



**GENERAL**  
CATALOGUE



movimiento continuo desde 1976  
*continuous movement since 1976*





**BOMBAS SACI S.A.** somos una empresa española **con más de 40 años de historia**. Fundada en Barcelona en el año 1976, en el año 2019 inauguramos nuestra nueva fábrica localizada en Granollers donde disponemos de unas instalaciones de más de 8.000 m<sup>2</sup> que junto a nuestra delegación de A Coruña y Levante, nos permiten garantizar y optimizar el nivel de servicio logístico y de producción a toda nuestra red de clientes nacionales e internacionales.

A día de hoy **estamos presentes en más de 85 países**. Nuestro reto es desarrollar y reforzar nuestra presencia alrededor del mundo, posicionando nuestra marca al más alto nivel en cuanto a Calidad, Innovación y Servicio.

Ponemos nuestro empeño en todo lo que hacemos priorizando el respeto por el medio ambiente, es por ello que la gran mayoría de **nuestros nuevos productos son de carácter Eco-Friendly**, optimizando el consumo energético para maximizar el respeto al medio ambiente.

Es también nuestra responsabilidad mantener como reto fundamental generar el mínimo impacto ambiental en emisiones tanto de nuestros productos como de nuestros procesos de fabricación. Es por ello que en nuestra nueva fábrica de Granollers hemos implementado un nuevo sistema de generación de energía renovable solar fotovoltaica, que nos permite prácticamente ser autosuficientes en cuanto a nuestras necesidades energéticas.



Saci  
pumps



**SACI PUMPS** is a Spanish company with **more than 40 years of history**. Founded in Barcelona in 1976, in 2019 we inaugurated our new factory located in Granollers where we have facilities of more than 8,000 m<sup>2</sup>, that together with our delegation from A Coruña and Levante, allow us to guarantee and optimize the level of logistic service and production to our entire network of national and international customers.

Today we are **present in more than 85 countries**. Our challenge is to develop and strengthen our presence around the world, positioning our brand at the highest level in terms of Quality, Innovation and Service.

We put our effort into everything we do, prioritizing respect for the environment. Which is why the vast majority of **our new products are Eco-Friendly**, optimizing energy consumption to maximize respect for the environment.

It is also our responsibility to maintain as a fundamental challenge to generate the minimum environmental impact in emissions of both our products and our manufacturing processes, that is why in our new Granollers Factory we have implemented a new renewable photovoltaic solar energy generation system, which it allows us to be practically self-sufficient in terms of our energy needs.



## INNOVACIÓN

innovation

ES

**Innovadores por excelencia.** Pioneros en innovaciones dentro de nuestro sector, algunos de los equipos que hemos desarrollado son actualmente referentes del mercado a nivel internacional, tanto en bombas como en sistemas de optimización de eficiencia energética y control de instalaciones, fabricando algunas de las novedades más revolucionarias del mercado como nuestra bomba MAGNUS para piscina pública a 1450 rpm, de hasta 15CV de potencia, nuestra gama de **variadores de frecuencia [e]MOTION, [e]JOY y [e]POOL**, o el sistema de control integral para bombas **SMART POOL, SMART PRO** e **EASYTRONIC**, transformándose en auténticos referentes a nivel internacional así como también por la mejora continua de toda nuestra gama de productos.

Todo ello desarrollado internamente a través de nuestro **propio departamento de I+D+I** un elemento fundamental en el espíritu de nuestra organización.

EN

**Innovators par excellence.** *Pioneers in innovations within our sector, some of the equipment we have developed are currently the international market benchmarks, both in pumps and in systems for optimizing energy efficiency and control of facilities, manufacturing some of the most revolutionary novelties on the market such as our MAGNUS pump for public swimming pool at 1450 rpm, up to 15HP of power, our range of **frequency inverters [e]MOTION, [e]JOY and [e]POOL**, or the integrated control system for pumps **SMART POOL, SMART PRO** and **EASYTRONIC**, transforming itself into true international benchmarks as well as also for the continuous improvement of our entire range of products.*

*All this developed internally through **our own R+D+I department**, a fundamental element in the spirit of our organization.*



## CALIDAD

quality

**La calidad de todos nuestros productos es uno de los valores clave de Bombas Saci.**

Todos los materiales y componentes que utilizamos son de la más alta calidad y de procedencia Nacional y Europea, aun así, hemos implementado un **estricto control automático de TEST** al final de todas nuestras líneas de producción, que **verifica el 100% de nuestra producción**, de manera que somos capaces de certificar el estándar de calidad más elevado y garantizar así la total satisfacción de nuestros clientes.

**The quality of all our products is one of the key values of Saci Pumps.**

*All the materials and components that we use are of the highest quality and of National and European origin, even so, we have implemented a **strict automatic TEST control** at the end of all our production lines, which **verifies 100% of our production**, of way we are able to certify the highest quality standard and thus guarantee the total satisfaction of our customers.*



## SERVICIO AL CLIENTE

customer service

La atención al cliente y su satisfacción es nuestro mayor objetivo.

Toda nuestra organización está orientada a **resolver de forma INMEDIATA cualquier consulta o solicitud** por parte de nuestros clientes.

**Fabricamos contra STOCK**, y disponemos de un muy elevado **nivel de existencias que cubre cerca del 90%** de nuestro catálogo para expedición inmediata.

Gracias a nuestros servicios Logísticos, el 92% de nuestras expediciones diarias nacionales se entregan en cualquier punto de la península ibérica en tan solo **24h desde la recepción del pedido**. En expediciones internacionales tenemos compromiso de expedición en tiempos similares a las expediciones nacionales.

*The customer service and your satisfaction is our main objective.*

*Our entire organization is oriented to solve **IMMEDIATELY any query or request** from our clients.*

*We manufacture against **STOCK**, and we have a very **high level of stock that covers about 90%** of our catalog for immediate shipment.*

*Thanks to our logistics services, 92% of our national daily shipments are delivered anywhere in the Iberian Peninsula in just **24 hours from the receipt of the order**. In international shipments we have shipment commitment in times similar to national shipments.*



## ECO-FRIENDLY

eco-friendly

**¡El respeto por el medio ambiente nos importa mucho!** Nuestro departamento de desarrollo trabaja cada día para reducir el consumo eléctrico de los equipos que fabricamos, y todo esto sin perder sus prestaciones. La nueva línea ECO-FRIENDLY que hemos desarrollado nos permiten **ahorrar hasta un 80% de energía**.

Estamos orientados en el respeto y preservación del medio ambiente y la sustentabilidad de las generaciones futuras, por eso invertimos todos los recursos necesarios para fabricar equipos **capaces de optimizar el consumo energético y reducir las emisiones de CO<sub>2</sub>**.

Además, estamos muy implicados en la reducción de emisiones y consumo energético en todos nuestros procesos internos como fabricación, logística y transformación.

***Respect for the environment matters a lot to us!** Our development department works every day to reduce the electrical consumption of the equipment we manufacture, and all this without losing its benefits. The new **ECO-FRIENDLY** line that we have developed allows us to **save up to 80% of energy**.*

*We are focused on respecting and preserving the environment and the sustainability of future generations, that's why we invest all the necessary resources to manufacture **equipment capable of optimizing energy consumption and reducing CO<sub>2</sub> emissions**.*

*In addition, we are very involved in the reduction of emissions and energy consumption in all our internal processes such as manufacturing, logistics and transformation.*

ES

EN

Certificado ES19/86640

SGS

El sistema de gestión de

## BOMBAS SACI, S.A.

C/ Can Muntanyola, 4-22, P.I. Palou Nord  
08401 Granollers (Barcelona)

ha sido evaluado y certificado en cuanto al cumplimiento de los requisitos de

## ISO 9001:2015

Para las siguientes actividades

**Diseño, montaje y comercialización de bombas hidráulicas,  
equipos de presión, sistemas de abastecimiento de agua  
contraincendios y sistemas de control y protección  
para equipos de bombeo.**

en/desde los siguientes emplazamientos

C/ Can Muntanyola, 4-22, P.I. Palou Nord - 08401 Granollers (Barcelona)

Este certificado es válido desde  
28 de octubre de 2020 hasta 17 de octubre de 2022.  
Edición 2. Certificado con SGS desde octubre de 2019.



Autorizado por

Dirección de Certificación

SGS INTERNATIONAL CERTIFICATION SERVICES IBERICA, S.A.U.  
C/Trespademe, 29. 28042 Madrid, España.  
t 34 91 313 8115 f 34 91 313 8102 www.sgs.com

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# SGS

Certificado ES19/86639

El sistema de gestión de

## BOMBAS SACI, S.A.

C/ Can Muntanyola, 4-22, P.I. Palou Nord  
08401 Granollers (Barcelona)

ha sido evaluado y certificado en cuanto al cumplimiento de los requisitos de

## ISO 14001:2015

Para las siguientes actividades

**Diseño, montaje y comercialización de bombas hidráulicas,  
equipos de presión, sistemas de abastecimiento de agua  
contra incendios y sistemas de control y protección  
para equipos de bombeo.**

en/desde los siguientes emplazamientos

C/ Can Muntanyola, 4-22, P.I. Palou Nord - 08401 Granollers (Barcelona)

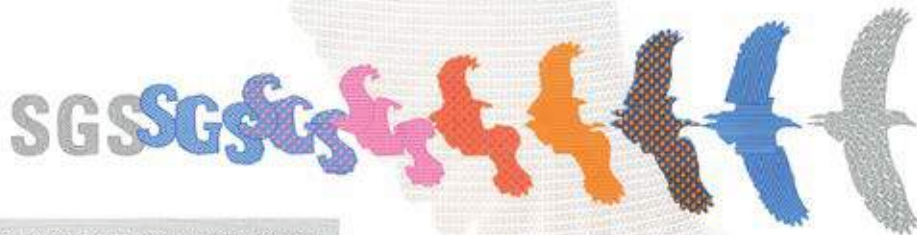
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Autorizado por

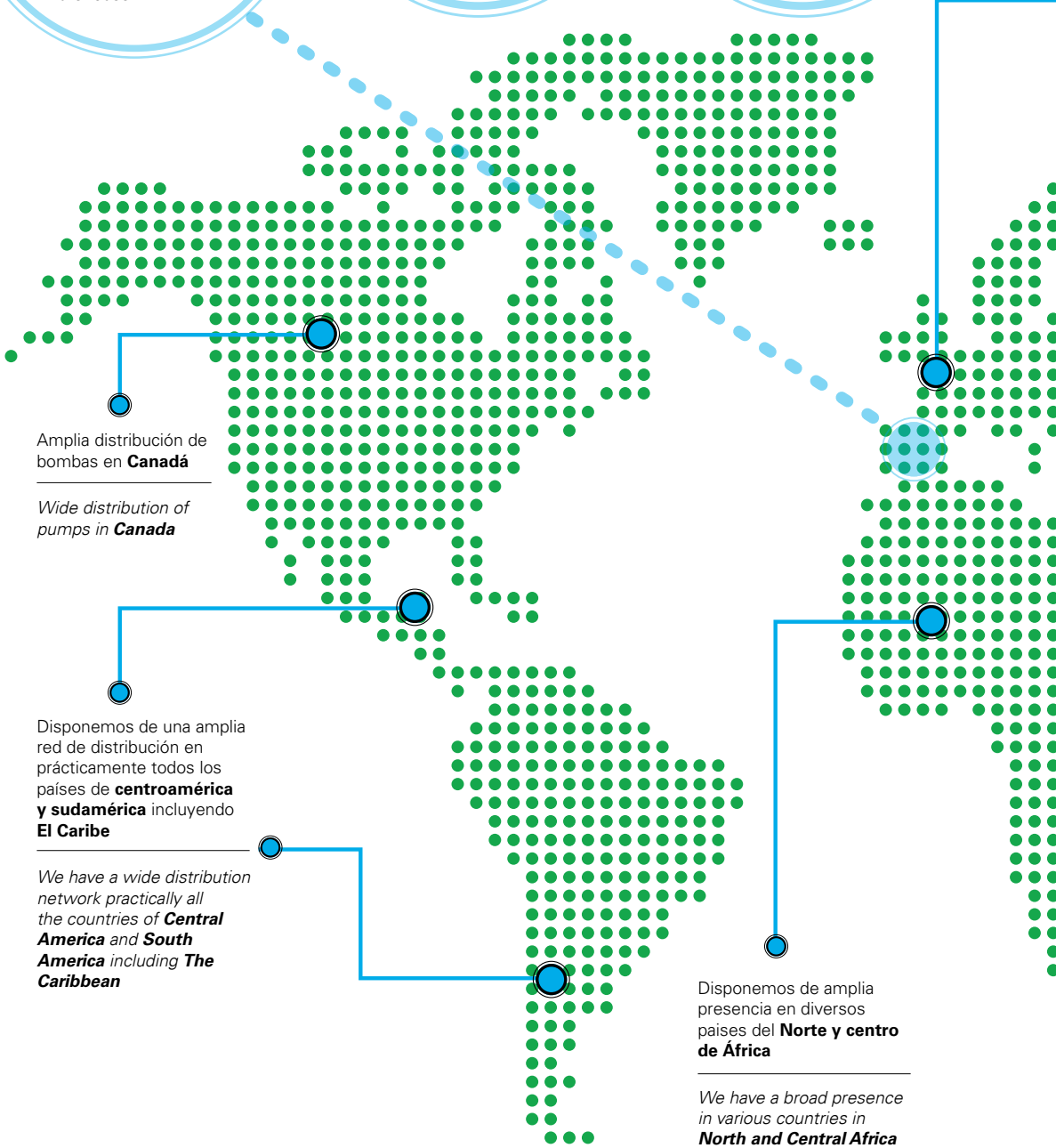
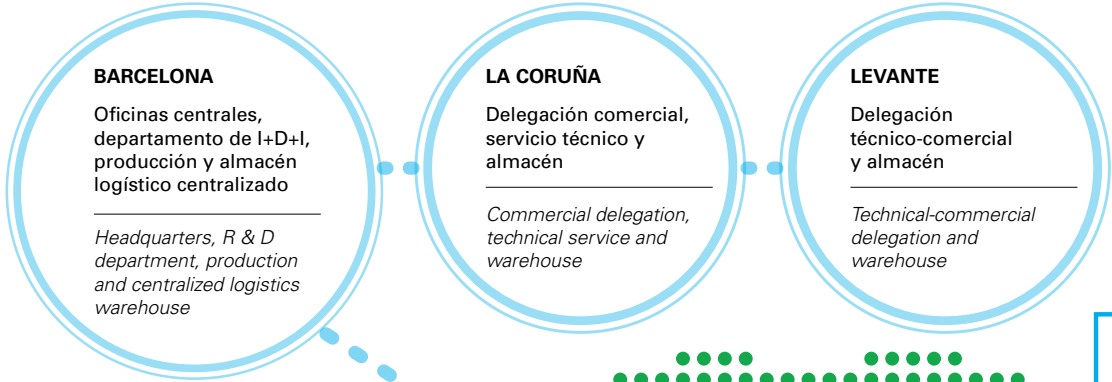
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ACTUALMENTE DISTRIBUIMOS EN MÁS DE 85 PAÍSES DE LOS 5 CONTINENTES  
 CURRENTLY WE DISTRIBUTE IN MORE THAN 85 COUNTRIES OF THE 5 CONTINENTS

Estamos presentes en todos los países de **Europa** mediante una amplísima red de distribución

*We are present in all **European** countries through a wide distribution network*

Podéis encontrar nuestros productos en prácticamente todos los países de **Oriente Medio**

*You can find our products in almost all the countries of the **Middle East***

En **Asia** tenemos presencia en multitud de países como **Rusia, Japón, Vietnam, Indonesia, y Tailandia**

*In **Asia** we have presence in many countries such as **Russia, Japan, Vietnam, Indonesia, and Thailand***

En **Australia** disponemos de varios distribuidores que cubren todo el país

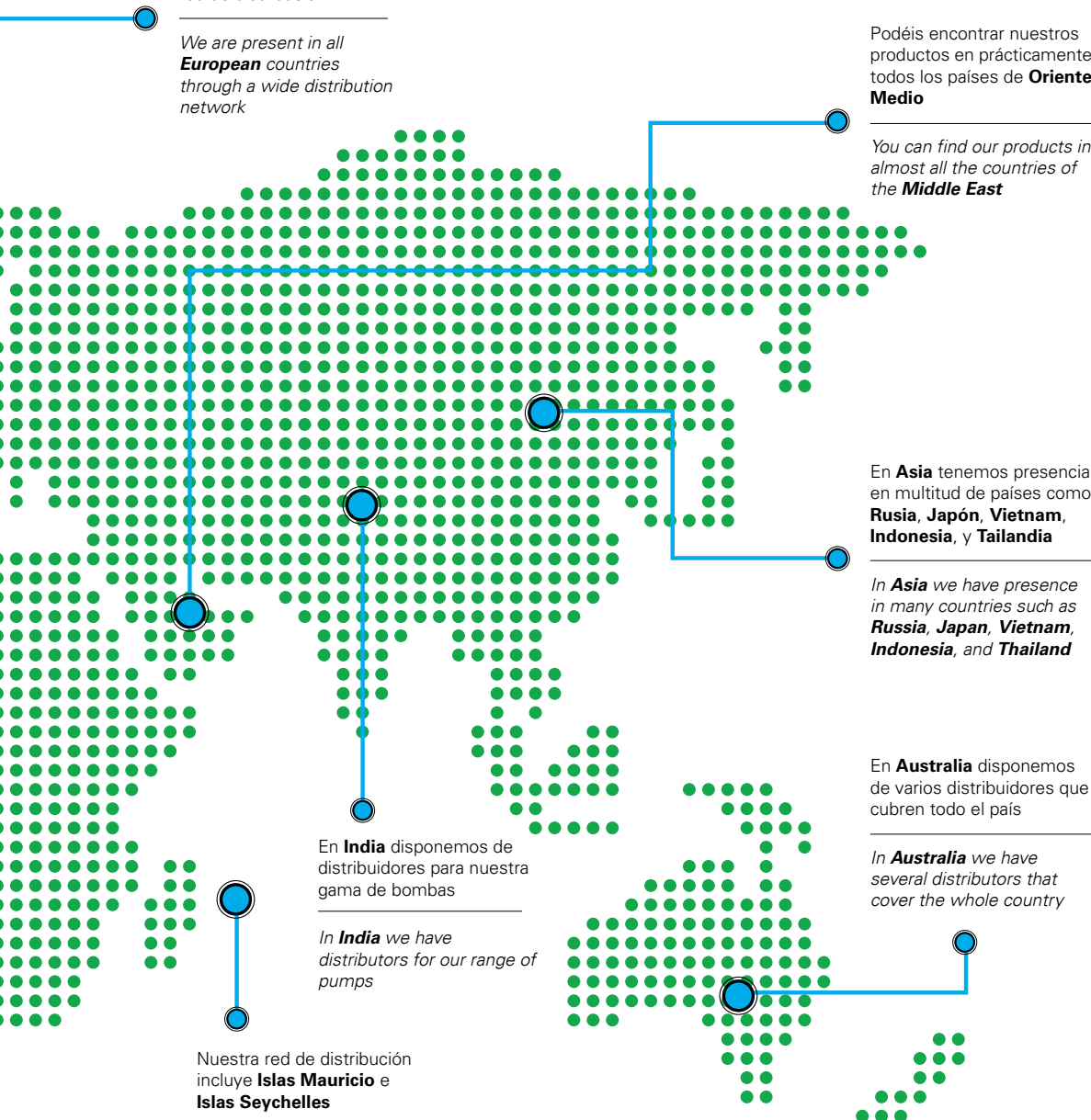
*In **Australia** we have several distributors that cover the whole country*

En **India** disponemos de distribuidores para nuestra gama de bombas

*In **India** we have distributors for our range of pumps*

Nuestra red de distribución incluye **Islas Mauricio e Islas Seychelles**

*Our distribution network includes **Mauritius and Seychelles***





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DOMESTIC USE

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BOOSTER SETS AND  
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OTHER USES AND  
ACCESSORIES



# PRESIÓN DOMÉSTICA

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**23**     **FUENTES Y ACUARIOS  
FOUNTAINS AND AQUARIUMS**

# SIGMA



Disponible con  
AUTOPRESS  
AUTOPRESS also  
available



### Aplicaciones:

Las bombas horizontales multicelulares de la serie SIGMA, por su elevado rendimiento y funcionamiento **EXTREMADAMENTE SILENCIOSO**, son especialmente indicadas para su uso en equipos de presión, tanto de uso domestico como industriales.

### Características Constructivas:

Turbinas y camisa en acero inoxidable AISI-304.  
Difusores en tecnopolímero inyectado con fibra de vidrio.  
Cuerpo aspiración e impulsión en fundición GG-20.  
Eje en acero inoxidable AISI-431.  
Cierre mecánico en cerámica grafito y AISI-304.

### Motor:

Motor asíncrono, cerrado de ventilación externa, apto para trabajo continuo. Grado de protección IP-55, aislamiento clase F (calentamiento "B").

**PUEDE SUMINISTRARSE BAJO DEMANDA CON EL REGULADOR DE PRESIÓN MODELO SACIPRESS O AUTOPRESS.**

**MAXIMA TEMPERATURA AGUA: +35° C**  
**MAXIMA TEMPERATURA AMBIENTE: +45° C**



### Applications:

The multistage horizontal pumps SIGMA series, through their high output and **EXTREMELY SILENT** operation, are particularly recommended for the use in domestic and industrial pressuring systems.

### Constructive characteristics:

Impellers and sleeve in stainless steel AISI-304.  
Shaft in stainless steel AISI- 431.  
Diffusers injected with fiber glass.  
Inlet and outlet body in cast iron GG-20.  
Mechanical seal in graphite ceramic and Stainless steel AISI-304.

### Motor:

Motor asíncrono, cerrado de ventilación externa, apto para trabajo continuo. Grado de protección IP-55, aislamiento clase F (calentamiento "B").

**CAN BE PROVIDED UNDER DEMAND WITH THE PRESSURE REGULATOR TYPE SACIPRESS OR AUTOPRESS.**

**MAXIMUM WATER TEMPERATURE: +35° C**  
**MAXIMUM AMBIENT TEMPERATURE: +45° C**



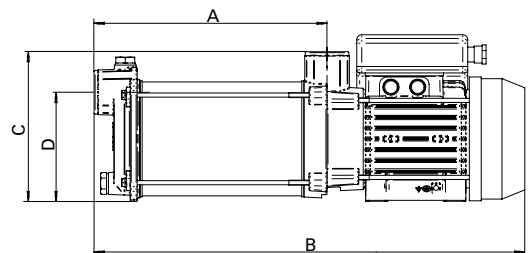
| Tipo<br>Type         | Potencia |      | "A"                           |            |            | Cond.<br>$\mu\text{f}$ | Caudal $\text{m}^3/\text{h}$ / Flow $\text{m}^3/\text{h}$ |     |    |     |    |     |    |     | Diámetro |      |      |
|----------------------|----------|------|-------------------------------|------------|------------|------------------------|---|-----|----|-----|----|-----|----|-----|----------|------|------|
|                      |          |      | II<br>230                     | III<br>230 | III<br>400 |                        | 0   | 0,5 | 1  | 1,5 | 2  | 2,5 | 3  | 3,5 | 4        | ASP. | IMP. |
|                      | HP       | KW   | Altura m.c.a. / Height w.c.m. |            |            |                        |   |     |    |     |    |     |    |     |          |      |      |
| <b>SIGMA 102 M</b>   | 0,33     | 0,25 | 2                             | -          | -          | 12                     | 23  | 22  | 20 | 18  | 15 | 12  | 9  | 6   | 1        | 1"   | 1"   |
| <b>SIGMA 103 M</b>   | 0,5      | 0,37 | 3,4                           | -          | -          | 12                     | 34  | 33  | 31 | 27  | 23 | 19  | 14 | 8   | 1,5      | 1"   | 1"   |
| <b>SIGMA 104 M</b>   | 0,75     | 0,55 | 4,2                           | -          | -          | 12                     | 45  | 44  | 41 | 36  | 31 | 25  | 18 | 11  | 2        | 1"   | 1"   |
| <b>SIGMA 105 M/T</b> | 1        | 0,75 | 4,7                           | 3,6        | 2,1        | 12                     | 56  | 55  | 51 | 45  | 38 | 31  | 23 | 14  | 3        | 1"   | 1"   |

| Tipo<br>Type         | Potencia |      | "A"                           |            |            | Cond.<br>$\mu\text{f}$ | Caudal $\text{m}^3/\text{h}$ / Flow $\text{m}^3/\text{h}$ |    |      |    |      |      |    | Diámetro |      |      |
|----------------------|----------|------|-------------------------------|------------|------------|------------------------|---|----|------|----|------|------|----|----------|------|------|
|                      |          |      | II<br>230                     | III<br>230 | III<br>400 |                        | 0   | 1  | 2    | 3  | 4    | 5    | 6  | 7        | ASP. | IMP. |
|                      | HP       | KW   | Altura m.c.a. / Height w.c.m. |            |            |                        |   |    |      |    |      |      |    |          |      |      |
| <b>SIGMA 202 M</b>   | 1        | 0,75 | 4,7                           | -          | -          | 12                     | 23  | 22 | 21   | 20 | 18   | 16   | 13 | 9        | 1"   | 1"   |
| <b>SIGMA 203 M</b>   | 1        | 0,75 | 5,5                           | -          | -          | 12                     | 34  | 33 | 32   | 30 | 27,5 | 24   | 19 | 13       | 1"   | 1"   |
| <b>SIGMA 204 M</b>   | 1,2      | 0,9  | 6,8                           | -          | -          | 20                     | 44  | 43 | 41,5 | 39 | 35,5 | 30,5 | 24 | 16,5     | 1"   | 1"   |
| <b>SIGMA 205 M/T</b> | 1,5      | 1,1  | 7,4                           | 5,2        | 3          | 20                     | 57  | 56 | 54   | 51 | 46,5 | 40   | 32 | 22       | 1"   | 1"   |

| Tipo<br>Type         | Potencia |     | "A"                           |            |            | Con.<br>$\mu\text{F}$ | Caudal $\text{m}^3/\text{h}$ / Flow $\text{m}^3/\text{h}$ |    |     |    |    |    |    |    | Diámetro |        |        |
|----------------------|----------|-----|-------------------------------|------------|------------|-----------------------|---|----|-----|----|----|----|----|----|----------|--------|--------|
|                      |          |     | II<br>230                     | III<br>230 | III<br>400 |                       | 1,5   | 3  | 4,5 | 6  | 7  | 8  | 9  | 10 | 11       | ASP.   | IMP.   |
|                      | HP       | KW  | Altura m.c.a. / Height w.c.m. |            |            |                       |   |    |     |    |    |    |    |    |          |        |        |
| <b>SIGMA 303 M/T</b> | 1,2      | 0,9 | 7,4                           | 6,3        | 3,8        | 40                    | 39  | 37 | 35  | 32 | 29 | 25 | 20 | 14 | 8        | 1 1/2" | 1 1/4" |
| <b>SIGMA 304 M/T</b> | 1,5      | 1,1 | 8,7                           | 7,1        | 4,1        | 40                    | 51  | 49 | 46  | 41 | 37 | 32 | 26 | 19 | 11       | 1 1/2" | 1 1/4" |
| <b>SIGMA 305 M/T</b> | 2        | 1,5 | 10,3                          | 7,9        | 4,5        | 40                    | 65  | 62 | 58  | 52 | 47 | 40 | 32 | 23 | 14       | 1 1/2" | 1 1/4" |
| <b>SIGMA 306 T</b>   | 3        | 2,2 | -                             | 8,2        | 4,8        | -                     | 77  | 75 | 70  | 63 | 56 | 48 | 39 | 28 | 16       | 1 1/2" | 1 1/4" |
| <b>SIGMA 307 T</b>   | 3        | 2,2 | -                             | 9,4        | 5,4        | -                     | 90  | 86 | 79  | 70 | 63 | 54 | 44 | 32 | 18       | 1 1/2" | 1 1/4" |

| Tipo<br>Type         | Potencia |     | "A"                           |            |            | Con.<br>$\mu\text{F}$ | Caudal $\text{m}^3/\text{h}$ / Flow $\text{m}^3/\text{h}$ |      |     |    |    |      |    |    | Diámetro |        |        |
|----------------------|----------|-----|-------------------------------|------------|------------|-----------------------|---|------|-----|----|----|------|----|----|----------|--------|--------|
|                      |          |     | II<br>230                     | III<br>230 | III<br>400 |                       | 1,5   | 3    | 4,5 | 6  | 9  | 12   | 15 | 18 | 21       | ASP.   | IMP.   |
|                      | HP       | KW  | Altura m.c.a. / Height w.c.m. |            |            |                       |   |      |     |    |    |      |    |    |          |        |        |
| <b>SIGMA 403 M/T</b> | 2        | 1,5 | 9,3                           | 7,9        | 4,5        | 40                    | 35  | 34,5 | 34  | 33 | 31 | 27   | 23 | 18 | 13       | 1 1/2" | 1 1/4" |
| <b>SIGMA 404 T</b>   | 3        | 2,2 | -                             | 8,2        | 4,8        | -                     | 44  | 43   | 42  | 41 | 37 | 32,5 | 27 | 21 | 14       | 1 1/2" | 1 1/4" |

| Tipo / Type      | A   | B   | C   | D   |
|------------------|-----|-----|-----|-----|
| <b>SIGMA 102</b> | 185 | 385 | 183 | 110 |
| <b>SIGMA 103</b> | 185 | 385 |     |     |
| <b>SIGMA 104</b> | 210 | 410 |     |     |
| <b>SIGMA 105</b> | 235 | 435 | 183 | 127 |
| <b>SIGMA 202</b> | 198 | 423 |     |     |
| <b>SIGMA 203</b> | 198 | 423 |     |     |
| <b>SIGMA 204</b> | 224 | 449 |     |     |
| <b>SIGMA 205</b> | 250 | 475 |     |     |
| <b>SIGMA 303</b> | 195 | 465 | 193 | 147 |
| <b>SIGMA 304</b> | 220 | 490 |     |     |
| <b>SIGMA 305</b> | 245 | 515 |     |     |
| <b>SIGMA 306</b> | 270 | 540 |     |     |
| <b>SIGMA 307</b> | 295 | 565 | 193 | 147 |
| <b>SIGMA 403</b> | 217 | 492 |     |     |
| <b>SIGMA 404</b> | 256 | 531 |     |     |



# JET



## ASPIRACIÓN MÁXIMA 9 METROS.

### Aplicaciones:

Bomba autoaspirante con óptima capacidad de aspiración incluso en presencia de gas en el agua. Particularmente indicada para el empleo en grupos de presión domésticos con aspiración negativa, pequeños riegos y jardines, etc. Para aspiraciones superiores a 4 mts. instalar tuberías de aspiración de mayor diámetro al indicado.

### Características constructivas:

Cuerpo bomba y soporte motor en fundición con tratamiento anticorrosivo incluso en la superficie interna. Turbinas, difusor y tubo Venturi en tecnopolímero-A, eje en acero inoxidable y cierre mecánico en cerámica carbón.

### Motor:

IE3 motor asíncrono, cerrado de ventilación externa, apto para trabajo continuo. Grado de protección IP-55, aislamiento clase F (calentamiento "B"). Protección termo-amperimétrica incorporada y condensador fijo en las versiones monofásicas. Protección IP-44 aislamiento tipo F.



## MAXIMUM SUCTION HEIGHT 9 METERS.

### Applications:

A self-priming pump with optimal suction capacity even when there is gas in the water. Especially recommended for use in domestic pressure units with negative suction, small irrigation installations and gardens, etc. For suctions of over 4 metres, install suction piping of a larger diameter than that indicated.

### Constructive characteristics:

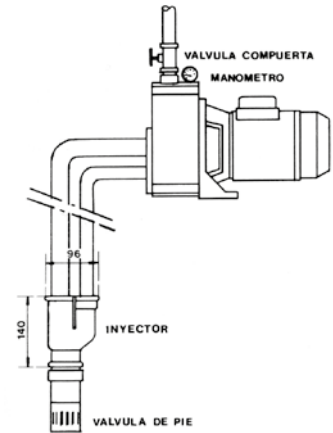
Pump body and motor support in cast iron with rust-proofing even on the interior surface. Impellers, diffuser and Venturi in techno polymer-A, shaft in stainless steel and mechanical seal in carbon ceramic.

### Motor:

IE3 asynchronous with external ventilation. Built-in thermo-amperimetric protection and fixed capacitor in the single phase versions. IP-44 protection, type F insulation.

| Tipo<br>Type | Con.<br>µF | Potencia |      | "A"       |            |            | Caudal m <sup>3</sup> /h / Flow m <sup>3</sup> /h |     |     |     |      |     |    |    |      |        | Diámetro |  |
|--------------|------------|----------|------|-----------|------------|------------|---|-----|-----|-----|------|-----|----|----|------|--------|----------|--|
|              |            | HP       | KW   | II<br>230 | III<br>230 | III<br>400 | 0   | 1,2 | 1,8 | 2,4 | 3    | 3,6 | 6  | 9  | 10,5 | ASP.   | IMP.     |  |
|              |            |          |      |           |            |            | Altura m.c.a. / Height w.c.m.                     |     |     |     |      |     |    |    |      |        |          |  |
| JET 82 M     | 12,5       | 0,8      | 0,59 | 3,8       | -          | -          | 47  | 34  | 30  | 26  | 23,5 | 21  |    |    |      | 1"     | 1"       |  |
| JET 82 T     | -          |          |      | -         | 2,8        | 1,6        |   |     |     |     |      |     |    |    |      |        |          |  |
| JET 102 M    | 16         | 1        | 0,75 | 5,1       | -          | -          | 54  | 41  | 37  | 33  | 29   | 26  |    |    |      | 1"     | 1"       |  |
| JET 102 T    | -          |          |      | -         | 3,3        | 1,9        |   |     |     |     |      |     |    |    |      |        |          |  |
| JET 15 M     | 25         | 1,5      | 1,1  | 7,2       | -          | -          | 61  | 57  | 52  | 50  | 46   | 43  | 39 |    |      | 1 1/4" | 1"       |  |
| JET 15 T     | -          |          |      | -         | 5,2        | 3          |   |     |     |     |      |     |    |    |      |        |          |  |
| JET 20 M     | 40         | 2        | 1,5  | 9         | -          | -          | 41  | 39  | 38  | 37  | 36   | 33  | 29 | 24 | 21   | 1 1/2" | 1 1/4"   |  |
| JET 25 M     | 40         |          |      | 10        | -          | -          |   |     |     |     |      |     |    |    |      |        |          |  |
| JET 25 T     | -          | 2,5      | 1,85 | -         | 6,9        | 4          | 62  | 59  | 57  | 54  | 51   | 42  |    |    |      | 1 1/4" | 1"       |  |

# AP



### Aplicaciones:

Bomba centrífuga autoaspirante para aspiración profunda hasta 27 metros, por mediación de un inyector. Idónea para pozos de 4" o mayores.

### Características constructivas:

Cuerpo y soporte en fundición gris, con tratamiento anticorrosivo incluso en su superficie interna, turbinas y difusor interno Venturi en tecnopolímero-A, eje en acero inoxidable y cierre mecánico en cerámica-carbón. El modelo AP 10.2 es monoturbina y los modelos AP 15 y AP 25 biturbina. Temperatura del líquido a bombear de 0° C a +40° C. Máxima temperatura ambiente +40° C. Máxima presión de trabajo 8 Kg./cm<sup>2</sup>.

### Motor:

IE3 asíncrono, cerrado y de ventilación externa. Protección termo-amperimétrica incorporada y condensador fijo en la versión monofásica. Grado de protección IP-44, según normativa CEI a 2.850 r.p.m., 50 Hz.



### Applications:

A self-priming pump for deep suction up to 27 metres by means of an injector. Ideal for 4" wells or larger.

### Constructive characteristics:

Pump body and motor support in grey cast iron with rust-proofing even on the interior surface, impellers diffuser, and Venturi in technopolymer-A. Shaft in stainless steel and mechanical seal in carbon ceramic. The AP 10.2 is single impeller and the AP 15 and AP 25 are double impeller.

Temperature of the liquid to be pumped from 0° C to +40° C. Maximum ambient temperature +40° C. Maximum working pressure 8 Kg/cm<sup>2</sup>.

### Motor:

IE3 sealed asynchronous with external ventilation. Built-in thermo-amperimetric protection and fixed capacitor in the single phase versions. IP-44 protection according to CEI standard at 2,850 rpm, 50 Hz.

| Tipo<br>Type | Cond.<br>µF | Potencia |      | "A"       |            |            | Altura<br>de<br>ASP. | Altura m.c.a. / Height w.c.m.                     |     |     |     |     | Diámetro  |      |
|--------------|-------------|----------|------|-----------|------------|------------|----------------------|---|-----|-----|-----|-----|-----------|------|
|              |             | HP       | KW   | II<br>230 | III<br>230 | III<br>400 |                      | 20  | 30  | 40  | 50  | 60  | ASP.      | IMP. |
|              |             |          |      |           |            |            |                      | Caudal m <sup>3</sup> /h / Flow m <sup>3</sup> /h |     |     |     |     |           |      |
| AP 10.2 M    | 16          | 1        | 0,75 | 3,8       | -          | -          | 15                   | 1   | 0,5 | 0,1 |     |     |           |      |
| AP 10.2 T    | -           |          |      | -         | 2,6        | 1,5        | 18                   | 0,8   | 0,3 |     |     |     | 1 1/4"-1" | 1"   |
| AP 15 M      | 31,5        | 1,5      | 1,1  | 7         | -          | -          | 21                   |   | 1,8 | 1,4 | 0,9 | 0,5 |           |      |
| AP 15 T      | -           |          |      | -         | 4,7        | 2,7        | 24                   |   | 1,7 | 1,3 | 0,8 | 0,4 | 1 1/4"-1" | 1"   |
|              |             |          |      | 27        |            | 1,6        | 1,1                  | 0,7   | 0,3 |     |     |     |           |      |
| AP 25 M      | 40          | 2,5      | 1,8  | 8,3       | -          | -          | 21                   |   | 1,7 | 1,2 | 0,7 |     |           |      |
| AP 25 T      | -           |          |      | -         | 5,6        | 3,2        | 24                   |   | 1,6 | 1   | 0,6 |     | 1 1/4"-1" | 1"   |
|              |             |          |      | 27        |            | 1,4        | 0,9                  | 0,5   |     |     |     |     |           |      |

# PE



### Aplicaciones:

Las electrobombas periféricas monobloc serie PE, son particularmente indicadas para servicios en los que sea necesario una presión elevada y un caudal limitado. Son también indicadas para pequeños equipos de presión. El agua debe estar libre de arena.

### Características Constructivas:

Cuerpo y soporte bomba-motor en fundición. Turbina en bronce. Eje de acero inoxidable, sello mecánico en carbono de silicio.

**TEMPERATURA MAXIMA DEL AGUA:** 70° C.

### Motor:

Motor eléctrico cerrado de ventilación externa. La versión monofásica incorpora protector térmico y condensador permanente. Grado de protección IP-44. Aislamiento Tipo B.



### Applications:

The PE series peripheral single block electropumps are particularly recommended for services requiring a high pressure and limited flow. They are also recommended for small pressure units. The water must be sand-free.

### Constructive characteristics:

Pump body and motor support in cast iron. Impeller in bronze. Stainless steel shaft and mechanical seal in silicon carbide.

**MAXIMUM WATER TEMPERATURE:** 70° C.

### Motor:

Sealed electric with external ventilation. The single phase version includes a thermal protector and permanent capacitor. IP-44 protection. Type B insulation.

| Tipo<br>Type | Con.<br>µF | Potencia |      | "A"       |            |            | Caudal m³/h / Flow m³/h       |     |     |     |     |     |    |     | Diámetro |          |    |
|--------------|------------|----------|------|-----------|------------|------------|-------------------------------|-----|-----|-----|-----|-----|----|-----|----------|----------|----|
|              |            | HP       | KW   | II<br>230 | III<br>230 | III<br>400 | 0                             | 0,6 | 0,7 | 0,9 | 1,2 | 1,5 | 2  | 2,4 | 3        | ASP.IMP. |    |
|              |            |          |      |           |            |            | Altura m.c.a. / Height w.c.m. |     |     |     |     |     |    |     |          |          |    |
| PE 38-M      | 8          | 0,50     | 0,37 | 2,9       | -          | -          | 42                            | 33  | 30  | 27  | 23  | 18  | 11 | 2,5 |          | 1"       | 1" |
| PE 60-M      | 20         |          |      | 5,2       | -          | -          | 65                            | 56  | 53  | 51  | 48  | 44  | 37 | 31  | 18       | 1"       | 1" |
| PE 60-T      | -          | 1        | 0,75 | -         | 3,4        | 2,2        |                               |     |     |     |     |     |    |     |          |          |    |

# DIVERTECH



## Características constructivas:

**Bomba fabricada en acero inoxidable AISI-304.** Motor eléctrico refrigerado por el agua circulada. Camisa exterior fabricada en acero inoxidable AISI-304L para prevenir posibles corrosiones de la soldadura. **Doble sello mecánico** con cámara de aceite atóxico intermedia. **Condensador externo de clase B**, que garantiza 3 veces más resistencia que un condensador standard. Turbinas y difusores fabricados en tecnopolímero. Conector de cable H07RN-F desmontable. **Interruptor de nivel desmontable** (se incluye el kit para desmontarlo).

## Motor:

- Protección IP68.
- Aislamiento clase F.
- Temperatura máxima del líquido: +35°C
- Máximos arranques por hora: 40
- Inmersión máxima: 40 metros
- Todas las versiones monofásicas excepto el modelo DIVERTECH HF 204 M incluyen protección contra sobre consumo.



## Constructive features:

**Pump made of AISI-304 stainless steel.** Electric motor cooled by circulated water. Outer jacket made of AISI-304L stainless steel to prevent possible weld corrosion. **Double mechanical seal** with intermediate



*non-toxic oil chamber. **Class B external capacitor**, which guarantees 3 times more resistance than a standard capacitor. Turbines and diffusers made of technopolymer. Detachable H07RN-F cable connector. **Detachable level switch** (removal kit included).*

## Motor:

- IP68 protection.
- Class F insulation.
- Maximum liquid temperature: + 35°C
- Maximum starts per hour: 40
- Maximum immersion: 40 meters
- All single-phase versions except the DIVERTECH HF 204 M model include over-consumption protection.

| Tipo<br>Type                  | Potencia<br>Power |      | A          |             | Caudal m <sup>3</sup> /h / Flow m <sup>3</sup> /h |      |      |      |      |      |      |      |
|-------------------------------|-------------------|------|------------|-------------|---|------|------|------|------|------|------|------|
|                               | Kw                | HP   | 230V<br>II | 400V<br>III | 0   | 1,2  | 2,4  | 3,6  | 4,8  | 6    | 7,2  | 8,4  |
| Altura m.c.a. / Height w.c.m. |                   |      |            |             |   |      |      |      |      |      |      |      |
| <b>DIVERTECH 63 M Aut</b>     | 0,6               | 0,45 | 3,7        | -           | 35,5  | 30   | 23,5 | 14,4 | 5,3  |      |      |      |
| <b>DIVERTECH 103 M Aut</b>    | 1                 | 0,75 | 5,7        | -           | 58,1  | 50,1 | 39   | 24,2 | 8,2  |      |      |      |
| <b>DIVERTECH 103 T</b>        | 1                 | 0,75 | -          | 2,2         |   |      |      |      |      |      |      |      |
| <b>DIVERTECH 153 M Aut</b>    | 1,5               | 1,1  | 7,6        | -           | 68,4  | 68,4 | 55,7 | 34   | 10,9 |      |      |      |
| <b>DIVERTECH 153 T</b>        | 1,5               | 1,1  | -          | 2,9         |   |      |      |      |      |      |      |      |
| <b>DIVERTECH 154 M Aut</b>    | 1,5               | 1,1  | 8          | -           | 61,5  | 59,1 | 54,2 | 49,3 | 40,9 | 32,2 | 23,3 | 13,8 |
| <b>DIVERTECH 154 T</b>        | 1,5               | 1,1  | -          | 3           |   |      |      |      |      |      |      |      |
| <b>DIVERTECH 204 M Aut</b>    | 2                 | 1,5  | 9,4        | -           | 74,4  | 70,2 | 65,4 | 58   | 49   | 38,9 | 28   | 16,3 |
| <b>DIVERTECH 204 T</b>        | 2                 | 1,5  | -          | 3,7         |   |      |      |      |      |      |      |      |

# DIVERMATIC



### Características constructivas:

**Bomba sumergible de 6" fabricada en tecnopolímero, con eje y rejilla en acero inoxidable AISI-304.**

La bomba es apta para presurización de viviendas, riego de jardines o llenado automático de depósitos. En su interior incluye un presostato electrónico para la marcha y paro automático de la bomba.

Incluye además un sensor de flujo de agua en su interior que evita el funcionamiento en seco, así como una válvula de retención en la impulsión.

### Motor:

- Conexión: 1"
- Profundidad máxima: 12 metros
- Temperatura del agua: de 0°C a 35°C
- Motor IP68. Aislamiento clase F
- Se suministra con 15 metros de cable.



### Constructive features:

**6" submersible pump made of technopolymer, with shaft and strainer in AISI-304 stainless steel.** The pump is suitable for pressurizing homes, watering gardens or automatic filling of tanks. Inside it includes an electronic pressure switch for the automatic start and stop of the pump.

It also includes a water flow sensor inside that prevents dry running, as well as a check valve on drive.

### Motor:

- Discharge connection: 1"
- Maximum depth: 12 meters
- Water temperature: from 0°C to 35°C
- IP68 motor. Class F insulation
- Supplied with 15 meters of cable.

| Tipo<br>Type            | Potencia<br>Power |      | A<br>230V<br>II | Caudal m <sup>3</sup> /h / Flow m <sup>3</sup> /h |     |      |      |      |      |     |     |
|-------------------------|-------------------|------|-----------------|---|-----|------|------|------|------|-----|-----|
|                         | HP                | Kw   |                 | 0   | 0,9 | 1,8  | 2,7  | 3,6  | 4,5  | 5,1 | 5,4 |
|                         |                   |      |                 | Altura m.c.a. / Height w.c.m.                     |     |      |      |      |      |     |     |
| <b>DIVERMATIC 100 M</b> | 1                 | 0,75 | 4,8             | 46  | 41  | 35,5 | 29,2 | 21,8 | 13,5 | 7,8 | 3,5 |

# NOVA FEKA



## Aplicaciones:

**SERIE NOVA - FEKA:** Electrobomba sumergible doméstica que por su forma compacta y manejable es ideal para su uso fijo y portátil. Bomba idónea para achique de filtraciones en bodegas, garajes, sótanos, vaciado de piscinas, etc.

**SERIE NOVA SALT:** Electrobomba sumergible doméstica con interruptor de nivel incluido, apta para el trabajo con agua salada, lo cual la hace idónea para achique de salmuera, piscinas de agua salada, etc...

**NOVABOX:** Estación elevadora automática de aguas ligeramente cargadas domésticas procedentes de bañeras, lavabos, duchas y lavaderos situados en semisótanos o bien por debajo del nivel de la red de alcantarillado. Está construido por una electrobomba **Nova 300 M aut.** con 5mts. de cable y enchufe instalado en un contenedor de tecnopolímero con una capacidad de 30 litros y una válvula antirretorno en la impulsión. La estación de elevación se entrega con una bomba ya ensamblada y lista para su funcionamiento totalmente automático.

## Características constructivas:

Cuerpo bomba, turbina y filtro de aspiración en tecnopolímero hidrorresistente, tornillería y eje en acero inoxidable, triple cierre mecánico y anillo separador con cámara de aire.

## Motor:

Sumergible, asíncrono. El estator está dentro de una cámara hermética de acero inoxidable. Protección termo-amperimétrica y condensador fijo incorporado en versiones monofásicas. Grado de protección IP-68. Aislamiento clase F. Incluye 5 metros de cable.

**TEMPERATURA MÁXIMA DEL AGUA:** 40° C.

**INMERSION MÁXIMA:** 7 mts.

## Applications:

**NOVA - FEKA SERIES:** A submersible domestic electropump, whose compact, easy-to-handle form is ideal for its fixed and portable use. The ideal pump for baling filtrations in cellars, garages, basements, emptying pools, etc.

**FEKA NOVA SALT:** Domestic submersible pump with float switch included, suitable for work with salt water, which makes it ideal for drainage of brine, salt water pools, etc...

**NOVABOX:** An automatic raising station for lightly loaded household waters from baths, washbasins, showers and washers in semi basements or below the drainage network. It comprises a **Nova 300 M aut.** Electropump, with 5 metres of cable and a switch installed in a 30 litre techno polymer container and a non return valve in the drive. The raising station is delivered with a pump already assembled and ready for fully automated working.

## Constructive characteristics:

Pump body, impeller and suction filter in water-resistant techno polymer, bolts and shaft in stainless steel. Triple mechanical seal and separator ring with air chamber.

## Motor:

Submersible, asynchronous. The stator is inside a sealed chamber in stainless steel. Thermo-amperimetric protection and fixed capacitor built in to single phase versions. IP-68 protection. Class F insulation.

Includes 5 meters of electric wire.

**MAXIMUM WATER TEMPERATURE:** 40° C.

**MAXIMUM IMMERSION:** 7 metres.

| Tipo<br>Type                               | Cond.<br>µF | Potencia |      | "A"       |            | Caudal m³/h / Flow m³/h       |     |     |     |     |     |     |     |     |     |     | Diámetro |                 |
|--|-------------|----------|------|-----------|------------|-------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------|-----------------|
|  |             | HP       | KW   | II<br>230 | III<br>400 | 0                             | 1,2 | 2,4 | 3,6 | 4,5 | 6   | 7,5 | 9   | 12  | 15  | 16  | IMP.     | Paso<br>Sólido  |
|  |             |          |      |           |            | Altura m.c.a. / Height w.c.m. |     |     |     |     |     |     |     |     |     |     |          |                 |
| NOVA 180 M<br>NOVA 180 M Aut               | 5           | 0,3      | 0,22 | 0,9       | -          | 4,8                           | 4,2 | 3,5 | 2,4 | 1,4 |     |     |     |     |     |     | 1"       | 5 mm.           |
| NOVA 200 M<br>NOVA 300 M Aut               | 8           | 0,3      | 0,22 | 1,5       | -          | 6,8                           | 6,7 | 6   | 5,6 | 5,1 | 4,6 | 4   | 3,4 | 2,2 |     |     | 1 1/4"   | 5 mm.<br>10 mm. |
| NOVA 600 M<br>NOVA 600 M Aut<br>NOVA 600 T | 14<br>-     | 0,75     | 0,55 | 3,4<br>-  | -<br>1,6   | 10,2                          | 9,5 | 9,1 | 8,7 | 8,3 | 7,8 | 7,2 | 6,6 | 5   | 3,1 | 2,2 | 1 1/4"   | 10 mm.          |
| FEKA 600 M<br>FEKA 600 M Aut<br>FEKA 600 T | 14<br>-     | 0,75     | 0,55 | 4,3<br>-  | -<br>1,7   | 7,5                           | 7   | 6,6 | 6,3 | 6,1 | 5,7 | 5,4 | 4,9 | 4,1 | 2,8 | 2,2 | 1 1/4"   | 25 mm.          |
| NOVA SALT M Aut                            | 8           | 0,3      | 0,22 | 1,3       | -          | 6                             | 5,2 | 4,3 | 3,4 | 2,8 | 1,7 | 0,6 |     |     |     |     | 1 1/4"   | 5 mm.           |

# MINI DRX



Kit aspiración bajo pedido  
*Suction kit on demand*



MINI DRX M Aut



MINI DRX M Autofix



### Aplicaciones:

Bomba sumergible para trabajo con agua limpia, ideal para el empleo en sistemas de agua pluvial y redes de riego, para bombeo de agua desde depósitos, estanques y pozos.

### Características Constructivas:

Cuerpo bomba, turbinas y difusores en polipropileno-poliétileno, juntas tóricas en NBR, carcasa motor en hierro, eje motor y casquillo cerámico en acero inoxidable AISI-410. **Está equipada de un interruptor de flotador** para el arranque y parada automática de la bomba (modelo Aut) o con flotador fijo (modelo Autofix), **y válvula de retención en la impulsión.**

### Motor:

Monofásico 230V/50Hz, con condensador y protección térmica incorporado. Grado de protección IP68 y aislamiento clase F.

**Equipa 15 metros de cable eléctrico.**

**Inmersión máxima: 10 metros.**



### Applications:

*Submersible pump capable to work with clean water, ideal for use in storm water systems and irrigation networks, pumping water from tanks, ponds, wells, and in places where high pressure is required.*

### Constructive characteristics:

*Pump body, turbines and diffusers in polypropylene-polyethylene, NBR O-rings, motor casing in cast iron, motor shaft and ceramic ferrule in stainless steel AISI-410. **It is equipped with a float switch** for automatic start and stop the pump (Aut type) or fixed float (Autfix type). **Includes check valve on the discharge.***

### Motor:

*230V/50Hz Single phase with capacitor and thermal protection built.*

*IP68 protection and Class F isolation.*

**It comes equipped with 15 meters of electrical cable.**

**Maximum immersion: 10 meters.**

| Tipo<br><i>Type</i> | Potencia |      | "A"<br><br>II<br>230 V | Caudal m <sup>3</sup> /h / Flow m <sup>3</sup> /h |     |     |     |     |     |     |         | Diámetro<br><i>Diameter</i> |
|---------------------|----------|------|------------------------|---|-----|-----|-----|-----|-----|-----|---------|-----------------------------|
|                     | HP       | KW   |                        | 0   | 1,5 | 3   | 4,5 | 6   | 7,5 | 9   |         |                             |
|                     |          |      |                        | Altura m.c.a. / Height w.c.m.                     |     |     |     |     |     |     |         |                             |
| MINI DRX M          |          |      |                        |   |     |     |     |     |     |     |         |                             |
| MINI DRX M Aut      | 0,33     | 0,25 | 2                      | 9   | 8,3 | 7,6 | 6,8 | 5,7 | 4,5 | 2,7 | 1-11/4" |                             |
| MINI DRX M Autofix  |          |      |                        |   |     |     |     |     |     |     |         |                             |



# PUMP



PUMP 400 - 1150



PUMP 700 - 1200 - 2800



### Aplicaciones:

Electrobomba sumergida para pequeñas aplicaciones como pueden ser: Acuarios, fuentes, surtidores, refrigeración de máquinas de corte, etc...

Bombas aptas para trabajos con agua salada. Ideales para uso intermitente o bien continuo provistas de regulación de caudal, para adaptarlas a diferentes aplicaciones y usos.

**Voltaje 230 V, 50 Hz.**

### Serie PUMP 400-1150:

Excepcionales prestaciones hidráulicas con bajo consumo eléctrico. Puede trabajar con muy pocos centímetros de nivel de agua.

### Serie PUMP 700-1200-2800:

**Incluyen cartucho filtrante en la aspiración.** Pueden trabajar sin estar sumergidas mediante el uso de los racores proporcionados de serie.

### Características constructivas:

Turbina patentada uni-direccional y compacta, amortiguador de gran poder de absorción, construidos con materiales anticorrosivos y resistentes.



### Applications:

*Submersible electropumps for small applications, such as: aquariums, fountains, jets, cooling cutting machines, etc.*

*Pumps suitable for work with salt water. Ideal for intermittent or continuous use. Adjustable water flow.*

**Voltage 230 V, 50 Hz.**

### PUMP 400-1150 Series:

*Exceptional hydraulic performance with low energy consumption.*

### PUMP 700-1200-2800 Series:

*Includes filter sponge. Equipped with tube connectors for non submerged use.*

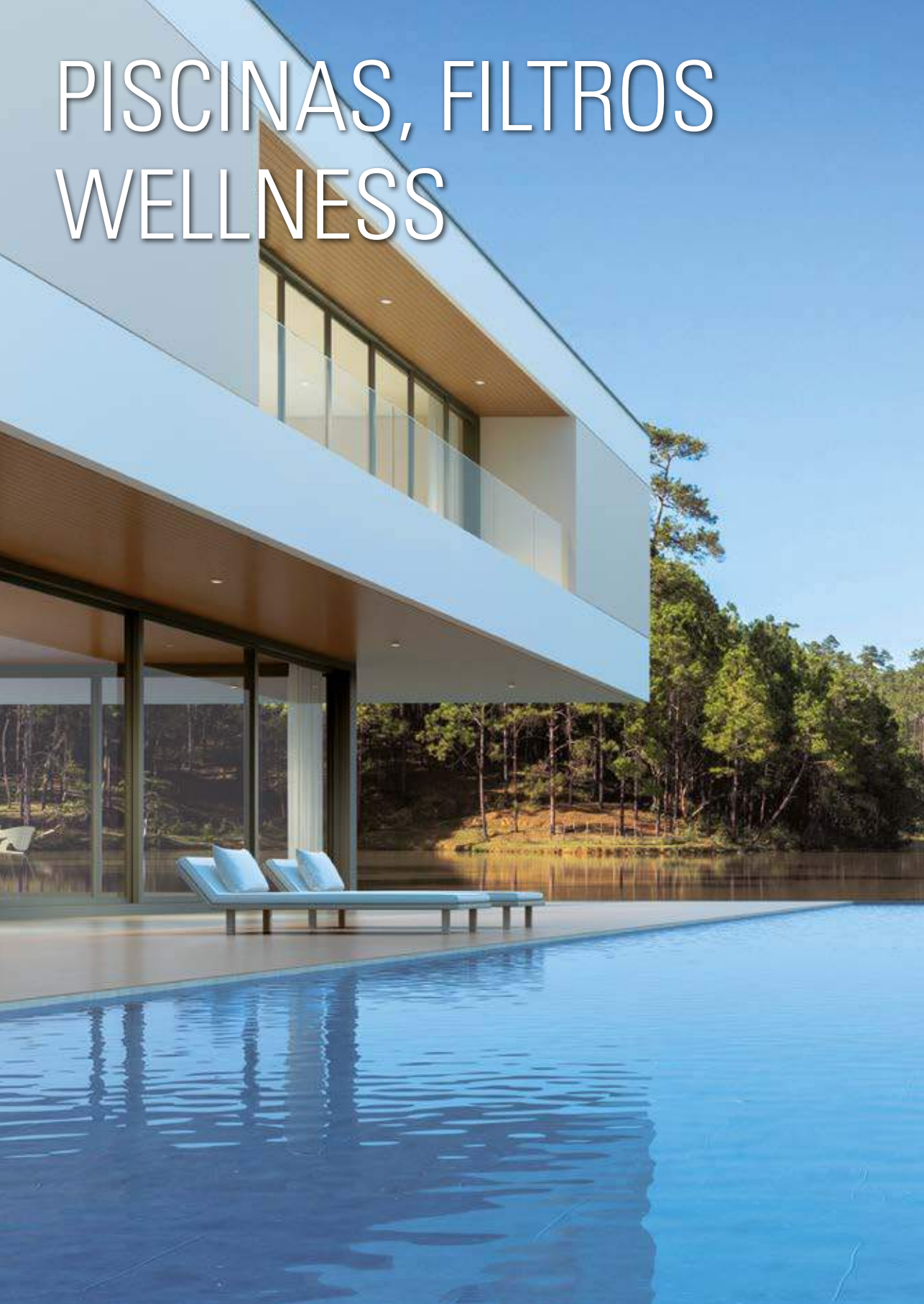
### Construction:

*Single direction, compact patented impeller, highly absorbent damper, built using rustproof materials.*

| Tipo<br>Type | ALTURA MÁXIMA<br>MAX. HEIGHT | CAUDAL MÁXIMO<br>MAX. FLOW | CONSUMO WATT<br>CONSUMPTION W. |
|--------------|------------------------------|----------------------------|--------------------------------|
| PUMP 400     | 70 cm                        | 400 l/h                    | 4                              |
| PUMP 1150    | 70 cm                        | 1.150 l/h.                 | 7                              |

| Tipo<br>Type | ALTURA MÁX.<br>MAX. HEIGHT | CAUDAL MÁX.<br>MAX. FLOW | CONSUMO W.<br>CONSUMPTION W. | Ø SALIDA<br>Ø Hose | Largo<br>Length | Ancho<br>Width | Alto<br>Height |
|--------------|----------------------------|--------------------------|------------------------------|--------------------|-----------------|----------------|----------------|
| PUMP 700     | 135 cm                     | 700 l/h.                 | 14                           | 12 mm              | 9,6 cm          | 5 cm           | 8,3 cm         |
| PUMP 1200    | 195 cm                     | 1.200 l/h.               | 27                           | 12 mm              | 12,7 cm         | 6,5 cm         | 10,8 cm        |
| PUMP 2800    | 230 cm                     | 2.800 l/h.               | 55                           | 16 mm              | 16,5 cm         | 8,9 cm         | 12,7 cm        |

# PISCINAS, FILTROS WELLNESS



## PISCINA PRIVADA

26 OPTIMA  
SMART OPTIMA

28 WINNER  
SMART WINNER

30 VSD WINNER

32 [e] WINNER

## PISCINA COMUNITARIA Y PÚBLICA

34 SUPRA  
VSD SUPRA

36 MAGNUS  
VERT MAGNUS

38 VSD MAGNUS

40 [e] MAGNUS

42 CF-2  
VERT CF-2

43 HF-2  
VERT HF-2

44 CF-4  
VERT CF-4

45 HF-4  
VERT HF-4

46 PREFILTER F  
PREFILTER V

47 PREFILTER INOX IH  
PREFILTER INOX IV

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# OPTIMA



Compatible con variador [e]JOY + soporte pared  
Compatible with [e]JOY inverter + wall support



## Aplicaciones:

Bomba autoaspirante para piscinas con prefiltro incorporado que junto a las excelentes prestaciones hidráulicas que ofrece, genera una altísima capacidad de filtración. Filtro con tapa transparente que permite observar fácilmente el interior del prefiltro. Cesto prefiltro de grandes dimensiones. Imposibilidad de comunicación eléctrica con el agua, ya que ninguna parte del motor está en contacto con el líquido bombeado.

**Especialmente adecuada para trabajo con agua salada.**

El variador de velocidad [e]JOY con soporte de pared es compatible solamente con los modelos trifásicos de esta bomba, creando un conjunto bomba + variador que se alimentará en monofásico.

## Dos posibilidades de conexión:

- Conexión rosca hembra de 1 1/2"
- Conexión para tubo de PVC de Ø 50 para encolar. (Se suministran los enlaces rápidos)

## Características constructivas:

Cuerpo bomba y difusor en polipropileno resistente a los productos químicos de las piscinas y reforzado con fibra de vidrio garantizando una excelente duración. Turbina en Noryl. Tapa transparente en policarbonato con sistema de cierre mediante pomos. **Sello mecánico en AISI-316, eje en acero inoxidable AISI-316, tornillería en AISI-316 (permite trabajo con agua salada).**

## Motor:

IE3 motor asíncrono, cerrado de ventilación externa. Grado de protección IP-55, a 2.850 r.p.m. y 50 Hz (60 Hz bajo demanda). Aislamiento clase F. Rodamientos del motor lubricados de por vida y seleccionados para garantizar larga duración y silenciosidad.

**TEMPERATURA MAXIMA DEL AGUA: 40° C.**

también con SMART POOL  
also with SMART POOL



SMART POOL  
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#### Applications:

Self priming pump for swimming pools with a large pre-filter, which together with its excellent hydraulic performance, generates a very large filtering capacity. A filter with a transparent polycarbonate lid that easily allows inspection of the interior of the pre-filter basket. Large dimensions pre-filter basket. No possible electrical communication with the water as no part of the motor is in contact with the water.

**Specially suitable for work with salt water.**

The [e]JOY variable speed drive with wall mount support is compatible only with the three-phase models of this pump, creating a pump + drive unit that will be powered in single phase.

**Two possibilities for the connection of the pipes:**

- Female threat  $\varnothing$  11/2"

- PVC glue connections  $\varnothing$  50

(Fast PVC connectors are supplied with the pump)

#### Constructive characteristics:

Pump body and diffuser in polypropylene, resistant to the chemical products in pools and reinforced with fiber glass, guaranteeing excellent duration. Noryl impeller. Support in aluminum. Mechanical seal in AISI-316. **Shaft in Stainless steel in AISI-316 (ready to work with salt water).**

#### Motor:

IE3 electrical asynchronous motor, close with external ventilation. Protection IP-55. 2,850 r.p.m. 50 Hz. (60Hz. Under demand). Class F insulation. Motor bearings greased for life and selected to ensure long duration and silent work.

**MAXIMUM WATER TEMPERATURE: 40° C.**

| Tipo<br>Type                                      | HP   | KW   | Cond.<br>$\mu$ F | "A"       |            |            | Altura m.c.a. / Height w.c.m. |      |      |      |      |     |     |    | $\varnothing$<br>ASP.                     | $\varnothing$<br>IMP.                     |
|---|------|------|------------------|-----------|------------|------------|-------------------------------|------|------|------|------|-----|-----|----|---|---|
|   |      |      |                  | II<br>230 | III<br>230 | III<br>400 | 4                             | 6    | 8    | 10   | 12   | 14  | 16  | 18 |   |   |
| Caudal m <sup>3</sup> /h / Flow m <sup>3</sup> /h |      |      |                  |           |            |            |                               |      |      |      |      |     |     |    |   |   |
| OPTIMA 25 M                                       | 0,25 | 0,16 | 18               | 2,6       | -          | -          | 10                            | 8    | 6    | 4    | 0,5  | -   | -   | -  | 11/2"<br>o<br>o<br>$\varnothing$<br>50PVC | 11/2"<br>o<br>o<br>$\varnothing$<br>50PVC |
| OPTIMA 33 M                                       | 0,33 | 0,25 | 18               | 2,9       | -          | -          | 12                            | 10   | 8    | 5,5  | 2    | -   | -   |    |   |   |
| OPTIMA 50 M                                       | 0,5  | 0,37 | 18               | 3,3       | -          | -          | 14                            | 12   | 10   | 7    | 5    | -   | -   |    |   |   |
| OPTIMA 75 M/T                                     | 0,75 | 0,55 | 20/-             | 3,8       | 2,8        | 1,7        | 16                            | 15   | 12,5 | 10   | 8    | 4,2 | -   |    |   |   |
| OPTIMA 100 M/T                                    | 1    | 0,75 | 20/-             | 4,2       | 3,5        | 2          | 17                            | 16   | 15,3 | 13   | 10,5 | 7,6 | 5,5 |    |   |   |
| OPTIMA 150 M/T                                    | 1,5  | 1,1  | 30/-             | 7,3       | 5,0        | 2,9        | 18                            | 17,3 | 15,9 | 14,5 | 12,8 | 11  | 9   | 5  |   |   |

PARA MÁS INFORMACIÓN CONSULTAR NUESTRO CATÁLOGO TÉCNICO DE BOMBAS PARA PISCINAS  
CHECK OUR TECHNICAL CATALOGUE OF SWIMMING POOL PUMPS FOR MORE INFORMATION

# WINNER



## Aplicaciones:

Electrobomba autoaspirante para piscinas, con prefiltro incorporado de grandes dimensiones, lo que genera una altísima capacidad de filtración.

Filtro con tapa transparente en policarbonato que permite observar fácilmente el interior del cesto prefiltro. Imposibilidad de comunicación eléctrica con el agua, ya que ninguna parte del motor tiene contacto con el fluido.

## Dos posibilidades de conexión:

- **Conexión rosca hembra de 2"**
- **Conexión para tubo de PVC de Ø 63 para encolar.** (Se suministran los enlaces rápidos)

## Características constructivas:

Cuerpo bomba, tapa cuerpo bomba, base y difusor en polipropileno, resistente a los productos químicos de las piscinas y reforzado con fibra de vidrio garantizando una excelente duración. Turbina en Noryl. **Eje en acero inoxidable AISI 316. Sello mecánico en AISI-316 (permite trabajo con agua salada).** Conexión de aspiración e impulsión a 2". **Incorpora de serie llave para apertura de la tapa prefiltro sin esfuerzo.**

## Motor:

IE3 motor asíncrono, cerrado de ventilación externa. Grado de protección IP-55. 2.850 r.p.m. 50 Hz (60 Hz bajo demanda). Aislamiento clase F.  
**TEMPERATURA MAXIMA DEL AGUA: 40° C.**

también con SMART POOL  
also with SMART POOL



SMART POOL  
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**Applications:**

A self-priming pump for pools with a large prefilter to generate a very high filtration capacity. A filter with a transparent Polycarbonate lid to be able to easily see the interior of the prefilter basket. No possible electric contact with the water as no part of the motor is in contact with it.

**Two possibilities for the connection of the pipes:**

- Female thread Ø 2"
- PVC glue connections Ø 63  
(Fast PVC connectors are supplied with the pump)

**Constructive characteristics:**

Pump body, pump body lid, base and diffuser in polypropylene, resistant to the chemical products present in pools and reinforced with glass fibre to ensure excellent duration. Impeller in Noryl. **Shaft in stainless steel AISI-316. Mechanical seal in AISI-316 (ready to work with salt water).** Connection to 2" suction and drive". **Includes an easy open key.**

**Motor:**

IE3 sealed asynchronous with external ventilation. IP-55 protection, 2,850 rpm, 50 Hz. Class F insulation.  
**MAXIMUM WATER TEMPERATURE: 40° C.**

| Tipo<br>Type                                      | HP  | KW   | Cond.<br>µF | "A"       |            |            | Altura manométrica m.c.a. - Manometric height w.c.m. |      |      |             |      |      |     | Ø<br>ASP. | Ø<br>IMP. |                       |                       |
|---|-----|------|-------------|-----------|------------|------------|--|------|------|-------------|------|------|-----|-----------|-----------|-----------------------|-----------------------|
|   |     |      |             | II<br>230 | III<br>230 | III<br>400 | 4  | 6    | 8    | 10          | 12   | 14   | 16  |           |           | 18                    | 21                    |
| Caudal m <sup>3</sup> /h / Flow m <sup>3</sup> /h |     |      |             |           |            |            |  |      |      |             |      |      |     |           |           |                       |                       |
| WINNER 50 M<br>WINNER 50 T                        | 0,5 | 0,37 | 20          | 4,4       | -          | -          | 17,5   | 15,6 | 13,5 | <b>11,1</b> | 8,4  |      |     |           |           | 2"<br>o<br>Ø<br>63PVC | 2"<br>o<br>Ø<br>63PVC |
| WINNER 75 M<br>WINNER 75 T                        |     |      | 20          | 4,75      | -          | -          | 19,5   | 18   | 15,7 | <b>13,5</b> | 10,8 | 7,9  |     |           |           |                       |                       |
| WINNER 100 M<br>WINNER 100 T                      | 1   | 0,75 | 25          | 5,5       | -          | -          | 23,2   | 21,1 | 19,7 | <b>18</b>   | 15   | 12,3 | 8,7 |           |           |                       |                       |
| WINNER 150 M<br>WINNER 150 T                      |     |      | 30          | 7,3       | -          | -          | 27   | 25   | 23   | <b>21</b>   | 19   | 17   | 14  | 10        |           |                       |                       |
| WINNER 200 M<br>WINNER 200 T                      | 2   | 1,5  | 40          | 9,2       | -          | -          |  | 28   | 26   | <b>24</b>   | 21   | 18   | 14  | 12        |           |                       |                       |
| WINNER 300 M<br>WINNER 300 T                      |     |      | 40          | 12,2      | -          | -          |  | 32   | 30   | <b>29</b>   | 27   | 23   | 20  | 15        | 12        |                       |                       |

PARA MÁS INFORMACIÓN CONSULTAR NUESTRO CATÁLOGO TÉCNICO DE BOMBAS PARA PISCINAS  
CHECK OUR TECHNICAL CATALOGUE OF SWIMMING POOL PUMPS FOR MORE INFORMATION

# VSD WINNER



## Aplicaciones:

La serie de bombas VSD WINNER incorporan a la bomba WINNER trifásica standard el variador [e]JOY, creando un conjunto de alimentación monofásica. El conjunto bomba + variador de velocidad funciona por modulación de frecuencia, obteniendo un gran confort y minimizando los costes energéticos. El software está especialmente desarrollado para la automatización de la bomba. Gracias a un sencillo asistente, se proporciona la información necesaria a la bomba para tener una instalación completamente operativa. El Sistema permite la programación de varios ciclos de filtración diarios con diferente velocidad de funcionamiento para cada ciclo.

## Características principales:

- Ahorro energético muy significativo debido a que la bomba puede modificar su velocidad de trabajo a los requerimientos de la instalación.
- 3 velocidades de funcionamiento diferentes editables por el usuario.
- Diferentes velocidades de trabajo para diferentes programaciones.
- Conjunto bomba-variador extremadamente silencioso.
- Protección de sobrecarga del motor por consumo.
- Control de clorador salino.
- Permite controlar los ciclos de iluminación de la piscina.
- Incorpora un menú de funcionamiento específico para la limpieza del filtro.

## Applications:

The VSD WINNER pumps incorporate the [e]JOY variable speed drive to the standard WINNER pump, creating a single-phase set. The pump + speed drive set works by frequency modulation, obtaining great comfort and minimizing energy costs. The software is specially developed for the automation of the pump. Thanks to a simple wizard, the necessary information is provided to the pump to have a fully operational installation. The System allows the programming of several daily filtration cycles with different operating speeds for each cycle.

## Main features:

- Very significant energy savings due to the fact that the pump can modify its working speed to the installation requirements.
- 3 different operating speeds editable by the user.
- Extremely silent pump-inverter set.
- Consumption motor overload protection.
- Different working speeds for different programming.
- Salt chlorinator control.
- It allows to control the lighting cycles of the pool.
- It incorporates a specific operating menu for filter cleaning.



**VSD WINNER funcionando a 2900 RPM / VSD WINNER working at 2900 RPM**

| Tipo<br>Type     | HP   | KW   | "A"<br>II<br>230 | Altura manométrica m.c.a. - Manometric height w.c.m. |      |      |             |      |      |     |    |    |  |
|------------------|------|------|------------------|--|------|------|-------------|------|------|-----|----|----|--|
|                  |      |      |                  | 4  | 6    | 8    | 10          | 12   | 14   | 16  | 18 | 21 |  |
|                  |      |      |                  | Caudal m <sup>3</sup> /h / Flow m <sup>3</sup> /h    |      |      |             |      |      |     |    |    |  |
| VSD WINNER 50 M  | 0,5  | 0,37 | 4,4              | 17,5   | 15,6 | 13,5 | <b>11,1</b> | 8,4  |      |     |    |    |  |
| VSD WINNER 75 M  | 0,75 | 0,55 | 4,75             | 19,5   | 18   | 15,7 | <b>13,5</b> | 10,8 | 7,9  |     |    |    |  |
| VSD WINNER 100 M | 1    | 0,75 | 5,5              | 23,2   | 21,1 | 19,7 | <b>18</b>   | 15   | 12,3 | 8,7 |    |    |  |
| VSD WINNER 150 M | 1,5  | 1,1  | 7,3              | 27   | 25   | 23   | <b>21</b>   | 19   | 17   | 14  | 10 |    |  |
| VSD WINNER 200 M | 2    | 1,5  | 9,2              |  | 28   | 26   | <b>24</b>   | 21   | 18   | 14  | 12 |    |  |
| VSD WINNER 300 M | 3    | 2,2  | 12,2             |  | 32   | 30   | <b>29</b>   | 27   | 23   | 20  | 15 | 12 |  |

**VSD WINNER funcionando a 2300 RPM / VSD WINNER working at 2300 RPM**

| Tipo<br>Type     | HP   | W    | "A"<br>II<br>230 | Altura manométrica m.c.a. - Manometric height w.c.m. |      |             |      |      |      |      |      |    |  |
|------------------|------|------|------------------|--|------|-------------|------|------|------|------|------|----|--|
|                  |      |      |                  | 4  | 5    | 6           | 7    | 8    | 9    | 10   | 11   | 12 |  |
|                  |      |      |                  | Caudal m <sup>3</sup> /h / Flow m <sup>3</sup> /h    |      |             |      |      |      |      |      |    |  |
| VSD WINNER 50 M  | 0,25 | 185  | 2,2              | 12,7   | 11,4 | <b>10,2</b> | 8,5  | 5,6  |      |      |      |    |  |
| VSD WINNER 75 M  | 0,37 | 275  | 2,35             | 14   | 12,6 | <b>11,1</b> | 9,4  | 7,6  |      |      |      |    |  |
| VSD WINNER 100 M | 0,5  | 375  | 2,7              | 16,9   | 15,7 | <b>14,2</b> | 12,5 | 10,5 | 9    | 7    |      |    |  |
| VSD WINNER 150 M | 0,75 | 550  | 3,6              | 19,6   | 18,5 | <b>17</b>   | 15,5 | 14   | 12,5 | 10,6 | 8,5  |    |  |
| VSD WINNER 200 M | 1    | 750  | 4,5              | 21,8   | 21   | <b>19,4</b> | 17,7 | 15,8 | 14   | 11,8 | 9,5  |    |  |
| VSD WINNER 300 M | 1,5  | 1100 | 6,0              | 25,5   | 24,1 | <b>23,5</b> | 22,1 | 20,6 | 18,5 | 16,7 | 14,5 | 12 |  |

**VSD WINNER funcionando a 1700 RPM / VSD WINNER working at 1700 RPM**

| Tipo<br>Type     | HP   | W   | "A"<br>II<br>230 | Altura manométrica m.c.a. - Manometric height w.c.m. |      |      |             |      |      |      |      |     |  |
|------------------|------|-----|------------------|--|------|------|-------------|------|------|------|------|-----|--|
|                  |      |     |                  | 2  | 2,5  | 3    | 3,5         | 4    | 4,5  | 5    | 5,5  | 6   |  |
|                  |      |     |                  | Caudal m <sup>3</sup> /h / Flow m <sup>3</sup> /h    |      |      |             |      |      |      |      |     |  |
| VSD WINNER 50 M  | 0,1  | 75  | 0,89             | 9,6  | 8,9  | 8    | <b>7</b>    | 5,7  | 3,2  |      |      |     |  |
| VSD WINNER 75 M  | 0,15 | 110 | 0,95             | 10,6   | 9,7  | 8,8  | <b>7,6</b>  | 6,6  | 5    |      |      |     |  |
| VSD WINNER 100 M | 0,2  | 152 | 1,1              | 12,8   | 12   | 11   | <b>10</b>   | 8,9  | 7,8  | 6,5  | 5,2  |     |  |
| VSD WINNER 150 M | 0,3  | 222 | 1,5              | 14,8   | 14   | 13   | <b>12,4</b> | 11,2 | 10   | 8,8  | 7,6  | 6,4 |  |
| VSD WINNER 200 M | 0,4  | 302 | 1,8              | 16,4   | 15,8 | 15   | <b>13,8</b> | 12,5 | 11,5 | 10   | 9    | 7,2 |  |
| VSD WINNER 300 M | 0,6  | 443 | 2,4              |  | 18,5 | 17,6 | <b>16,8</b> | 16   | 15   | 13,7 | 12,5 | 11  |  |

**VSD WINNER funcionando a 1100 RPM / VSD WINNER working at 1100 RPM**

| Tipo<br>Type     | HP   | W   | "A"<br>II<br>230 | Altura manométrica m.c.a. - Manometric height w.c.m. |      |             |      |     |     |     |     |     |  |
|------------------|------|-----|------------------|--|------|-------------|------|-----|-----|-----|-----|-----|--|
|                  |      |     |                  | 0,6  | 0,9  | 1,2         | 1,5  | 1,8 | 2,1 | 2,4 | 2,7 | 3   |  |
|                  |      |     |                  | Caudal m <sup>3</sup> /h / Flow m <sup>3</sup> /h    |      |             |      |     |     |     |     |     |  |
| VSD WINNER 50 M  | 0,03 | 21  | 0,24             | 6,6  | 6,1  | <b>5,3</b>  | 4,4  | 2,9 |     |     |     |     |  |
| VSD WINNER 75 M  | 0,04 | 30  | 0,26             | 7,4  | 6,7  | <b>5,8</b>  | 4,9  | 3,8 |     |     |     |     |  |
| VSD WINNER 100 M | 0,05 | 42  | 0,3              | 8,7  | 8,2  | <b>7,3</b>  | 6,4  | 5,3 | 4,2 |     |     |     |  |
| VSD WINNER 150 M | 0,08 | 60  | 0,4              | 10,2   | 9,4  | <b>8,6</b>  | 7,7  | 6,8 | 5,7 | 4,6 |     |     |  |
| VSD WINNER 200 M | 0,11 | 87  | 0,5              |  | 10,7 | <b>9,7</b>  | 8,7  | 7,7 | 6,2 | 5,3 |     |     |  |
| VSD WINNER 300 M | 0,16 | 120 | 0,65             |  | 12,3 | <b>11,5</b> | 10,8 | 10  | 8,7 | 7,7 | 6   | 4,5 |  |

LOS DATOS INDICADOS TIENEN UN FIN ORIENTATIVO Y PUEDEN TENER DIFERENCIAS EN UNA INSTALACION REAL  
THE INDICATED DATA HAVE A GUIDANCE PURPOSE AND MAY HAVE DIFFERENCES IN A REAL INSTALLATION

# [e]WINNER

con motor de imanes permanentes  
*with permanent magnet motor*



Soporte de pared opcional  
*Wall support as an option*



## [e] Winner 300:

Bomba de piscina que incorpora **variador de frecuencia con un software específico para esta bomba, y un motor síncrono de imanes permanentes de altísima eficiencia**. La combinación de estas dos tecnologías innovadoras íntegramente diseñadas y desarrolladas por **SACI PUMPS**, nos aseguran un ahorro de más del 80% en consumo de energía comparado con las bombas tradicionales.

Al incorporar un software desarrollado especialmente para la automatización de la bomba [e] winner, se ha dispuesto un sencillo menú previo. Para que su bomba bomba y su instalación sea totalmente operativa.

### Solamente se deber indicar:

- Fecha y hora actual
- Volumen de la piscina
- Filtro que dispone.

### Características [e] pool drive:

- Incorporan software desarrollado especialmente para la automatización de la bomba [e] winner de forma intuitiva y de extrema facilidad de programación, no requiere de ningún conocimiento técnico previo por parte del usuario.
- **Ahorro energético muy importante** que puede llegar a más del 80%, del costo energético.
- Extremadamente Silenciosa, (≈ 40 dB).



## [e] Winner 300:

*Swimming pool pumps compound by a **variable frequency drive with a special software for this pump and a high efficiency synchronous motors with permanent magnets**. The combination of these two innovative technologies designed and developed entirely by **SACI PUMPS**, assure us energy savings of over 80% compared to the traditional pumps.*

*The software is specially developed for the automation of [e] winner pump, an easy setup wizard is provided to leave the pump and the installation fully operational.*

### Just 3 indicators to be filled:

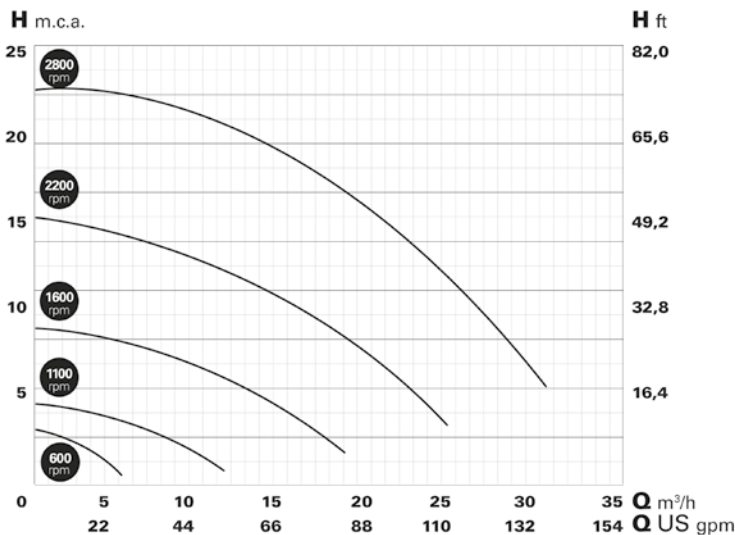
- Current date
- Pool Volume
- Filter size.

### Features [e] pool drive:

- *Incorporates a specially developed software for automation of the [e] winner pump with an easy and intuitive programming. Any technical knowledge is required from the user to program it.*



- Adaptabilidad total, rango de velocidades de 400 rpm a 3.000 rpm. **La bomba se adapta automáticamente a la situación de máximo ahorro.**
- Gran versatilidad, Un solo modelo adaptable a cualquier tipo y volumen de piscina desde 15m<sup>3</sup> hasta 450 m<sup>3</sup>, No es necesario tener diferentes bombas, nuestra [e] winner es capaz de controlar la filtración, juegos de agua, lavado y aspirado en cualquier situación.
- Nuevo motor Brushless IPM sensorless de imanes permanentes, que reduce la temperatura del motor de manera extrema, lo cual alarga la vida de rodamientos y partes mecánicas.
- Alta Protección, Los límites introducidos durante la programación protegen su bomba, su instalación, su filtro y a los usuarios.
- Conectividad integrada con otros elementos de la piscina como un clorador salino, bomba de calor...
- Gran display LCD donde toda la información necesaria se refleja con claridad.
- Pueden suministrarse bomba y variador por separado
- **Very significant energy savings** that can reach more than 80% of the energy cost.
- **Extremely silent** (≈ 40 dB).
- **Total adaptability**, speed range from 400 rpm to 3,000 rpm. **The pump automatically sets to the point of maximum savings.**
- **Great versatility**, one single model to any size of pool from 15 m<sup>3</sup> to 450 m<sup>3</sup>. Not necessary to have different pumps, our [e] winner is able to control filtration, fountains, backwashing and vacuuming in any situation.
- **New IPM sensor less brushless motor** with permanent magnets, which reduces the engine temperature and extends the life of bearings and mechanical parts.
- **High Protection**, the parameters set during programming protect your pump, installation, filter and users.
- **Integrated connectivity** to manage salt chlorinator, heat pump, lights, etc.
- **Large LCD display** where all necessary information is clearly reflected.
- **Pump and inverter can be supplied separately**



### Ejemplo de ahorro energético para una piscina de 50 m<sup>3</sup> Energy saving example for a pool of 50 m<sup>3</sup>

| Tipo / Type           | HP   | RPM   | TIPO DE MOTOR<br>MOTOR TYPE | PISCINA<br>POOL<br>m <sup>3</sup> | TRABAJO<br>WORK<br>m <sup>3</sup> /h | h/día<br>h/day | KW   | KW/h | AHORRO<br>SAVING | KW/h/Año<br>KW/h/Year | Kg/CO <sub>2</sub> /Año<br>Kg/CO <sub>2</sub> /Year | Árboles<br>salvados<br>Trees saved |
|-----------------------|------|-------|-----------------------------|-----------------------------------|--------------------------------------|----------------|------|------|------------------|-----------------------|---|------------------------------------|
| <b>WINNER 75 M</b>    | 0,75 | 2.900 | ASINCRONO                   | 50                                | 13,5                                 | 4              | 0,55 | 2,2  | -                | 803                   | 302   | -                                  |
| <b>[e] WINNER 300</b> | 3    | 600   | BRUSHLESS IPM               | 50                                | 6                                    | 8,33           | 0,04 | 0,33 | <b>85%</b>       | 122                   | 56  | 241                                |

# SUPRA

bomba autoaspirante para piscina  
*self priming pump for swimming pools*



también disponible VSD SUPRA  
*also available VSD SUPRA*



2.900 r.p.m.



## Supra:

- Polipropileno + Fibra de Vidrio
- Eje en acero inoxidable AISI-316
- Rodete en Noryl
- Sello mecánico en acero inoxidable AISI-316
- Tapa prefiltro en policarbonato

## Características:

- Doble conexión, rosca y racores
- Rosca hembra 3", racor encolar DN90
- **Pintura por cataforesis**
- Cesto prefiltro de gran tamaño
- Tornillería en acero inoxidable AISI-316
- Motor asíncrono IE3 a 2900 rpm (3450 rpm @ 60 Hz)
- Rodamientos lubricados de por vida
- Grado IP-55, Aislamiento clase F
- Máxima temperatura del agua: +40°C



## Supra:

- *Polypropylene + Fiberglass*
- *AISI-316 stainless steel shaft*
- *Impeller in Noryl*
- *Mechanical seal in stainless steel AISI-316*
- *Polycarbonate prefilter cap*

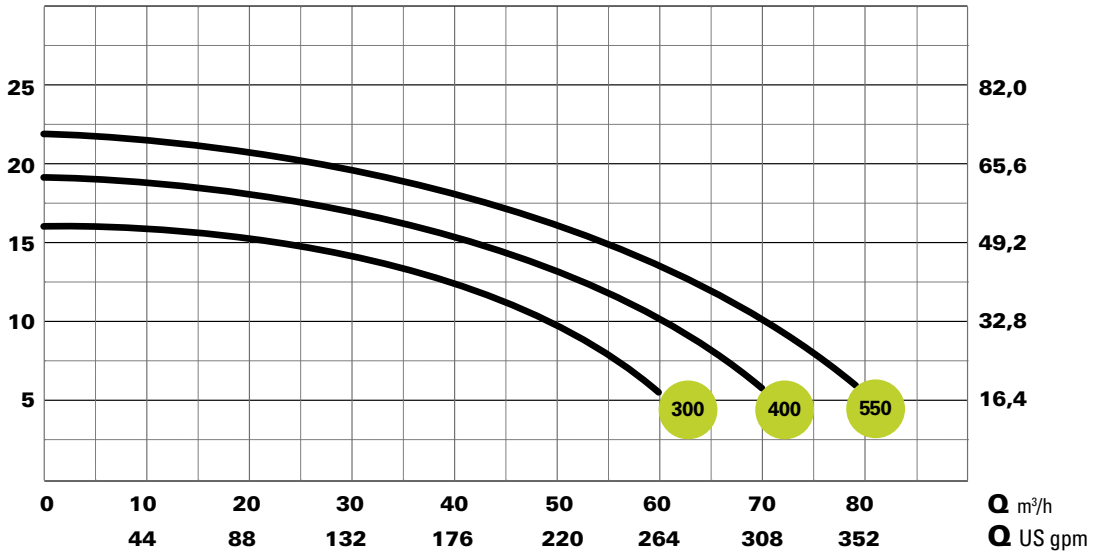
## Features:

- *Double connection, thread and fittings*
- *3" female thread, fittings glue DN90*
- ***Cataphoresis painting***
- *Large pre-filter basket*
- *Stainless steel screws AISI-316*
- *IE3 asynchronous motor at 2900 rpm (3450 rpm @ 60 Hz)*
- *Lubricated bearings for life*
- *IP-55 Grade, Class F Insulation*
- *Maximum water temperature: + 40°C*

Datos Técnicos / Technical data

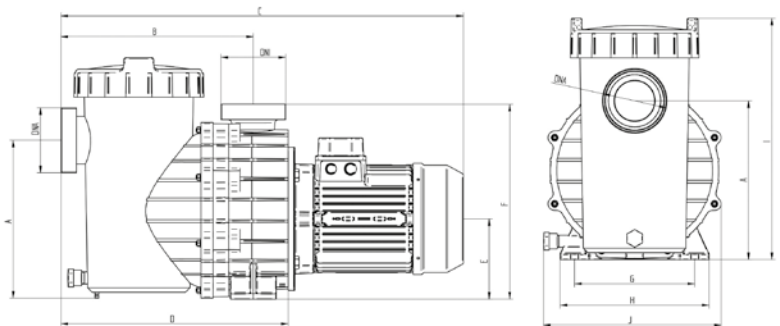
**H** m.c.a.

**H** ft.



| Tipo / Type   | HP  | kW  | A   |      |     | RPM  | Altura m.c.a / Height w.c.m |    |    |    |    |    |    | ASP / IMP   |
|---------------|-----|-----|-----|------|-----|------|-----------------------------|----|----|----|----|----|----|-------------|
|               |     |     | II  | III  | III |      | 6                           | 8  | 10 | 12 | 14 | 16 | 18 |             |
|               |     |     | 230 | 230  | 400 |      | Caudal m³/h / Flow m³/h     |    |    |    |    |    |    |             |
| SUPRA 300 M/T | 3   | 2,2 | 16  | 9,4  | 5,3 | 2900 | 59                          | 54 | 47 | 39 | 28 | 16 | -  | 3"<br>PVC90 |
| SUPRA 400 T   | 4   | 3   | -   | 12,5 | 6,9 | 2900 | 68                          | 63 | 58 | 52 | 45 | 36 | 23 |             |
| SUPRA 550 T   | 5,5 | 4   | -   | -    | 8,8 | 2900 | 78                          | 74 | 70 | 65 | 59 | 50 | 39 |             |

| NOMBRE | DIMENSIÓN (mm) |
|--------|----------------|
| A      | 277            |
| B      | 336            |
| C      | 704            |
| D      | 397            |
| E      | 140            |
| F      | 340            |
| G      | 210            |
| H      | 260            |
| I      | 420            |
| J      | 310            |
| DNA    | PVC 90         |
| DNI    | PVC 90         |



# MAGNUS



1.450 r.p.m. de 2,5 a 10 HP  
2.850 r.p.m. 12,5 y 15 HP



## Aplicaciones:

**Bomba extremadamente silenciosa dado que gira a 1.450 rpm hasta 10CV.** Bomba autoaspirante de gran caudal con motores de 1.450rpm y 2.850 rpm ideal para grandes equipos de filtración. Incorpora un prefiltro en la aspiración de grandes dimensiones, que junto a las excelentes prestaciones hidráulicas que ofrece, genera una altísima capacidad de filtración. Filtro con tapa transparente en policarbonato que permite observar fácilmente el interior del cesto prefiltro. Imposibilidad de comunicación eléctrica con el agua, ya que ninguna parte del motor tiene contacto con el líquido bombeado.

## Características constructivas:

Cuerpo Prefiltro, Cuerpo bomba, Voluta, Base y Tapa cuerpo bomba en polipropileno resistente a los productos químicos de las piscinas, y reforzado con fibra de vidrio. Cesto prefiltro en polietileno (AISI-316 bajo

demanda). Rodete en Noryl ó Bronce. Tapa prefiltro en policarbonato con sistema de cierre con cuatro pomos. **Rodete de Noryl en MAGNUS-4 250, 300 y 400. Rodete de Noryl o Bronce en MAGNUS-2 550, 750 y 1000. Rodete de Bronce en MAGNUS-2 1250 y 1500. Sello mecánico en acero inoxidable AISI-316 (permite trabajo con agua salada).** Tornillería en acero inoxidable AISI 304. **Eje en acero inoxidable AISI-316. Kit contra bridas y tornillos disponible bajo demanda.**

## Motor:

IE3 motor asincrono cerrado de ventilación externa. Grado de protección IP-55. Aislamiento clase F. 1.450 rpm y 2.850 rpm. Disponibles versiones a 60 Hz. Rodamientos engrasados de por vida, garantizando una larga duración y un trabajo silencioso.

también disponible versión vertical  
also available vertical version



#### Applications:

**Extremely silent pump, at 1,450 rpm until 10HP.** High flow self priming pump with motors at 1.450 rpm & 2.850 rpm, designed for big filtration installations. Equipped with a big capacity strainer in the inlet that among its excellent performance generates a high filtration capacity. Prefilter with a transparent lid that allows easy inspection of the basket. No possible electrical contact with the water as no part of the motor is open to it.

#### Constructive characteristics:

Prefilter, Pump body, Volut, Base & pump body lid in poly-propylene resistant to Chemicals products used in pool sand reinforced with fiber glass. Prefilter basket in poly-thene (AISI-316 under demand). Strainer lid in poly-

carbonate with a closing system using four handles. **Noryl impeller in MAGNUS-4 250, 300 & 400. Noryl or Bronze impeller in MAGNUS-4 550, 750 & 1000. Bronze impeller in MAGNUS-2 1250 & 1500. Mechanical seal in AISI-316 (ready to work with salt water). Nuts and bolts in stainless steel AISI 304. Shaft in stainless steel in AISI-316. Flanges and bolts kit available under demand.**

#### Motor:

IE3 standard Asynchronous motor, sealed with external ventilation. Protection IP-55. Isolation class F. 1,450 rpm & 2,850 rpm. 60Hz pump also available. Motor bearings greased for life and selected to ensure long duration and silent working.

| Tipo<br>Type         | Potencia |     | "A"     |         |         | r.p.m.       | Altura m.c.a. / Height w.c.m. |     |            |     |     |     |     |    |    |  | ASP. IMP  |             | Mínimo diámetro de aspiración<br>Minimum size of suction pipe |     |     |  |  |  |  |  |
|----------------------|----------|-----|---------|---------|---------|--------------|-------------------------------|-----|------------|-----|-----|-----|-----|----|----|--|---|-------------|---|-----|-----|--|--|--|--|--|
|                      | HP       | KW  | III 230 | III 400 | III 690 |              | 6                             | 8   | 10         | 12  | 14  | 16  | 18  | 20 | 22 |  |   |             |   |     |     |  |  |  |  |  |
|                      |          |     |         |         |         |              |                               |     |            |     |     |     |     |    |    |  | Caudal m <sup>3</sup> /h / Flow m <sup>3</sup> /h |             |   |     |     |  |  |  |  |  |
| <b>MAGNUS-4 250</b>  | 2,5      | 1,8 | 8,5     | 4,9     | -       | <b>1.450</b> | 53                            | 43  | <b>32</b>  | 18  |     |     |     |    |    |  |   | 110<br>(4") | 110<br>(4")   | 110 |     |  |  |  |  |  |
| <b>MAGNUS-4 300</b>  | 3        | 2,2 | 9,4     | 5,3     | -       | <b>1.450</b> | 62                            | 54  | <b>43</b>  | 26  | 10  |     |     |    |    |  |   |             |   |     | 125 |  |  |  |  |  |
| <b>MAGNUS-4 400</b>  | 4        | 3   | 12,5    | 6,9     | -       | <b>1.450</b> | 74                            | 66  | <b>56</b>  | 42  | 29  | 14  |     |    |    |  |   |             |   |     | 140 |  |  |  |  |  |
| <b>MAGNUS-4 550</b>  | 5,5      | 4   | 15,3    | 8,8     | -       | <b>1.450</b> | 123                           | 104 | <b>84</b>  | 57  | 30  |     |     |    |    |  |   |             |   |     | 160 |  |  |  |  |  |
| <b>MAGNUS-4 750</b>  | 7,5      | 5,5 | -       | 12      | 7       | <b>1.450</b> | 143                           | 127 | <b>107</b> | 85  | 57  | 12  |     |    |    |  |   |             |   |     | 180 |  |  |  |  |  |
| <b>MAGNUS-4 1000</b> | 10       | 7,5 | -       | 15,8    | 9,2     | <b>1.450</b> | 160                           | 145 | <b>126</b> | 107 | 80  | 48  | 14  |    |    |  |   |             |   |     | 180 |  |  |  |  |  |
| <b>MAGNUS-2 1250</b> | 12,5     | 9,2 | -       | 18,5    | 10,7    | 2.850        |                               | 167 | <b>152</b> | 136 | 118 | 99  | 80  | 47 |    |  |   |             |   |     | 180 |  |  |  |  |  |
| <b>MAGNUS-2 1500</b> | 15       | 11  | -       | 20,9    | 12      | 2.850        |                               | 188 | <b>177</b> | 162 | 146 | 130 | 112 | 92 | 66 |  |   |             |   |     | 200 |  |  |  |  |  |

# VSD MAGNUS

efficiency class /inverter

## IE3+

Bomba de alta eficiencia con  
variador de velocidad

*High efficiency pump with  
speed drive*



#### Aplicaciones:

La serie de bombas VSD MAGNUS incorporan a la bomba MAGNUS el variador de velocidad [e]POOL. El conjunto bomba + variador de velocidad funciona por modulación de frecuencia, obteniendo un gran confort y minimizando los costes energéticos. El software está especialmente desarrollado para la automatización de la bomba. Gracias a un sencillo asistente, se proporciona la información necesaria a la bomba para tener una instalación completamente operativa. El Sistema permite la programación de varios ciclos de filtración diarios con diferente velocidad de funcionamiento para cada ciclo. En instalaciones con varias bombas, las bombas se comunicarán entre ellas para trabajar el mismo número de horas. Además, es capaz de hacer funcionar varias bombas a la vez.

#### Características principales:

- Ahorro energético muy significativo debido a que la bomba puede modificar su velocidad de trabajo a los requerimientos de la instalación.
- Diferentes velocidades de trabajo para diferentes programaciones.
- Comunicación entre varias bombas.
- Alternancia de trabajo por tiempo.
- Conjunto bomba-variador extremadamente silencioso.
- **Sistema automático de limpieza de filtros de arena.**
- Protección de sobrecarga del motor por consumo.
- Sistema de auto aprendizaje para la búsqueda constante de los parámetros que determinan un funcionamiento en seco.
- Pueden suministrarse bomba y variador por separado.

#### Motor:

Asíncrono cerrado de ventilación externa. Grado de protección IP-55. Aislamiento clase F. Doble frecuencia 50 Hz y 60 Hz. Rodamientos engrasados de por vida, garantizando una larga duración y un trabajo silencioso.



#### Applications:

The VSD MAGNUS series of pumps incorporate the [e] POOL variable speed drive to the MAGNUS pump. The pump + speed drive set works by frequency modulation, obtaining great comfort and minimizing energy costs. The software is specially developed for the automation of the pump. Thanks to a simple wizard, the necessary information is provided to the pump to have a fully operational installation. The System allows the programming of several daily filtration cycles with different operating speeds for each cycle. In installations with several pumps, the pumps will communicate with each other to work the same number of hours. In addition, it is capable of operating several pumps at the same time.

#### Main features:

- Very significant energy savings due to the fact that the pump can modify its working speed to the installation requirements.
- Different working speeds for different programming.
- Communication between several pumps.
- Alternating work by time.
- Extremely silent pump-inverter set.
- **Automatic sand filter cleaning system.**
- Consumption motor overload protection.
- Self-learning system for the constant search of the parameters that determine a dry operation.
- Pump and inverter can be supplied separately

#### Motor:

Asynchronous closed external ventilation. Degree of protection IP-55. Class F insulation. Double frequency 50 Hz and 60 Hz. Bearings greased for life, guaranteeing a long life and a silent work.



**Ejemplo de bomba VSD MAGNUS funcionando a 50Hz / VSD MAGNUS example of pump working at 50Hz**

| Tipo<br>Type      | Potencia |     | "A"<br>III<br>400 | r.p.m. | Altura m.c.a. / Height w.c.m.                     |     |            |     |     |     |     |    |    |
|-------------------|----------|-----|-------------------|--------|---|-----|------------|-----|-----|-----|-----|----|----|
|                   | HP       | KW  |                   |        | 6   | 8   | 10         | 12  | 14  | 16  | 18  | 20 | 22 |
|                   |          |     |                   |        | Caudal m <sup>3</sup> /h / Flow m <sup>3</sup> /h |     |            |     |     |     |     |    |    |
| VSD MAGNUS-4 250  | 2,5      | 1,8 | 4,9               | 1.450  | 53  | 43  | <b>32</b>  | 18  | -   | -   | -   | -  | -  |
| VSD MAGNUS-4 300  | 3        | 2,2 | 5,3               | 1.450  | 62  | 54  | <b>43</b>  | 26  | 10  | -   | -   | -  | -  |
| VSD MAGNUS-4 400  | 4        | 3   | 6,9               | 1.450  | 74  | 66  | <b>56</b>  | 42  | 29  | 14  | -   | -  | -  |
| VSD MAGNUS-4 550  | 5,5      | 4   | 8,8               | 1.450  | 123   | 104 | <b>84</b>  | 57  | 30  | -   | -   | -  | -  |
| VSD MAGNUS-4 750  | 7,5      | 5,5 | 12                | 1.450  | 143   | 127 | <b>107</b> | 85  | 57  | 12  | -   | -  | -  |
| VSD MAGNUS-4 1000 | 10       | 7,5 | 15,8              | 1.450  | 160   | 145 | <b>126</b> | 107 | 80  | 48  | 14  | -  | -  |
| VSD MAGNUS-2 1250 | 12,5     | 9,2 | 18,5              | 2.850  | -   | 167 | <b>152</b> | 136 | 118 | 99  | 80  | 47 | -  |
| VSD MAGNUS-2 1500 | 15       | 11  | 20,9              | 2.850  | -   | 188 | <b>177</b> | 162 | 146 | 130 | 112 | 92 | 66 |

**Ejemplo de bomba VSD MAGNUS funcionando a 40Hz / VSD MAGNUS example of pump working at 40Hz**

| Tipo<br>Type      | Potencia |      | "A"<br>III<br>400 | r.p.m. | Altura m.c.a. / Height w.c.m.                     |     |     |            |     |     |    |    |    |
|-------------------|----------|------|-------------------|--------|---|-----|-----|------------|-----|-----|----|----|----|
|                   | HP       | KW   |                   |        | 4   | 5   | 6   | 7          | 8   | 10  | 12 | 14 | 16 |
|                   |          |      |                   |        | Caudal m <sup>3</sup> /h / Flow m <sup>3</sup> /h |     |     |            |     |     |    |    |    |
| VSD MAGNUS-4 250  | 1,06     | 0,78 | 2                 | 1.160  | 42  | 35  | 28  | <b>21</b>  | 12  | -   | -  | -  | -  |
| VSD MAGNUS-4 300  | 1,38     | 1,01 | 2,4               | 1.160  | 50  | 43  | 37  | <b>30</b>  | 22  | 4   | -  | -  | -  |
| VSD MAGNUS-4 400  | 1,79     | 1,32 | 3,1               | 1.160  | 57  | 52  | 47  | <b>41</b>  | 34  | 19  | -  | -  | -  |
| VSD MAGNUS-4 550  | 2,58     | 1,9  | 4,1               | 1.160  | 88  | 78  | 65  | <b>52</b>  | 36  | -   | -  | -  | -  |
| VSD MAGNUS-4 750  | 3,48     | 2,56 | 5,6               | 1.160  | 108   | 98  | 86  | <b>74</b>  | 61  | 28  | -  | -  | -  |
| VSD MAGNUS-4 1000 | 5        | 3,7  | 7,9               | 1.160  | 126   | 114 | 105 | <b>94</b>  | 80  | 46  | -  | -  | -  |
| VSD MAGNUS-2 1250 | 6,2      | 4,6  | 9,2               | 2.320  | 139   | 131 | 124 | <b>116</b> | 106 | 84  | 56 | -  | -  |
| VSD MAGNUS-2 1500 | 7,6      | 5,6  | 10,6              | 2.320  | 150   | 145 | 138 | <b>130</b> | 126 | 112 | 96 | 55 | 8  |

**Ejemplo de bomba VSD MAGNUS funcionando a 30Hz / VSD MAGNUS example of pump working at 30Hz**

| Tipo<br>Type      | Potencia |      | "A"<br>III<br>400 | r.p.m. | Altura m.c.a. / Height w.c.m.                     |     |           |    |    |    |    |   |
|-------------------|----------|------|-------------------|--------|---|-----|-----------|----|----|----|----|---|
|                   | HP       | KW   |                   |        | 2   | 3   | 4         | 5  | 6  | 7  | 8  | 9 |
|                   |          |      |                   |        | Caudal m <sup>3</sup> /h / Flow m <sup>3</sup> /h |     |           |    |    |    |    |   |
| VSD MAGNUS-4 250  | 0,45     | 0,33 | 0,8               | 870    | 33,5  | 25  | <b>15</b> | 2  | -  | -  | -  | - |
| VSD MAGNUS-4 300  | 0,58     | 0,43 | 1                 | 870    | 39  | 31  | <b>22</b> | 11 | -  | -  | -  | - |
| VSD MAGNUS-4 400  | 0,76     | 0,56 | 1,3               | 870    | 44  | 37  | <b>30</b> | 21 | 10 | -  | -  | - |
| VSD MAGNUS-4 550  | 1,07     | 0,79 | 1,7               | 870    | 70  | 55  | <b>38</b> | 12 | -  | -  | -  | - |
| VSD MAGNUS-4 750  | 1,47     | 1,08 | 2,3               | 870    | 84  | 70  | <b>46</b> | 36 | 10 | -  | -  | - |
| VSD MAGNUS-4 1000 | 2,1      | 1,55 | 3,3               | 870    | 98  | 84  | <b>69</b> | 50 | 24 | -  | -  | - |
| VSD MAGNUS-2 1250 | 2,6      | 1,9  | 3,8               | 1.740  | 108   | 96  | <b>87</b> | 72 | 56 | 34 | -  | - |
| VSD MAGNUS-2 1500 | 3,25     | 2,39 | 4,5               | 1.740  | 114   | 105 | <b>96</b> | 89 | 75 | 64 | 39 | 3 |

**Ejemplo de bomba VSD MAGNUS funcionando a 20Hz / VSD MAGNUS example of pump working at 20Hz**

| Tipo<br>Type      | Potencia |      | "A"<br>III<br>400 | r.p.m. | Altura m.c.a. / Height w.c.m.                     |      |             |      |     |    |     |     |
|-------------------|----------|------|-------------------|--------|---|------|-------------|------|-----|----|-----|-----|
|                   | HP       | KW   |                   |        | 1   | 1,4  | 1,8         | 2,2  | 2,6 | 3  | 3,4 | 3,8 |
|                   |          |      |                   |        | Caudal m <sup>3</sup> /h / Flow m <sup>3</sup> /h |      |             |      |     |    |     |     |
| VSD MAGNUS-4 250  | 0,13     | 0,09 | 0,25              | 580    | 21  | 15,5 | <b>9,5</b>  | 2    | -   | -  | -   | -   |
| VSD MAGNUS-4 300  | 0,17     | 0,12 | 0,3               | 580    | 25  | 20   | <b>14,5</b> | 8    | -   | -  | -   | -   |
| VSD MAGNUS-4 400  | 0,22     | 0,16 | 0,38              | 580    | 28,5  | 24,5 | <b>20</b>   | 14,5 | 8   | -  | -   | -   |
| VSD MAGNUS-4 550  | 0,32     | 0,23 | 0,5               | 580    | 44  | 35   | <b>24</b>   | 9    | -   | -  | -   | -   |
| VSD MAGNUS-4 750  | 0,44     | 0,32 | 0,7               | 580    | 54  | 46   | <b>36</b>   | 85   | 10  | -  | -   | -   |
| VSD MAGNUS-4 1000 | 0,62     | 0,45 | 0,9               | 580    | 63  | 55   | <b>46</b>   | 34   | 19  | -  | -   | -   |
| VSD MAGNUS-2 1250 | 0,77     | 0,57 | 1                 | 1.160  | 68  | 64   | <b>57</b>   | 48   | 39  | 27 | 5   | -   |
| VSD MAGNUS-2 1500 | 0,95     | 0,70 | 1,3               | 1.160  | 75  | 71   | <b>66</b>   | 60   | 53  | 44 | 32  | 2   |

LOS DATOS INDICADOS TIENEN UN FIN ORIENTATIVO Y PUEDEN TENER DIFERENCIAS EN UNA INSTALACION REAL  
 THE INDICATED DATA HAVE A GUIDANCE PURPOSE AND MAY HAVE DIFFERENCES IN A REAL INSTALLATION

# [e]MAGNUS

efficiency class

# IE5

Variador de frecuencia y motor de imanes permanentes

*Frequency drive and permanent magnet motor*



#### Aplicaciones:

La bomba [e]MAGNUS es la nueva generación de bombas para filtración de piscina pública que incorporan un variador de velocidad a una bomba MAGNUS con motor síncrono de imanes permanentes de altísima eficiencia energética. El software está especialmente desarrollado para la automatización de la bomba. Gracias a un sencillo asistente, se proporciona la información necesaria a la bomba para tener una instalación completamente operativa. El Sistema permite la programación de varios ciclos de filtración diarios con diferente velocidad de funcionamiento para cada ciclo. En instalaciones con varias bombas, las bombas se comunicarán entre ellas para trabajar el mismo número de horas. Además, es capaz de hacer funcionar varias bombas a la vez.

#### Características principales:

- Ahorro energético muy significativo debido a que la bomba puede modificar su velocidad de trabajo a los requerimientos de la instalación.
- Diferentes velocidades de trabajo para diferentes programaciones.
- Comunicación entre varias bombas.
- Alternancia de trabajo por tiempo.
- Conjunto bomba-variador extremadamente silencioso.
- **Sistema automático de limpieza de filtros de arena.**
- Protección de sobrecarga del motor por consumo.
- Sistema de auto aprendizaje para la búsqueda constante de los parámetros que determinan un funcionamiento en seco.
- **Nuevo motor brushless IPM sensorless de imanes permanentes, que reduce la temperatura del motor de manera extrema, lo cual alarga la vida útil de rodamientos y partes mecánicas.**

#### Motor:

Síncrono de imanes permanentes. Grado de protección IP-55. Aislamiento clase F. Doble frecuencia 50 Hz y 60 Hz. Rodamientos engrasados de por vida, garantizando una larga duración y un trabajo silencioso.



#### Applications:

The [e]MAGNUS pump is the new generation of public pool filtration pumps that incorporate a variable speed drive to a MAGNUS pump with extremely high energy efficiency permanent magnet synchronous motor. The software is specially developed for the automation of the pump. Thanks to a simple wizard, the necessary information is provided to the pump to have a fully operational installation. The System allows the programming of several daily filtration cycles with different operating speeds for each cycle. In installations with several pumps, the pumps will communicate with each other to work the same number of hours. In addition, it is capable of operating several pumps at the same time.

#### Main features:

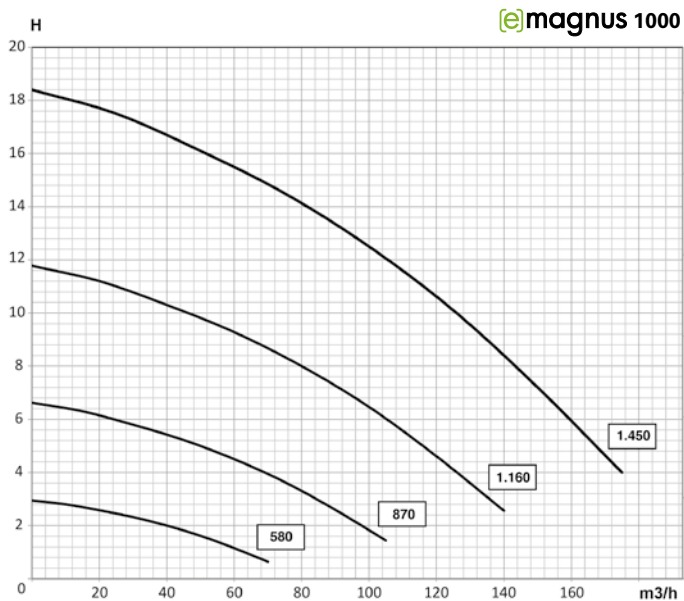
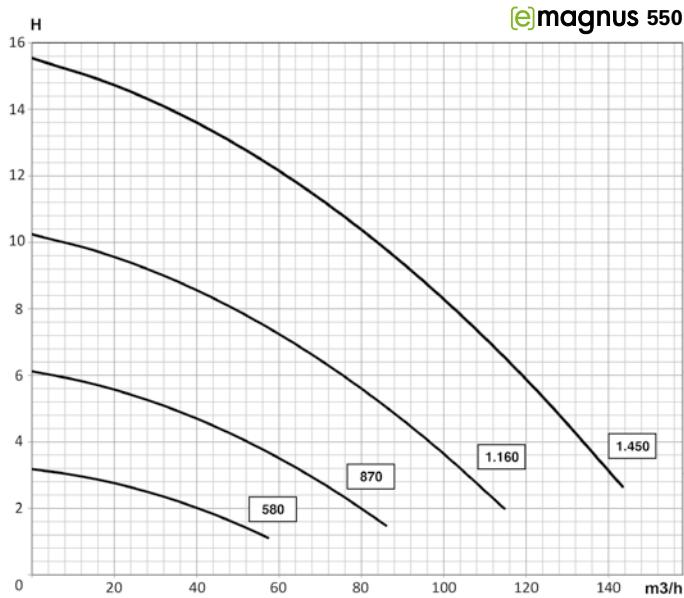
- Very significant energy savings due to the fact that the pump can modify its working speed to the installation requirements.
- Different working speeds for different programming.
- Communication between several pumps.
- Alternating work by time.
- Extremely silent pump-inverter set.
- **Automatic sand filter cleaning system.**
- Consumption motor overload protection.
- Self-learning system for the constant search of the parameters that determine a dry operation.
- **New IPM sensorless permanent magnet brushless motor, which reduces the temperature of the motor in an extreme way, which extends the useful life of bearings and mechanical parts.**

#### Motor:

Synchronous permanent magnets. Degree of protection IP-55. Class F insulation. Double frequency 50 Hz and 60 Hz. Bearings greased for life, guaranteeing a long life and a silent work.



Datos técnicos / Technical data



| Tipo<br>Type   | Potencia |     | "A"<br>III<br>400 | Altura m.c.a. / Height w.c.m. |     |            |     |    |    |    | Diámetro |      | Mínimo diámetro de aspiración<br>Minimum size of suction pipe |
|----------------|----------|-----|-------------------|-------------------------------|-----|------------|-----|----|----|----|----------|------|---|
|                | HP       | KW  |                   | 6                             | 8   | 10         | 12  | 14 | 16 | 18 | ASP.     | IMP  |   |
|                |          |     |                   |                               |     |            |     |    |    |    |          |      | Caudal m <sup>3</sup> /h / Flow m <sup>3</sup> /h             |
| [e]MAGNUS 550  | 5,5      | 4   | 8,8               | 123                           | 104 | <b>84</b>  | 30  | 57 | -  | -  |          |      | 160   |
| [e]MAGNUS 1000 | 10       | 7,5 | 15,8              | 160                           | 145 | <b>126</b> | 107 | 80 | 48 | 14 | (4")     | (4") | 180   |

# CF-2



# VERT CF-2



a 2.850 r.p.m.

### Aplicaciones:

**Bombas para filtración con motor a 2.850rpm**, que también permiten funcionar con variador de velocidad e]POOL.

### Características constructivas:

Cuerpo bomba, soporte, prefiltro, acoplamiento y turbina en fundición de hierro de alta calidad con un pretratamiento de pintura epoxi-poliéster y secado al horno para darle más durabilidad y resistencia a la oxidación, sello mecánico en cerámica carbón, eje y cesto prefiltro en acero inoxidable AISI-316. Bombas monobloc que equipan un motor normalizado a través de un acoplamiento eje-bomba motor. **Bajo demanda pueden suministrarse con turbina de bronce.**

### Motor:

IE3 motor asíncrono standard, cerrado de ventilación externa, apto para trabajo continuo. **Grado de protección IP-55. Aislamiento clase F (calentamiento "B") tropicalizados a 2.850 r.p.m. 50 Hz y bajo demanda 60 Hz.**



### Applications:

**Pumps for filtration with motor at 2.850rpm**, which also allow operation with a e]POOL speed drive.

### Constructive characteristics:

Pump body, pre-filter, coupling and impeller in cast iron. Shaft and pre-filter basket in AISI 316 stainless steel. Mechanical seal in carbon-ceramic. **On request, the impeller may be in bronze and the mechanical seal in silicium carbide or tungsten carbon.**

### Motor:

IE3 standard asynchronous motor, sealed from external ventilation. **Its standard construction allows it to be replaced with another standard motor at any time and in any place. Protection IP-54. 2,850 rpm. 50-60 Hz.** Another advantage, is that totally standard spare motors are available anywhere in the world, at any time and of any brand.



| Tipo Horizontal<br><i>Horizontal Type</i> | Tipo Vertical<br><i>Vertical Type</i> | HP   | KW  | "A"  |      | Altura m.c.a. / Height w.c.m.                     |       |     |     |     |     |     |     |    |    | Ø ASP. | Ø IMP. |    |
|---|---------------------------------------|------|-----|------|------|---|-------|-----|-----|-----|-----|-----|-----|----|----|--------|--------|----|
|   |                                       |      |     |      |      | 230 V   | 400 V | 6   | 8   | 10  | 12  | 14  | 16  | 18 | 20 |        |        | 22 |
|   |                                       |      |     |      |      | Caudal m <sup>3</sup> /h / Flow m <sup>3</sup> /h |       |     |     |     |     |     |     |    |    |        |        |    |
| CF-2 300                                  | VERT CF-2 300                         | 3    | 2,2 | 9    | 5,2  | 61  | 54    | 51  | 46  | 35  | 29  |     |     |    |    | DN 80  | DN 80  |    |
| CF-2 400                                  | VERT CF-2 400                         | 4    | 3   | 12   | 6,9  | 70  | 64    | 59  | 55  | 49  | 42  | 30  |     |    |    | DN 80  | DN 80  |    |
| CF-2 550                                  | VERT CF-2 550                         | 5,5  | 4   | 16,5 | 9,5  | 95  | 90    | 84  | 77  | 66  | 54  | 32  |     |    |    | DN 125 | DN 100 |    |
| CF-2 551                                  | VERT CF-2 551                         | 5,5  | 4   | 16,5 | 9,5  | 128   | 121   | 107 | 90  | 69  | 30  |     |     |    |    | DN 125 | DN 100 |    |
| CF-2 750                                  | VERT CF-2 750                         | 7,5  | 5,5 | -    | 12,5 | 159   | 152   | 135 | 125 | 109 | 88  | 60  |     |    |    | DN 125 | DN 100 |    |
| CF-2 1000                                 | VERT CF-2 1000                        | 10   | 7,5 | -    | 15,5 | 175   | 166   | 158 | 147 | 135 | 119 | 98  | 68  |    |    | DN 125 | DN 100 |    |
| CF-2 1250                                 | VERT CF-2 1250                        | 12,5 | 9,2 | -    | 19   | 195   | 188   | 175 | 163 | 150 | 136 | 105 | 86  |    |    | DN 125 | DN 100 |    |
| CF-2 1500                                 | VERT CF-2 1500                        | 15   | 11  | -    | 23   | 200   | 197   | 193 | 183 | 170 | 155 | 132 | 110 | 87 |    | DN 125 | DN 100 |    |

# HF-2



# VERT HF-2



a 2.850 r.p.m.



### Aplicaciones:

**Bomba para filtración a gran altura con motor a 2.850 rpm**, que también permiten funcionar con variador de velocidad [e]POOL.

### Características constructivas:

Cuerpo bomba, soporte, prefiltro, acoplamiento y turbina en fundición de hierro de alta calidad con un pretratamiento de pintura epoxi-poliéster y secado al horno para darle más durabilidad y resistencia a la oxidación, sello mecánico en cerámica carbón, eje y cesto prefiltro en acero inoxidable AISI-316. Bombas monobloc que equipan un motor normalizado a través de un acoplamiento eje-bomba motor. **Bajo demanda pueden suministrarse con turbina de bronce.**

### Motor:

IE3 motor asíncrono standard, cerrado de ventilación externa, apto para trabajo continuo. **Grado de protección IP-55. Aislamiento clase F (calentamiento "B") tropicalizados a 2.850 r.p.m. 50 Hz y bajo demanda 60 Hz.**



### Applications:

**Pumps for filtration at high altitude with motor at 2.850rpm**, which also allow operation with a [e]POOL speed drive.

### Constructive characteristics:

Pump body, pre-filter, coupling and impeller in cast iron. Shaft and pre-filter basket in AISI 316 stainless steel. Mechanical seal in carbon-ceramic. **On request, the impeller may be in bronze and the mechanical seal in silicium carbide or tungsten carbon.**

### Motor:

IE3 standard asynchronous motor, sealed from external ventilation. **Its standard construction allows it to be replaced with another standard motor at any time and in any place. Protection IP-54. 2,850 rpm. 50-60 Hz.** Another advantage, is that totally standard spare motors are available anywhere in the world, at any time and of any brand.

| Tipo Horizontal<br>Horizontal Type | Tipo Vertical<br>Vertical Type | HP  | KW   | "A"         |      | Altura m.c.a. / Height w.c.m. |     |     |     |     |     |     |     | Ø ASP. | Ø IMP. |       |
|------------------------------------|--------------------------------|-----|------|-------------|------|-------------------------------|-----|-----|-----|-----|-----|-----|-----|--------|--------|-------|
|                                    |                                |     |      |             |      | 18                            | 20  | 22  | 24  | 25  | 27  | 30  | 32  |        |        | 35    |
|                                    |                                |     |      | 230 V 400 V |      | Caudal m³/h / Flow m³/h       |     |     |     |     |     |     |     |        |        |       |
| HF-2 308                           | VERT HF-2 308                  | 3   | 2,2  | 8,5         | 5,2  |                               |     | 18  | 16  | 14  | 12  |     |     |        | DN-65  | DN-32 |
| HF-2 408                           | VERT HF-2 408                  | 4   | 3    | 11,8        | 7,1  |                               | 29  | 26  | 24  | 22  | 18  | 6   |     |        | DN-65  | DN-32 |
| HF-2 558                           | VERT HF-2 558                  | 5,5 | 4    | 16,2        | 9,4  |                               |     | 36  | 34  | 33  | 30  | 25  | 21  | 12     | DN-65  | DN-32 |
| HF-2 758                           | VERT HF-2 758                  | 7,5 | 5,5  | -           | 14,2 |                               |     |     | 54  | 52  | 48  | 41  | 32  |        | DN-65  | DN-40 |
| HF-2 1008                          | VERT HF-2 1008                 | 10  | 7,5  | -           | 16,5 | 102                           | 92  | 83  | 64  | 62  | 42  |     |     |        | DN-65  | DN-50 |
| HF-2 1208                          | VERT HF-2 1208                 | 10  | 7,5  | -           | 16,5 |                               |     |     | 88  | 84  | 74  | 56  | 36  |        | DN-65  | DN-50 |
| HF-2 1508                          | VERT HF-2 1508                 | 15  | 11   | -           | 24,2 |                               |     |     | 117 | 113 | 102 | 78  | 54  |        | DN-80  | DN-65 |
| HF-2 2008                          | VERT HF-2 2008                 | 20  | 15   | -           | 32   |                               | 165 | 140 | 125 | 118 | 114 | 85  |     |        | DN-100 | DN-80 |
| HF-2 2508                          | VERT HF-2 2508                 | 25  | 18,5 | -           | 41,5 |                               | 240 | 225 | 200 | 190 | 175 | 145 | 125 | 72     | DN-100 | DN-80 |

PARA MÁS INFORMACIÓN CONSULTAR NUESTRO CATÁLOGO TÉCNICO DE BOMBAS PARA PISCINAS  
CHECK OUR TECHNICAL CATALOGUE OF SWIMMING POOL PUMPS FOR MORE INFORMATION

# CF-4



# VERT CF-4



### Aplicaciones:

**Bombas para filtración con motor a 1.450rpm**, que también permiten funcionar con variador de velocidad e]POOL.

### Características constructivas:

Cuerpo bomba, soporte, prefiltro y turbina en fundición de hierro. Eje-acoplamiento y cesto prefiltro en acero inoxidable. Cierre mecánico en carbón-carburo de silicio. Bombas monobloc que equipan un motor normalizado a través de un acoplamiento eje-bomba motor.

**Bajo demanda pueden suministrarse con turbina de bronce.**

### Motor:

IE3 motor asíncrono standard, cerrado de ventilación externa, apto para trabajo continuo. **Grado de protección IP-55. Aislamiento clase F (calentamiento "B") tropicalizados a 1.450 r.p.m. 50 Hz y bajo demanda 60 Hz. Estas bombas no equipan contrabridas de serie.**

a 1.450 r.p.m.



### Applications:

*Pumps for filtration with motor at 1.450rpm, which also allow operation with a e]POOL speed drive.*

### Constructive characteristics:

*Pump body, support, pre-filter and impeller in cast iron. Shaft-coupling and pre-filter sieve in AISI 316 stainless steel. Mechanical seal in carbon - silicium carbide. **On demand the CF-4 pump range may be supplied with bronze impeller** (standard in cast iron) or with other versions of mechanical seal, such as : tungsten carbon, aisi 316, epdm, viton etc...*

### Motor:

*IE3 standard asynchronous motor, sealed from external ventilation. Its standard construction allows it to be replaced with another standard motor at any time and in any place. **Protection IP-55. 1,450 rpm. 50-60 Hz.***

| Tipo Horizontal<br>Horizontal Type | Tipo Vertical<br>Vertical Type | HP  | KW   | "A"   |       | Altura m.c.a. / Height w.c.m. |     |     |     |     |     |     |     |     |   | Ø ASP. | Ø IMP. |        |
|------------------------------------|--------------------------------|-----|------|-------|-------|-------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|---|--------|--------|--------|
|                                    |                                |     |      | 230 V | 400 V | 9                             | 10  | 12  | 14  | 15  | 16  | 18  | 20  | 21  | Caudal m <sup>3</sup> /h / Flow m <sup>3</sup> /h |        |        |        |
| CF-4 300                           | VERT CF-4 300                  | 3   | 2,2  | 9,4   | 5,3   | 54                            | 50  | 44  | 30  | 20  |     |     |     |     |   |        | DN 65  | DN 50  |
| CF-4 400                           | VERT CF-4 400                  | 4   | 3    | 12,5  | 6,9   |                               | 70  | 67  | 50  | 36  | 20  |     |     |     |   |        | DN 80  | DN 65  |
| CF-4 550                           | VERT CF-4 550                  | 5,5 | 4    | 17    | 9,2   |                               |     | 84  | 72  | 66  | 54  | 20  |     |     |   |        | DN 80  | DN 65  |
| CF-4 552                           | VERT CF-4 552                  | 5,5 | 4    | 17    | 9,2   | 120                           | 110 | 78  | 28  |     |     |     |     |     |   |        | DN 100 | DN 80  |
| CF-4 750                           | VERT CF-4 750                  | 7,5 | 5,5  | -     | 12    |                               |     | 124 | 104 | 90  | 72  |     |     |     |   |        | DN 100 | DN 80  |
| CF-4 1000                          | VERT CF-4 1000                 | 10  | 7,5  | -     | 15,5  |                               | 210 | 175 | 130 | 90  | 60  |     |     |     |   |        | DN 125 | DN 100 |
| CF-4 1500                          | VERT CF-4 1500                 | 15  | 11   | -     | 21,8  |                               |     | 215 | 200 | 190 | 180 | 150 | 120 | 60  |   |        | DN 125 | DN 100 |
| CF-4 2000                          | VERT CF-4 2000                 | 20  | 15   | -     | 32    |                               |     | 320 | 300 | 275 | 260 | 210 | 102 |     |   |        | DN 150 | DN 125 |
| CF-4 2500                          | VERT CF-4 2500                 | 25  | 18,5 | -     | 39    |                               |     |     | 360 | 340 | 310 | 280 | 220 | 190 |   |        | DN 150 | DN 125 |

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# HF-4



# VERT HF-4



a 1.450 r.p.m.



### Aplicaciones:

**Bombas para filtración a gran altura con motor a 1.450rpm**, que también permiten funcionar con variador de velocidad [e]POOL.

### Características constructivas:

Cuerpo bomba, soporte, prefiltro y turbina en fundición de hierro. Eje-acoplamiento y cesto prefiltro en acero inoxidable. Cierre mecánico en carbón-carburo de silicio. Bombas monobloc que equipan un motor normalizado a través de un acoplamiento eje-bomba motor. **Bajo demanda pueden suministrarse con turbina de bronce.**

### Motor:

IE3 motor asíncrono standard, cerrado de ventilación externa, apto para trabajo continuo. **Grado de protección IP-55. Aislamiento clase F (calentamiento "B") tropicalizados a 1.450 r.p.m. 50 Hz y bajo demanda 60 Hz.**



### Applications:

**Pumps for filtration at high altitude with motor at 1.450rpm**, which also allow operation with a [e]POOL speed drive.

### Constructive characteristics:

Pump body, support, pre-filter and impeller in cast iron. Shaft-coupling and pre-filter sieve in AISI 316 stainless steel. Mechanical seal in carbon - silicon carbide. **On demand the CF-4 pump range may be supplied with bronze impeller** (standard in cast iron) or with other versions of mechanical seal, such as: tungsten carbon, aisi316, epdm, viton etc...

### Motor:

IE3 standard asynchronous motor, sealed from external ventilation. It's standard construction allows it to be replaced with another standard motor at any time and in any place. **Protection IP-55. 1,450 rpm. 50-60 Hz.**

| Tipo Horizontal<br>Horizontal Type | Tipo Vertical<br>Vertical Type | HP  | KW   | "A"   |       | Altura m.c.a. / Height w.c.m.                     |     |     |     |     |     |     |     |     |     | Ø ASP. | Ø IMP. |        |
|------------------------------------|--------------------------------|-----|------|-------|-------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|--------|--------|
|                                    |                                |     |      |       |       | 18  | 20  | 22  | 24  | 25  | 27  | 30  | 32  | 35  |     |        |        |        |
|                                    |                                |     |      | 230 V | 400 V | Caudal m <sup>3</sup> /h / Flow m <sup>3</sup> /h |     |     |     |     |     |     |     |     |     |        |        |        |
| HF-4 308                           | VERT HF-4 308                  | 3   | 2.2  | 8,5   | 5,5   | 23  | 13  |     |     |     |     |     |     |     |     |        | DN-65  | DN-40  |
| HF-4 408                           | VERT HF-4 408                  | 4   | 3    | 11,8  | 6,9   |   | 27  | 19  |     |     |     |     |     |     |     |        | DN-65  | DN-40  |
| HF-4 558                           | VERT HF-4 558                  | 5,5 | 4    | 16,2  | 9,2   | 51  | 43  | 33  |     |     |     |     |     |     |     |        | DN-65  | DN-50  |
| HF-4 758                           | VERT HF-4 758                  | 7,5 | 5,5  | -     | 12    | 75  | 64  | 50  | 12  |     |     |     |     |     |     |        | DN-80  | DN-65  |
| HF-4 1008                          | VERT HF-4 1008                 | 10  | 7,5  | -     | 15,5  |   | 85  | 75  | 63  | 54  |     |     |     |     |     |        | DN-80  | DN-65  |
| HF-4 1508                          | VERT HF-4 1508                 | 15  | 11   | -     | 21,8  |   |     | 110 | 90  | 72  |     |     |     |     |     |        | DN-100 | DN-80  |
| HF-4 2008                          | VERT HF-4 2008                 | 20  | 15   | -     | 32    |   | 190 | 160 | 120 | 102 |     |     |     |     |     |        | DN-125 | DN-100 |
| HF-4 2508                          | VERT HF-4 2508                 | 25  | 18,5 | -     | 41,5  |   |     |     | 170 | 160 | 140 | 120 | 30  |     |     |        | DN-125 | DN-100 |
| HF-4 3008                          | VERT HF-4 3008                 | 30  | 22   | -     | 52    |   |     |     |     | 210 | 200 | 190 | 160 | 135 | 102 |        | DN-125 | DN-100 |

# HIERRO CAST IRON



### Generalidades:

Bridas de entrada y salida según norma DIN 2501 con conexiones a partir de DN 65 (21/2") hasta DN 200 (8") provistos de 3-4 pomos de cierre (según modelos) para la perfecta estanqueidad de la tapa.

### Características constructivas:

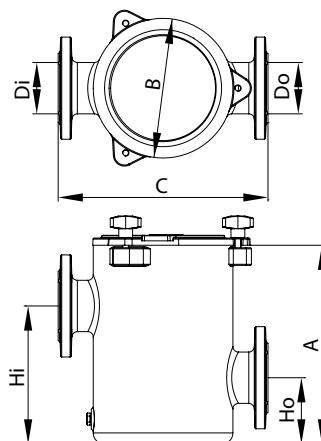
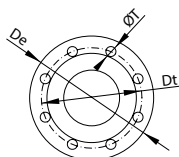
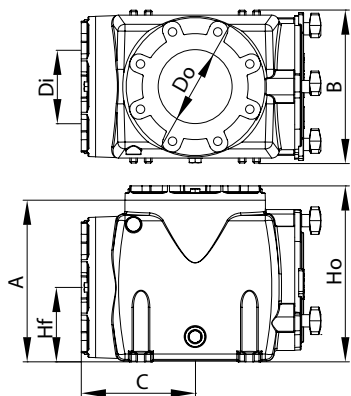
Vaso y tapa prefiltro en fundición de hierro con un pretratamiento de pintura epoxi-poliéster y secado al horno para darle más durabilidad y resistencia a la oxidación, con pomos y cesta en acero inoxidable AISI-316.

### Generals:

Inlet and outlet clamps according to DIN 2501 with connections from DN 65 (21/2") to DN 200 (8") with 3-4 closing handles (depending on model) for a perfect lid seal.

### Constructive characteristics:

Pot and pre-filter lid in cast iron. With epoxy-polyester paint. Prefilter basket and prefilter handles in stainless steel AISI 316.



| Tipo/Type           | Di  | Do  | Hi  | Ho  | A   | B   | C   | De  | Dt  | ØT  | Agujeros<br>Holes |
|---------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------------------|
| <b>F 65/65</b>      | 65  | 65  | 250 | 120 | 360 | 253 | 380 | 185 | 145 | 18  | 4                 |
| <b>F 80/80 (4T)</b> | 80  | 80  | 250 | 120 | 360 | 253 | 380 | 200 | 160 | 18  | 4                 |
| <b>F 80/80 (8T)</b> | 80  | 80  | 250 | 120 | 360 | 253 | 380 | 200 | 160 | 18  | 8                 |
| <b>F 100/100</b>    | 100 | 100 | 270 | 155 | 360 | 253 | 380 | 222 | 180 | 18  | 8                 |
| <b>F 125/125</b>    | 125 | 125 | 270 | 155 | 360 | 253 | 380 | 250 | 210 | 18  | 8                 |
| <b>F 150/150</b>    | 150 | 150 | 380 | 190 | 500 | 330 | 460 | 285 | 240 | 22  | 8                 |
| <b>F 200/200</b>    | 200 | 200 | 380 | 190 | 500 | 330 | 460 | 340 | 295 | 22  | 8                 |
| <b>V 65/65</b>      | 65  | 65  | 151 | 357 | 328 | 310 | 231 | 285 | M16 | M16 | 4                 |
| <b>V 80/80</b>      | 80  | 80  | 151 | 357 | 328 | 310 | 231 | 285 | M16 | M16 | 8                 |
| <b>V 100/100</b>    | 100 | 100 | 151 | 357 | 328 | 310 | 231 | 285 | M16 | M16 | 8                 |
| <b>V 125/125</b>    | 125 | 125 | 151 | 357 | 328 | 310 | 231 | 285 | M16 | M16 | 8                 |
| <b>V 150/150</b>    | 150 | 150 | 151 | 357 | 328 | 310 | 231 | 285 | M20 | M20 | 8                 |



# INOX

acero inoxidable AISI-316L  
stainless steel AISI-316L



IV



**Generalidades:**

Bridas de entrada y salida según norma DIN 2501 con conexiones a partir de DN-65 (2 1/2") hasta DN 250 (10") provistos de 5 pomos de cierre en AISI-316 para la perfecta estanqueidad de la tapa.

**Características constructivas:**

Completamente en acero inoxidable AISI-316L.



**Generals:**

Inlet and outlet clamps according to DIN 2501 with connections from DN-65 (2 1/2") to DN 200 (8") with 5 closing handles in AISI-316 for a perfect lid seal.

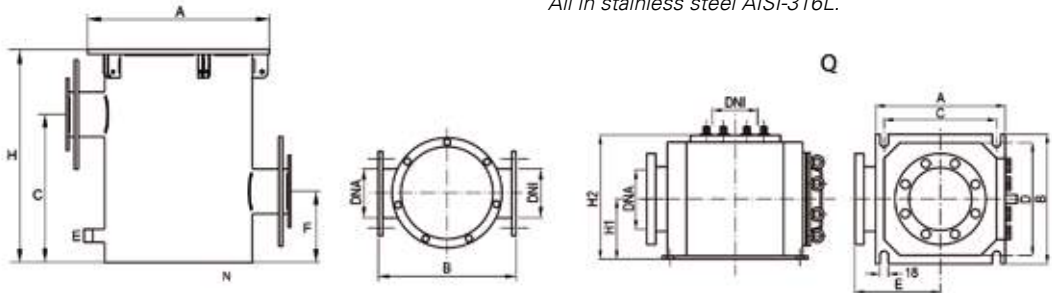
**Constructive characteristics:**

All in stainless steel AISI-316L.

IH



Datos embalage  
Packaging data



| Tipo/Type  | A   | B   | C   | E    | F   | H   | H1  | H2  | DNA | DNI | Peso Kg. | Volumen Lts. |
|------------|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|----------|--------------|
| IH 65/65   | 308 | 380 | 250 | 1/2" | 120 | 430 |     |     | 65  | 65  | 26       | 17           |
| IH 80/80   | 308 | 380 | 250 | 1/2" | 120 | 430 |     |     | 80  | 80  | 28       | 17           |
| IH 100/100 | 308 | 380 | 270 | 1/2" | 155 | 430 |     |     | 100 | 100 | 40       | 17           |
| IH 125/125 | 308 | 380 | 270 | 1/2" | 155 | 430 | 460 |     | 125 | 125 | 48       | 17           |
| IH 150/150 | 398 | 460 | 380 | 1/2" | 190 | 610 |     |     | 150 | 150 | 52       | 48           |
| IH 200/200 | 398 | 460 | 380 | 1/2" | 190 | 610 |     |     | 200 | 200 | 58       | 48           |
| IV 100/80  | 370 | 370 | 330 | 260  |     |     | 150 | 310 | 100 | 80  | 34,2     | 42           |
| IV 125/100 | 370 | 370 | 330 | 260  |     |     | 150 | 310 | 125 | 100 | 37,4     | 42           |
| IV 150/125 | 450 | 450 | 400 | 290  |     |     | 185 | 380 | 150 | 125 | 53,9     | 77           |
| IV 250/150 | 435 | 535 | 390 | 290  |     |     | 215 | 440 | 250 | 150 | 72,6     | 105          |

# BR-2

bronce / bronze



### Aplicaciones:

Bomba centrífuga en bronce marino de gran caudal con motor a 2.850 r.p.m., que incorporan un prefiltro en la aspiración, lo cual hace de ellas la bomba ideal para grandes equipos de filtración, especialmente en instalaciones con agua salada.

### Características constructivas:

Cuerpo bomba, soporte, prefiltro y turbina en bronce. Eje y cesto prefiltro en acero inoxidable AISI 316. Cierre mecánico en carbón-cerámica y acero inoxidable AISI 316.

Bombas monobloc que equipan un motor normalizado a través de un acoplamiento eje-bomba motor.

### Motor:

IE3 motor asíncrono standard, cerrado de ventilación externa, apto para trabajo continuo.

**Grado de protección IP-55. Aislamiento clase F (calentamiento "B") tropicalizados a 2.850 r.p.m. 50 Hz y bajo demanda 60 Hz.**



### Applications:

A large volume centrifugal pump, to which a pre-filter has been applied in the inlet, making these the ideal pumps for large filtering units. The bronze version is ideal for salt water and automatic pool systems that use salt electrolysis as a means of disinfecting.

### Constructive characteristics:

Pump body, pre-filter, support and impeller DIN-1705 RG 5 bronze (G-CuSn 5 ZnPb). Shaft, pre-filter basket and bolts in AISI 316 stainless steel. Cast iron coupling. Mechanical seal in carbon-ceramic and AISI 316 stainless steel.

On request, these pumps may be supplied in any other bronze alloy.

### Motor:

IE3 standard asynchronous motor, sealed from external ventilation. **Its standard construction allows it to be replaced with another standard motor at any time and in any place. Protection IP-54. 2,850 rpm. 50-60 Hz.**

| Tipo<br>Type      | HP   | KW  | R.P.M | "A"   |       | Altura m.c.a. / Height w.c.m. |     |     |     |     |     |     |     | Ø<br>ASP. | Ø<br>IMP. |        |
|-------------------|------|-----|-------|-------|-------|-------------------------------|-----|-----|-----|-----|-----|-----|-----|-----------|-----------|--------|
|                   |      |     |       |       |       | 6                             | 8   | 10  | 12  | 14  | 16  | 18  | 20  |           |           | 22     |
|                   |      |     |       | 230 V | 400 V | Caudal m³/h / Flow m³/h       |     |     |     |     |     |     |     |           |           |        |
| <b>BR-2 300</b>   | 3    | 2,2 | 2.850 | 9     | 5,2   | 61                            | 54  | 51  | 46  | 35  | 29  |     |     |           | DN 80     | DN 80  |
| <b>BR-2 400</b>   | 4    | 3   | 2.850 | 12    | 6,9   | 70                            | 64  | 59  | 55  | 49  | 42  | 30  |     |           | DN 80     | DN 80  |
| <b>BR-2 550</b>   | 5,5  | 4   | 2.850 | 16,5  | 9,5   | 95                            | 90  | 84  | 77  | 66  | 54  | 32  |     |           | DN 125    | DN 100 |
| <b>BR-2 551</b>   | 5,5  | 4   | 2.850 | 16,5  | 9,5   | 128                           | 121 | 107 | 90  | 69  | 30  |     |     |           | DN 125    | DN 100 |
| <b>BR-2 750*</b>  | 7,5  | 5,5 | 2.850 | -     | 12,5  | 159                           | 152 | 135 | 125 | 109 | 88  | 60  |     |           | DN 125    | DN 100 |
| <b>BR-2 1000*</b> | 10   | 7,5 | 2.850 | -     | 15,5  | 175                           | 166 | 158 | 147 | 135 | 119 | 98  | 68  |           | DN 125    | DN 100 |
| <b>BR-2 1250*</b> | 12,5 | 9,2 | 2.850 | -     | 19    | 195                           | 188 | 175 | 163 | 150 | 136 | 105 | 86  |           | DN 125    | DN 100 |
| <b>BR-2 1500*</b> | 15   | 11  | 2.850 | -     | 23    | 200                           | 197 | 193 | 183 | 170 | 155 | 132 | 110 | 87        | DN 125    | DN 100 |

En los modelos de 3 y 4 CV recomendamos la instalación con tubo de 90 mm. (For 3-4 HP we recommend minimum 90 mm. pipe)

\* Voltaje de Serie 400/690 V (bajo demanda 230/400 V) / \*Standard voltage 400/690 V (under demand 230/400 V)

PARA MÁS INFORMACIÓN CONSULTAR NUESTRO CATÁLOGO TÉCNICO DE BOMBAS PARA PISCINAS  
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# POOLMATIC



### Aplicaciones:

Bombas centrifugas multicelulares horizontales, extremadamente silenciosa especialmente concebida para trabajar con limpiafondos automáticos ya sea en piscinas con agua clorada como con agua tratada con electrolisis salina.

### Características constructivas:

Cuerpo bomba, turbinas y difusores en tecnopolimero, disco porta sello y eje en Acero Inoxidable AISI 316, cierre mecánico en carbon cerámica.

### Motor:

IE3 asincrono, cerrado de ventilación externa. Aislamiento clase F.

**Maxima temperatura ambiente: 40° C**  
**Maxima temperatura del agua: +40° C**



### Applications:

Multistage centrifugal pump, extremely silent a specially designed to work with automatic pool cleaners. This pump can be used rather with chlorinated water or with pools treated with salt electrolisis.

### Constructive characteristics:

Pump body, impellers & diffusers in techno polymer. Pump body lid and shaft in stainless steel AISI 316, mechanical seal in carbon ceramic.

### Motor:

IE3 asynchronous, close with external ventilation. Isolation type F. 2,850 rpm. 50Hz

**Maximum ambient temperature: 40° C**  
**Maximum water temperature: +40° C**

| Tipo<br>Type      | Con.<br>µF | Potencia |      | "A"       |            |            | Caudal m <sup>3</sup> /h / Flow m <sup>3</sup> /h |       |      |      |      |      |      |      | Diámetro |      |      |
|-------------------|------------|----------|------|-----------|------------|------------|---|-------|------|------|------|------|------|------|----------|------|------|
|                   |            | HP       | KW   | II<br>230 | III<br>230 | III<br>400 | 0   | 0,6   | 1,2  | 1,8  | 2,4  | 3    | 3,6  | 4,2  | 4,8      | ASP. | IMP. |
|                   |            |          |      |           |            |            | Altura m.c.a. / Height w.c.m.                     |       |      |      |      |      |      |      |          |      |      |
| POOLMATIC 30/50 M | 12,5       | 0,75     | 0,55 | 3,9       | -          | -          | 42,2  | 40,25 | 38,2 | 36,2 | 33,8 | 30   | 24,8 | 19,5 | 14       | 1"   | 1"   |
| POOLMATIC 30/50 T | -          |          |      | -         | 2,8        | 1,6        |   |       |      |      |      |      |      |      |          |      |      |
| POOLMATIC 40/50 M | 25         | 1        | 0,75 | 5,3       | -          | -          | 57,7  | 55,3  | 52,8 | 50,1 | 47,1 | 42,7 | 35,8 | 28   | 19,2     | 1"   | 1"   |
| POOLMATIC 40/50 T | -          |          |      | -         | 3,8        | 2,2        |   |       |      |      |      |      |      |      |          |      |      |

# BRAVUS

natación contra corriente  
*countercurrent swimming*



también disponible VSD BRAVUS  
*also available VSD BRAVUS*



**Bravus:**

- Polipropileno + Fibra de Vidrio
- AISI-316 stainless steel shaft
- Rodete en Noryl
- Sello mecánico en acero inoxidable AISI-316
- Ideal para instalación de natación contracorriente

**Características:**

- Doble conexión, rosca y racores
- Rosca hembra 3", racor encolar DN90
- **Pintura por cataforesis**
- Tornillería en acero inoxidable AISI-316
- Motor asíncrono IE3 a 2900 rpm (3450 rpm @ 60 Hz)
- Rodamientos lubricados de por vida
- Grado IP-55, Aislamiento clase F
- Máxima temperatura del agua: +40°C



**Bravus:**

- *Polypropylene + Fiberglass*
- *Eje en acero inoxidable AISI-316*
- *Impeller in Noryl*
- *Mechanical seal in stainless steel AISI-316*
- *Ideal for countercurrent swimming installation*

**Features:**

- *Double connection, thread and fittings*
- *3" female thread, fittings glue DN90*
- **Cataphoresis painting**
- *Stainless steel screws AISI-316*
- *IE3 asynchronous motor at 2900 rpm (3450 rpm @ 60 Hz)*
- *Lubricated bearings for life*
- *IP-55 Grade, Class F Insulation*
- *Maximum water temperature: + 40°C*

| Tipo / Type           | HP  | kW  | A   |      |     | RPM  | Altura m.c.a / Height w.c.m |    |           |    |    |    | ASP / IMP |             |
|-----------------------|-----|-----|-----|------|-----|------|-----------------------------|----|-----------|----|----|----|-----------|-------------|
|                       |     |     | II  | III  | III |      | 6                           | 8  | 10        | 12 | 14 | 16 |           | 18          |
|                       |     |     | 230 | 230  | 400 |      | Caudal m³/h / Flow m³/h     |    |           |    |    |    |           |             |
| <b>BRAVUS 300 M/T</b> | 3   | 2,2 | 16  | 9,4  | 5,3 | 2900 | 59                          | 54 | <b>47</b> | 39 | 28 | 16 | -         | 3"<br>PVC90 |
| <b>BRAVUS 400 T</b>   | 4   | 3   | -   | 12,5 | 6,9 | 2900 | 68                          | 63 | <b>58</b> | 52 | 45 | 36 | 23        |             |
| <b>BRAVUS 550 T</b>   | 5,5 | 4   | -   | -    | 8,8 | 2900 | 78                          | 74 | <b>70</b> | 65 | 59 | 50 | 39        |             |

# KONTRA

natación contra corriente  
*countercurrent swimming*



también disponible VSD KONTRA  
also available VSD KONTRA



**Kontra:**

- Polipropileno + Fibra de Vidrio
- AISI-316 stainless steel shaft
- Rodete en Noryl o bronce, según modelo
- Sello mecánico en acero inoxidable AISI-316
- Ideal para instalación de natación contracorriente

**Características:**

- Conexión bridas DN110 (4")
- Pintura por catáforesis
- Tornillería en acero inoxidable AISI-316
- Motor asíncrono IE3 a 1450 rpm (1750rpm @ 60Hz)
- Rodamientos lubricados de por vida
- Grado IP-55, Aislamiento clase F
- Máxima temperatura del agua: +40°C

**Kontra:**

- Polypropylene + Fiberglass
- Eje en acero inoxidable AISI-316
- Impeller in Noryl or bronze, depending on type
- Mechanical seal in stainless steel AISI-316
- Ideal for countercurrent swimming installation

**Features:**

- Flanges connection DN110 (4")
- Cataphoresis painting
- Stainless steel screws AISI-316
- IE3 asynchronous motor at 1450rpm (1750rpm @ 60Hz)
- Lubricated bearings for life
- IP-55 Grade, Class F Insulation
- Maximum water temperature: + 40°C



1.450 r.p.m. de 2,5 a 10 HP  
2.850 r.p.m. 12,5 y 15 HP



| Tipo<br>Type                                      | Potencia |     | "A"        |            |            | r.p.m. | Altura m.c.a. / Height w.c.m. |     |     |     |     |     |     |    |    |  | Diámetro<br>ASP. IMP |             |
|---|----------|-----|------------|------------|------------|--------|-------------------------------|-----|-----|-----|-----|-----|-----|----|----|--|----------------------|-------------|
|   | HP       | KW  | III<br>230 | III<br>400 | III<br>690 |        | 6                             | 8   | 10  | 12  | 14  | 16  | 18  | 20 | 22 |  |                      |             |
| Caudal m <sup>3</sup> /h / Flow m <sup>3</sup> /h |          |     |            |            |            |        |                               |     |     |     |     |     |     |    |    |  |                      |             |
| KONTRA-4 250                                      | 2,5      | 1,8 | 8,5        | 4,9        | -          | 1.450  | 53                            | 43  | 32  | 18  |     |     |     |    |    |  | 110<br>(4")          | 110<br>(4") |
| KONTRA-4 300                                      | 3        | 2,2 | 9,4        | 5,3        | -          | 1.450  | 62                            | 54  | 43  | 26  | 10  |     |     |    |    |  |                      |             |
| KONTRA-4 400                                      | 4        | 3   | 12,5       | 6,9        | -          | 1.450  | 74                            | 66  | 56  | 42  | 29  | 14  |     |    |    |  |                      |             |
| KONTRA-4 550                                      | 5,5      | 4   | 15,3       | 8,8        | -          | 1.450  | 123                           | 104 | 84  | 57  | 30  |     |     |    |    |  |                      |             |
| KONTRA-4 750                                      | 7,5      | 5,5 | -          | 12         | 7          | 1.450  | 143                           | 127 | 107 | 85  | 57  | 12  |     |    |    |  |                      |             |
| KONTRA-4 1000                                     | 10       | 7,5 | -          | 15,8       | 9,2        | 1.450  | 160                           | 145 | 126 | 107 | 80  | 48  | 14  |    |    |  |                      |             |
| KONTRA-2 1250                                     | 12,5     | 9,2 | -          | 18,5       | 10,7       | 2.850  |                               | 167 | 152 | 136 | 118 | 99  | 80  | 47 |    |  |                      |             |
| KONTRA-2 1500                                     | 15       | 11  | -          | 20,9       | 12         | 2.850  |                               | 188 | 177 | 162 | 146 | 130 | 112 | 92 | 66 |  |                      |             |

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# SOPLANTES



**Aplicaciones:**

Bombas diseñadas para baños de burbujas, tratamiento de aguas, secado de coches, ventilación/aspiración de polvo, etc...

**Características constructivas:**

**Bombas soplantes construidas íntegramente en fundición de aluminio** y adecuadas para el funcionamiento en continuo. **Con turbinas de canal lateral de etapa simple, sin necesidad de ningún tipo de mantenimiento. Incorpora silenciadores tanto en la aspiración como en la impulsión.**

**Motor:**

Asíncorno hermético de ventilación externa. Protección térmica incorporada. Las versiones monofásicas incorporan condensador. Grado de protección IP-55. Aislamiento clase F.



**Constructive characteristics:**

**Blower pumps constructed entirely in aluminum** and suitable for continuous operation. **Single stage side channel pumps, without any maintenance. Includes inlet and outlet silencers.**

**Motor:**

Sealed asynchronous motor with external ventilation. Built-in thermal protection. Single phase versions includes capacitor. IP-55 protection. Isolation class F.



**Applications:**

Pumps designed for bubble baths, water treatment, car drying, ventilation / dust extraction, etc...

| Tipo<br>Type | Potencia |      | "A"       |            |            | Caudal máximo<br>Max. Flow<br>(m³/h) | Max. Vacío / Pres.<br>Pres. Max<br>(mbar) | Nivel sonoro<br>Noise<br>(db) | Conexiones<br>Connections | Aplicaciones<br>Applications |
|--------------|----------|------|-----------|------------|------------|--------------------------------------|---|-------------------------------|---------------------------|------------------------------|
|              | HP       | KW   | II<br>230 | III<br>230 | III<br>400 |                                      |   |                               |                           |                              |
| 80-370 M     | 0,6      | 0,4  | 2,7       | -          | -          | 80                                   | -120/130                                  | 53                            | 1 1/4"                    | 1Spa pequeño                 |
| 80-400 T     |          |      | -         | 2,6        | 1,5        |                                      |   |                               |                           |                              |
| 140-800 M    | 1,2      | 0,85 | 5         | -          | -          | 145                                  | -160/160                                  | 63                            | 1 1/2"                    | 10 JETS                      |
| 140-850 T    |          |      | -         | 4,2        | 2,4        |                                      |   |                               |                           |                              |
| 140-111 M    | 1,8      | 1,3  | 7,3       | -          | -          | 145                                  | -170/200                                  | 63                            | 1 1/2"                    | 10 JETS                      |
| 140-131 T    |          |      | -         | 6,6        | 3,8        |                                      |   |                               |                           |                              |
| 210-111 M    | 1,8      | 1,3  | 7,3       | -          | -          | 210                                  | -170/170                                  | 64                            | 2"                        | 20 JETS                      |
| 210-131 T    |          |      | -         | 6,6        | 3,8        |                                      |   |                               |                           |                              |
| 210-151 M    | 2        | 1,5  | 9         | -          | -          | 210                                  | -210/220                                  | 64                            | 2"                        | 20 JETS                      |
| 210-161 T    | 2,2      | 1,6  | -         | 7,5        | 4,3        | 210                                  | -210/220                                  | 64                            | 2"                        | 20 JETS                      |
| 315-221 T    | 3        | 2,2  | -         | 10         | 5,8        | 318                                  | -230/230                                  | 69                            | 2"                        | 30 JETS                      |
| 315-301 T    | 4        | 3    | -         | 12,5       | 7,2        | 318                                  | -260/280                                  | 69                            | 2"                        | 30 JETS                      |

# PL



# DOSING KIT



- Bomba de pequeñas dimensiones.
- Caudal constante regulable manualmente.
- Esta bomba es de diafragma activado por solenoide.
- El diafragma es la única pieza móvil.
- Incorpora válvulas de Vitón.
- Equipadas con tubos y accesorios para conexiones de aspiración e impulsión.
- **Voltage 230V 50/60Hz.**

#### Serie PL:

El potenciómetro de regulación de caudal está marcado con doble escala seleccionable por conmutador. La escala azul para regulación de 0 a 100%. La escala roja es de más precisión para regulación de de 0 a 20%.

#### Serie Kit Dosif Ph/Rx:

Kit para control de PH y Redox (Rx) para piscinas domésticas. La bomba peristáltica monitoriza en todo momento el nivel de Ph o de Redox en la piscina, ajustando la frecuencia de bombeo a la necesidad requerida.



- A small pump.
- Constant flow regulable by hand.
- This pump has a solenoid operated diaphragm, which is the only moving part.

- Viton valves.
- Fitted with pipes and accessories for suction and drive connections.
- **Voltage 230V 50/60Hz.**

#### PL series:

The flow regulation potentiometer is marked with a double scale that can be selected by a switch. The blue scale for regulation from 0 to 100%. The red scale is for more precision for regulation from 0 to 22%.

#### Ph/Rx Dosif kit series:

Kit of pump and accessories to control the PH or Rx for domestic pools. The peristaltic pump controls all the time the PH or Rx values, and adjust the pumping frequency to obtain the requested value.

| Tipo<br>Type | Pot.<br>Abs.<br>Watt | Volt.  | A    | Caudal máx.<br>Max. Flow<br>lts./h. | Presion máx.<br>Max. Pressure<br>bar | N.º Impulsos<br>x min. | Alt. Asp.<br>Suction<br>Height |
|--------------|----------------------|--------|------|-------------------------------------|--------------------------------------|------------------------|--------------------------------|
| PL 23        | 40                   | II 230 | 0,18 | 5                                   | 7                                    | 100                    | 2                              |
| PL 50        | 75                   | II 230 | 1,1  | 10                                  | 5                                    | 110                    | 2                              |
| PL 75        | 140                  | II 230 | 2    | 20                                  | 5                                    | 160                    | 2                              |

| Tipo<br>Type  | Pot.<br>Abs.<br>Watt | Caudal máx.<br>Max. Flow<br>lts./h. | Presion máx.<br>Max. Pressure<br>bar | Regulación<br>Regulation<br>PH | Regulación<br>Regulation<br>Redox (Rx) |
|---------------|----------------------|-------------------------------------|--------------------------------------|--------------------------------|--|
| DOSING KIT Ph | 15                   | 1,5                                 | 1,5                                  | 5 - 9                          | -                                      |
| DOSING KIT Rx | 15                   | 1,5                                 | 1,5                                  | -                              | 300 - 900 mV                           |

# FILTRO DOMÉSTICO



Bajo demanda con tapa roscada transparente

*Transparent screw cover under demand*



Filtro laminado para piscina doméstica fabricado en fibra de vidrio reforzado. Resistente a los rayos UV viene equipado con manómetro y válvula selectora de 6 vías.



*Laminated filter for private pools made with reinforced fiber glass. UV resistant includes a manometer and 6 way valve.*

| Modelo<br><i>Model</i> | Ø   | Conexión<br><i>Connection</i> | Sup. Filtrante<br><i>Filtering Surface</i> | Caudal / Flow                         | Arena / Sand | Peso / Weight |
|------------------------|-----|-------------------------------|--|---------------------------------------|--------------|---------------|
|                        | mm  |                               | m <sup>2</sup>                             | v=50 m <sup>3</sup> /h/m <sup>2</sup> | (kg)         | (kg)          |
| <b>SUN 400</b>         | 400 | 1,5"                          | 0,13                                       | 6,5                                   | 50           | 12            |
| <b>SUN 510</b>         | 510 | 1,5"                          | 0,20                                       | 10,2                                  | 100          | 18            |
| <b>SUN 620</b>         | 620 | 1,5"                          | 0,30                                       | 15,1                                  | 150          | 23,5          |
| <b>SUN 680</b>         | 680 | 2"                            | 0,36                                       | 18,14                                 | 175          | 27            |
| <b>SUN 750</b>         | 750 | 2"                            | 0,44                                       | 22                                    | 225          | 33            |
| <b>SUN 900</b>         | 900 | 2"                            | 0,64                                       | 31,8                                  | 325          | 42            |

# KITS DE FILTRACIÓN



Incluyen bomba OPTIMA monofásica junto con filtro laminado con válvula superior de 6 vías. Se incluye la base en fibra de vidrio y el kit de unión.



*Includes OPTIMA single phase pump and laminate filter with 6 ways top valve. Also includes the fiberglass base and the union kit.*



| Modelo<br><i>Model</i> | Ø   | Conexión<br><i>Connection</i> | Sup. Filtrante<br><i>Filtering Surface</i> | Caudal<br><i>Flow</i>                 | Bomba<br><i>Pump</i> | Arena<br><i>Sand</i> | Peso<br><i>Weight</i> |
|------------------------|-----|-------------------------------|--|---------------------------------------|----------------------|----------------------|-----------------------|
|                        | mm  |                               | m <sup>2</sup>                             | v=50 m <sup>3</sup> /h/m <sup>2</sup> | hp                   | (kg)                 | (kg)                  |
| <b>SUN KIT 25</b>      | 400 | 1,5"                          | 0,13                                       | 6,5                                   | 0,25                 | 50                   | 19                    |
| <b>SUN KIT 33</b>      | 400 | 1,5"                          | 0,13                                       | 7,5                                   | 0,33                 | 50                   | 19                    |
| <b>SUN KIT 50</b>      | 510 | 1,5"                          | 0,20                                       | 8,5                                   | 0,50                 | 100                  | 26                    |
| <b>SUN KIT 75</b>      | 510 | 1,5"                          | 0,20                                       | 10,2                                  | 0,75                 | 100                  | 26                    |
| <b>SUN KIT 100</b>     | 620 | 1,5"                          | 0,30                                       | 15,1                                  | 0,95                 | 150                  | 29                    |



# FILTRO PISCINA PÚBLICA



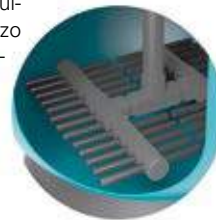
Filtro laminado para piscina pública fabricado en fibra de vidrio reforzado. Resistente a los rayos UV viene equipado con válvula de seguridad de sobre presión. Brazo colector y lecho filtrante de 1 metro. Presión de trabajo 2,5 bar. Bajo demanda se puede suministrar con:

- **Lecho filtrante de 1,2 metros**
- Placa de crepinas
- Visor
- Boca de hombre
- Presión 4 bar



Commercial laminated filter for public pool made with reinforced fiberglass. UV resistant includes a security valve for over pressure. Arm collector and filtration bed depth of 1 meter. Pressure 2,5 bar. Under demand can be supplied with:

- **Filtration bed depth of 1,2 meters**
- Nozzle plate
- Side glass
- Man hole
- Pressure 4 bar



STANDARD



OPCIONAL



| Modelo<br>Model | Ø    | Conexión<br>Connection | Sup. Filtrante<br>Filtering Surface | Velocidad<br>Speed               | Caudal<br>Flow    | Grava / Gravel<br>(1-2 mm) | Arena / Sand<br>(0,4-0,8 mm) |
|-----------------|------|------------------------|-------------------------------------|----------------------------------|-------------------|----------------------------|------------------------------|
|                 | mm   | mm                     | m <sup>2</sup>                      | m <sup>3</sup> /h/m <sup>2</sup> | m <sup>3</sup> /h | kg                         | (kg)                         |
| SUN 1050        | 1050 | 63                     | 0,87                                | 20                               | 17                | 200                        | 1100                         |
|                 | 1050 | 75                     | 0,87                                | 30-40                            | 26-34             | 200                        | 1100                         |
|                 | 1050 | 90                     | 0,87                                | 50                               | 43                | 200                        | 1100                         |
| SUN 1200        | 1200 | 75                     | 1,13                                | 20-30                            | 23-34             | 250                        | 1450                         |
|                 | 1200 | 90                     | 1,13                                | 40-50                            | 45-56             | 250                        | 1450                         |
| SUN 1400        | 1400 | 75                     | 1,54                                | 20                               | 31                | 375                        | 2050                         |
|                 | 1400 | 90                     | 1,54                                | 30                               | 46                | 375                        | 2050                         |
|                 | 1400 | 110                    | 1,54                                | 40-50                            | 62-77             | 375                        | 2050                         |
| SUN 1600        | 1600 | 90                     | 2,01                                | 20                               | 40                | 500                        | 2350                         |
|                 | 1600 | 110                    | 2,01                                | 30-40                            | 60-80             | 500                        | 2350                         |
|                 | 1600 | 125                    | 2,01                                | 50                               | 100               | 500                        | 2350                         |
| SUN 1800        | 1800 | 90                     | 2,54                                | 20                               | 51                | 750                        | 3350                         |
|                 | 1800 | 110                    | 2,54                                | 30                               | 76                | 750                        | 3350                         |
|                 | 1800 | 125                    | 2,54                                | 40                               | 102               | 750                        | 3350                         |
|                 | 1800 | 140                    | 2,54                                | 50                               | 125               | 750                        | 3350                         |
| SUN 2000        | 2000 | 110                    | 3,14                                | 20                               | 63                | 1000                       | 4300                         |
|                 | 2000 | 125                    | 3,14                                | 30                               | 94                | 1000                       | 4300                         |
|                 | 2000 | 140                    | 3,14                                | 40                               | 126               | 1000                       | 4300                         |
|                 | 2000 | 160                    | 3,14                                | 50                               | 157               | 1000                       | 4300                         |

# ALDARA MINI



## Descripción producto:

Cascada fabricada en acero inoxidable calidad AISI-316L (EN 1.4404).

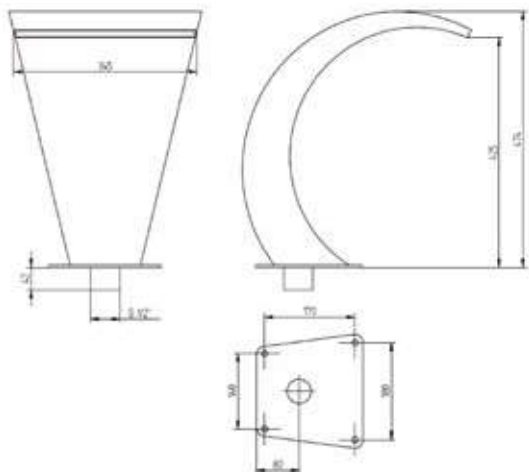
- Fácil instalación, no precisa de anclaje adicional.
- Incorpora conexión hembra de 1 ½”.
- El caudal aconsejado para un uso óptimo es de 18 m<sup>3</sup>/h
- Tornillería de instalación incluida.
- **Bomba recomendada Winner 100.**
- **Versión PREMIUM** con acabado electropolido bajo demanda.



## Product descriptions:

Water fall made in stainless Steel AISI-316L (EN 1.4404) quality.

- Easy installation, anchorage not needed.
- 1 ½ ” female threaded connexion included.
- 18 m<sup>3</sup>/h recommended Flow rate for optimum performance.
- Installation screws included.
- **Recommended pump Winner 100.**
- **PREMIUM version** with electropolished finish on demand.



# ALDARA



## Descripción producto:

Cascada fabricada en acero inoxidable calidad AISI-316L (EN 1.4404).

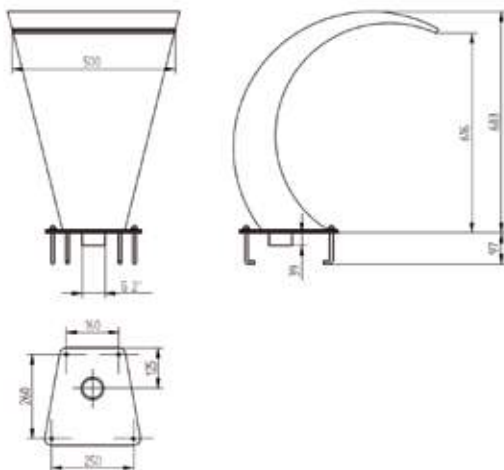
- Anclaje incluido para su funcionamiento.
- Conexión hembra de 2"
- Caudal recomendado para uso óptimo es de 21 m<sup>3</sup>/h.
- **Bomba recomendada Winner 150.**
- **Versión PREMIUM** con acabado electropulido bajo demanda.



## Product descriptions:

Water fall made in stainless Steel AISI-316L (EN 1.4404) quality.

- Anchor included for operation.
- 2" female threaded connection.
- Suggested Flow rate for an optimum performance of 21 m<sup>3</sup>/h.
- **Recommended pump Winner 150.**
- **PREMIUM version** with electropolished finish on demand.



# RIMINI



## Descripción producto:

Cascada fabricada en acero inoxidable calidad AISI-316L (EN 1.4404).

- No se requiere anclaje para su correcto funcionamiento.
- Caudal recomendado para uso óptimo es de 21 m<sup>3</sup>/h.
- Conexión rosca macho de 2".
- **Bomba recomendada Winner 150.**
- **Versión PREMIUM** con acabado electropulido bajo demanda.



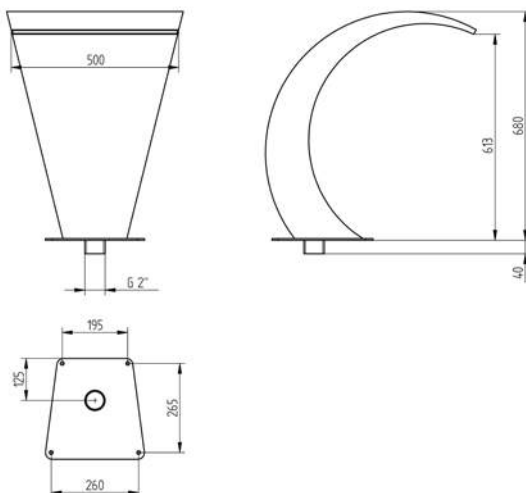
## Product descriptions:

Water fall made in stainless Steel AISI-316L (EN 1.4404) quality.

- Anchoring is not required for proper operation.
- Suggested Flow rate for an optimum performance of 21 m<sup>3</sup>/h.
- Male thread connection of 2".
- **Recommended pump Winner 150.**
- **PREMIUM version** with electropolished finish on demand.



conexión macho 2"  
2" male thread



# RIVA



## Descripción producto:

El nuevo cañón de agua modelo RIVA es el nuevo miembro de la familia Saci Wellness diseñado y fabricado bajo los más altos estándares de calidad a la vez que facilita una instalación sencilla y fiable.

## Características principales:

- Fabricado en acero inoxidable calidad AISI-316L.
- Fácil instalación, no necesita anclaje.
- Incorpora rosca de 1 ½" para conexión directa a tubería.
- No necesita bomba adicional, debido a su caudal (7m<sup>3</sup>/h) puede conectarse al sistema de retorno de la piscina.
- Dos versiones disponibles según el efecto buscado; boca plana y boca circular.
- Incluye embellecedor.

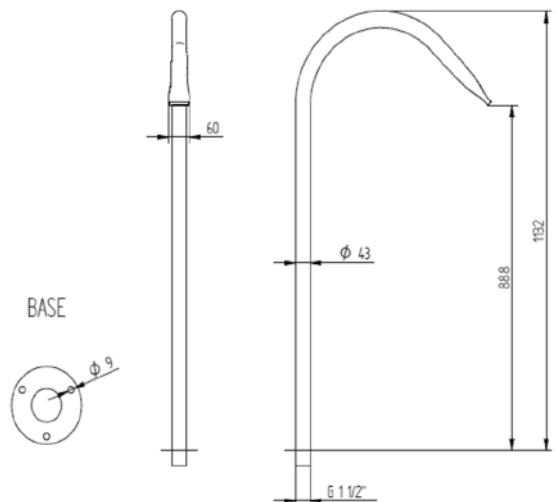


## Product descriptions:

The new water feature Riva is the new member of the Saci Wellness family designed and manufactured under the highest quality standards while facilitating simple and reliable installation.

## Main features:

- Made in stainless steel 316L quality.
- Easy installation, anchorage no needed.
- 1 ½" connection for a "pug & play" with pipe.
- Extra pump no needed; can be connected to de swimming pool water return due to the flow (7 m<sup>3</sup>/h).
- 2 options according the effect; with flat or circular nozzle.
- Escutcheon included.



# DOLCE



## Descripción producto:

Cañón de agua fabricado en acero inoxidable calidad AISI-316L (EN 1.4404). Anclaje incluido con conexión de 2".

- 350mm de boca y 18 m<sup>3</sup>/h.
- **Bomba recomendada Winner 100.**
- **Versión PREMIUM** con acabado electropulido bajo demanda

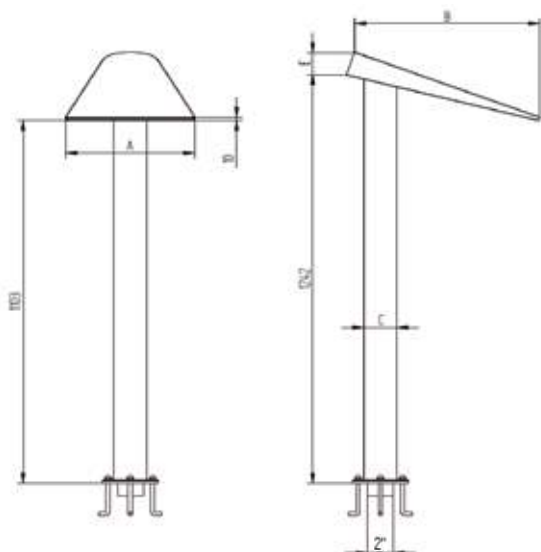


## Product descriptions:

Water cannon made in stainless Steel AISI-316L (EN 1.4404) quality.

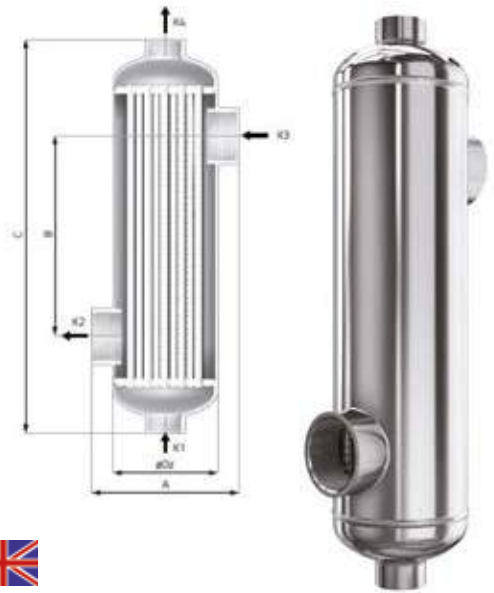
Anchorage included with a 2" connexion.

- 350mm of mouth and 18 m<sup>3</sup>/h flow.
- **Recommended pump Winner 100.**
- **PREMIUM version** with electropolished finish on demand



# HEAT-SS

|              | K1, K4            | K2, K3              |
|--------------|-------------------|---------------------|
| <b>B45</b>   | G <sup>3/4"</sup> | G <sup>1"</sup>     |
| <b>B70</b>   | G <sup>3/4"</sup> | G <sup>1 1/2"</sup> |
| <b>B130</b>  | G <sup>3/4"</sup> | G <sup>1 1/2"</sup> |
| <b>B180</b>  | G <sup>1"</sup>   | G <sup>1 1/2"</sup> |
| <b>B250</b>  | G <sup>1"</sup>   | G <sup>1 1/2"</sup> |
| <b>B300</b>  | G <sup>1"</sup>   | G <sup>1 1/2"</sup> |
| <b>B500</b>  | G <sup>1"</sup>   | G <sup>2"</sup>     |
| <b>B1000</b> | G <sup>2"</sup>   | G <sup>2"</sup>     |



## Descripción producto:

Intercambiadores de calor HEAT-SS fabricados en acero inoxidable calidad AISI-316L (EN 1.4404) que ofrecen una solución ideal para instalaciones con un gran caudal volumétrico como piscinas e hidromasajes y disponen de las siguientes características constructivas:

- Tubos interiores coarrugados de 8mm de diámetro que aumentan la superficie de intercambio de calor y reducen la deposición de impurezas.
- Totalmente soldados, sin riesgo de fugas.
- Baja pérdida de presión, no hay necesidad de instalar bypass (desviaciones).
- Resistentes a sustancias agresivas como flúor o cloro.
- Parámetros máximos de funcionamiento: 16 bar y 203°C.



## Product descriptions:

Heat exchangers HEAT-SS made in stainless steel quality AISI-316L (EN 1.4404) that offer an ideal solution for installations with a large volumetric flow like swimming pools and hydromassages and have the following constructive characteristics:

- Coiled inner tubes 8mm in diameter that increase the heat exchange surface and reduce the deposition of impurities.
- Totally welded, with no risk of leakage.
- Low pressure loss, no need to install bypass.
- Resistant to aggressive substances such as fluorine or chlorine.
- Maximum operating parameters: 16 bar and 203°C.

| Tipo<br>Type | Superficie de intercambio de calor<br>Heat exchange area | Capacidad lado tubo<br>Tube side capacity | Capacidad lado carcasa<br>Shell side capacity | Peso<br>Weight | Dimensiones<br>Dimensions |       |        |       |
|--------------|--|---|---|----------------|---------------------------|-------|--------|-------|
|              |  |   |   |                | A                         | B     | C      | ØDz   |
|              | m <sup>2</sup>   | l   | l   | kg             | mm                        | mm    | mm     | mm    |
| <b>B45</b>   | 0,11   | 0,52                                      | 0,48  | 2,10           | 122,0                     | 75,0  | 289,5  | 80,0  |
| <b>B70</b>   | 0,18   | 0,64                                      | 0,84  | 3,00           | 122,0                     | 175,0 | 389,5  | 80,0  |
| <b>B130</b>  | 0,23   | 0,70                                      | 0,98  | 3,30           | 122,0                     | 225,0 | 439,5  | 80,0  |
| <b>B180</b>  | 0,38   | 1,21                                      | 1,38  | 4,60           | 143,6                     | 193,0 | 379,0  | 101,6 |
| <b>B250</b>  | 0,55   | 1,48                                      | 1,99  | 5,80           | 143,6                     | 323,0 | 509,0  | 101,6 |
| <b>B300</b>  | 0,73   | 1,76                                      | 2,58  | 7,30           | 143,6                     | 451,0 | 637,0  | 101,6 |
| <b>B500</b>  | 1,37   | 2,76                                      | 4,81  | 12,40          | 143,6                     | 884,0 | 1103,0 | 101,6 |
| <b>B1000</b> | 1,97   | 4,55                                      | 7,78  | 23,50          | 190,0                     | 598,0 | 943,0  | 139,7 |

# HEAT-Ti



K1/K4:  
inlet / outlet  
heat source external  
thread G1<sup>1/2</sup>"

K3/K2:  
inlet / outlet  
pool water internal  
thread G1<sup>1/2</sup>"



## Descripción producto:

Los intercambiadores de calor HEAT-Ti fabricados en titanio son la mejor elección para trabajar en las condiciones más exigentes, especialmente en piscinas con agua salada.

- Tubos interiores coarrugados de 8mm de diámetro que aumentan la superficie de intercambio de calor y reducen la depositación de impurezas.
- Totalmente soldados, sin riesgo de fugas.
- Baja pérdida de presión, no hay necesidad de instalar bypass (desviaciones).
- Resistentes a sustancias agresivas como flúor o cloro o agua salada.
- Parámetros máximos de funcionamiento: 16 bar y 150°C.



## Product descriptions:

The HEAT-Ti heat exchangers made in titanium are the best option to work in the most extremely conditions, mainly with salt water.

- Coarrugated pipes inside of 8mm of diameter whhc increases the Exchange zone and reduces the fouling.
- Totally welded, without any leakage possibility.
- Low pression loss.
- Ressitant against very aggressive products as salt water, fluor or chlorines.
- Max. Working parameters: 16 bar and 150°C.

| Tipo<br>Type  | Superficie de intercambio de calor<br>Heat exchange area |                 | Capacidad lado tubo<br>Tube side capacity |     | Capacidad lado carcasa<br>Shell side capacity |     | Peso<br>Weight |      | Dimensiones<br>Dimensions |     |     |      |      |      |       |     |
|---------------|--|-----------------|---|-----|---|-----|----------------|------|---------------------------|-----|-----|------|------|------|-------|-----|
|               | m <sup>2</sup>   | ft <sup>2</sup> | l   | gal | l   | gal | kg             | lb   | A                         |     | B   |      | C    |      | ØDz   |     |
|               | mm   | in              | mm  | in  | mm  | in  | mm             | in   | mm                        | in  | mm  | in   | mm   | in   | mm    | in  |
| <b>TI250</b>  | 0,34   | 3,7             | 0,94                                      | 0,2 | 1,19  | 0,3 | 2,2            | 4,9  | 140                       | 5,5 | 170 | 6,7  | 357  | 14,1 | 101,6 | 4,0 |
| <b>TI350</b>  | 0,48   | 5,2             | 1,17                                      | 0,3 | 1,63  | 0,4 | 2,7            | 6,0  | 140                       | 5,5 | 270 | 10,6 | 457  | 18,0 | 101,6 | 4,0 |
| <b>TI500</b>  | 0,69   | 7,4             | 1,51                                      | 0,4 | 2,34  | 0,6 | 3,8            | 8,3  | 140                       | 5,5 | 420 | 16,5 | 607  | 23,9 | 101,6 | 4,0 |
| <b>TI750</b>  | 1,04   | 11,2            | 2,08                                      | 0,5 | 3,49  | 0,9 | 5,3            | 11,7 | 140                       | 5,5 | 670 | 26,4 | 857  | 33,7 | 101,6 | 4,0 |
| <b>TI1000</b> | 1,38   | 14,9            | 2,64                                      | 0,7 | 4,66  | 1,2 | 6,8            | 15,0 | 140                       | 5,5 | 920 | 36,2 | 1107 | 43,6 | 101,6 | 4,0 |



# VERTICALES Y CENTRIFUGAS

## VERTICALES MULTICELULARES

**64**      **V-NOX**

**65**      **[e] NOX**

**66**      **XV-F**

**70**      **XVN-F**

**72**      **VAT**

## CENTRIFUGAS HORIZONTALES

**74**      **K**

**76**      **CB**

**77**      **KI**

**78**      **HK**

**79**      **CR  
CRB**

## NORMALIZADAS

**80**      **AG**

**82**      **MN**

**85**      **NKM-G  
NKP-G**

**90**      **KDN**

# V-NOX



## Aplicaciones:

Las bombas verticales multicelulares de la serie V-NOX, por su elevado rendimiento y funcionamiento EXTREMADAMENTE SILENCIOSO, son especialmente indicadas para su uso en equipos de presurización y equipos contra incendios.

## Características constructivas:

Turbinas, eje bomba, cuerpo bomba en acero inoxidable ISO 431, difusores en tecnopolímero inyectado con fibra de vidrio, contrabridas de aspiración e impulsión, base aspiración y cuerpo de impulsión en fundición GG-20 con tratamiento de pintura epoxi-poliéster interior y exterior para ofrecer mas resistencia a la oxidación. Cierre mecánico en cerámica grafito y AISI 304.

## Motor:

Motor asíncrono, cerrado de ventilación externa, apto para trabajo continuo. Grado de protección IP-55, aislamiento clase F (calentamiento "B") aptos para trabajo a través de variadores de frecuencia.

**Temperatura máxima del agua:** 45° C.

**Temperatura máxima ambiente:** 45° C.



## Applications:

The multistage vertical pumps of the V-NOX series, through their high output and EXTREMELY SILENT operation, are particularly recommended for use in pressure and fire-fighting equipment both for civil and industrial use.

## Constructive characteristics:

Impeller, pump shaft, pump housing in ISO 431 stainless steel, diffusers in technopolymer injected with glass fiber, suction and drive counter-flanges, suction base and drive housing in GG-20 cast iron with exterior and interior epoxi-poliéster treatment to prevent rust. Mechanical seal in graphite ceramic and AISI 304.

## Motor:

Standard asynchronous motor, sealed from external ventilation, suitable for continuous work. IP-55 protection, class F isolation (heating "B") suitable for work through frequency inverters.

**Maximum water temperature:** 45° C.

**Maximum ambient temperature:** 45° C.

| Tipo<br>Type         | Potencia |     | "A"       |            |            | Con.<br>µF | Caudal m <sup>3</sup> /h / Flow m <sup>3</sup> /h |     |     |     |    |    |    |    |    | Diámetro |        |
|----------------------|----------|-----|-----------|------------|------------|------------|---|-----|-----|-----|----|----|----|----|----|----------|--------|
|                      | HP       | KW  | II<br>230 | III<br>230 | III<br>400 |            | 1,5   | 3   | 4,5 | 6   | 7  | 8  | 9  | 10 | 11 | ASP.     | IMP.   |
|                      |          |     |           |            |            |            | Altura m.c.a. / Height w.c.m.                     |     |     |     |    |    |    |    |    |          |        |
| <b>V-NOX 303 M/T</b> | 1,2      | 0,9 | 7,4       | 6,3        | 3,8        | 40         | 39  | 37  | 35  | 32  | 29 | 25 | 20 | 14 | 8  | 1 1/2"   | 1 1/4" |
| <b>V-NOX 304 M/T</b> | 1,5      | 1,1 | 8,7       | 7,1        | 4,1        | 40         | 51  | 49  | 46  | 41  | 37 | 32 | 26 | 19 | 11 | 1 1/2"   | 1 1/4" |
| <b>V-NOX 305 M/T</b> | 2        | 1,5 | 10,3      | 7,9        | 4,5        | 40         | 65  | 62  | 58  | 52  | 47 | 40 | 32 | 23 | 14 | 1 1/2"   | 1 1/4" |
| <b>V-NOX 306 T</b>   | 3        | 2,2 | -         | 8,2        | 4,8        | -          | 77  | 75  | 70  | 63  | 56 | 48 | 39 | 28 | 16 | 1 1/2"   | 1 1/4" |
| <b>V-NOX 307 T</b>   | 3        | 2,2 | -         | 9,4        | 5,4        | -          | 90  | 86  | 79  | 70  | 63 | 54 | 44 | 32 | 18 | 1 1/2"   | 1 1/4" |
| <b>V-NOX 308 T</b>   | 4        | 3   | -         | 13,3       | 7,7        | -          | 103   | 100 | 95  | 84  | 75 | 64 | 52 | 38 | 21 | 1 1/2"   | 1 1/4" |
| <b>V-NOX 309 T</b>   | 4        | 3   | -         | 14,3       | 8,3        | -          | 117   | 112 | 104 | 92  | 83 | 71 | 56 | 41 | 23 | 1 1/2"   | 1 1/4" |
| <b>V-NOX 310 T</b>   | 5,5      | 4   | -         | 15,9       | 9,1        | -          | 129   | 124 | 116 | 104 | 92 | 79 | 64 | 47 | 26 | 1 1/2"   | 1 1/4" |

| Tipo<br>Type         | Potencia |     | "A"       |            |            | Con.<br>µF | Caudal m <sup>3</sup> /h / Flow m <sup>3</sup> /h |      |     |      |    |      |    |      |    | Diámetro |        |
|----------------------|----------|-----|-----------|------------|------------|------------|---|------|-----|------|----|------|----|------|----|----------|--------|
|                      | HP       | KW  | II<br>230 | III<br>230 | III<br>400 |            | 1,5   | 3    | 4,5 | 6    | 9  | 12   | 15 | 18   | 21 | ASP.     | IMP.   |
|                      |          |     |           |            |            |            | Altura m.c.a. / Height w.c.m.                     |      |     |      |    |      |    |      |    |          |        |
| <b>V-NOX 403 M/T</b> | 2        | 1,5 | 10,3      | 7,9        | 4,5        | 40         | 35  | 34,5 | 34  | 33   | 31 | 27   | 23 | 18   | 13 | 1 1/2"   | 1 1/4" |
| <b>V-NOX 404 T</b>   | 3        | 2,2 | -         | 8,2        | 4,8        | -          | 44  | 43   | 42  | 41   | 37 | 32,5 | 27 | 21   | 14 | 1 1/2"   | 1 1/4" |
| <b>V-NOX 405 T</b>   | 4        | 3   | -         | 11,9       | 6,9        | -          | 55  | 54   | 53  | 51,5 | 48 | 43   | 37 | 29,5 | 21 | 1 1/2"   | 1 1/4" |
| <b>V-NOX 406 T</b>   | 4        | 3   | -         | 13,3       | 7,7        | -          | 66  | 64,5 | 63  | 61   | 56 | 51   | 43 | 34   | 23 | 1 1/2"   | 1 1/4" |
| <b>V-NOX 407 T</b>   | 5,5      | 4   | -         | 15,6       | 9          | -          | 77  | 76   | 75  | 73   | 67 | 60   | 51 | 41   | 28 | 1 1/2"   | 1 1/4" |

# [e]NOX

con motor de imanes permanentes  
with permanent magnet motor



Alta eficiencia  
Ahorro energético  
High efficiency  
Energy saving



### Características:

La nueva serie de bombas [e]NOX incorpora a las fantásticas capacidades hidráulicas de la serie V-NOX un nuevo **motor síncrono de imanes permanentes**, que junto al **variador de frecuencia** específicamente diseñado para este conjunto, nos proporciona una altísima eficiencia IE4 unido a un excepcional consumo eléctrico.

Las ventajas de trabajar con el binomio motor síncrono-variador de velocidad nos brinda un rendimiento hidráulico superior a la variante con motor asíncrono, una notable reducción de consumo eléctrico, un excelente rendimiento adaptándose la bomba a las necesidades de caudal instantáneo requerido por la instalación, una reducción importante de ruido y unos costes de mantenimiento prácticamente nulos, al funcionar la bomba en regímenes de velocidad variables.

**Transductor de presión no incluido.**



### Characteristics:

The new series of pumps [e]NOX incorporates to the fantastic hydraulic capabilities of the V-NOX series, a new **permanent magnet synchronous motor**, which together with the **frequency driver** specifically designed for this set, provides us with a high efficiency IE4 united to an exceptional electrical consumption.

The advantages of working with the binomial synchronous motor- speed drive gives us a hydraulic performance superior to the variant with asynchronous motor, a remarkable reduction of electrical consumption, an excellent performance adapting the pump to the needs of instantaneous flow required by the installation, a significant reduction in noise and maintenance costs practically zero, because the pump operates at variable speeds.

**Pressure transducer not included.**



Eficiencia IE4  
Reduce CO<sub>2</sub>  
Efficiency IE4  
Reduces CO<sub>2</sub>

| Tipo<br>Type                                      | P1 (kW)<br>max | P2  |     | Caudal m <sup>3</sup> /h / Flow m <sup>3</sup> /h |     |     |     |    |    |    |    |    | ASP   | IMP   |
|---|----------------|-----|-----|---|-----|-----|-----|----|----|----|----|----|-------|-------|
|   |                | kW  | HP  | 1,5   | 3   | 4,5 | 6   | 7  | 8  | 9  | 10 | 11 |       |       |
| <b>Altura m.c.a. / Height w.c.m. (@ 2900 rpm)</b> |                |     |     |   |     |     |     |    |    |    |    |    |       |       |
| [e]nox 306 M                                      | 2,47           | 2,2 | 3   | 77  | 75  | 70  | 64  | 58 | 50 | 41 | 31 | 19 | 11/2" | 11/4" |
| [e]nox 310 T                                      | 4,44           | 4   | 5,5 | 129   | 124 | 117 | 106 | 96 | 83 | 68 | 51 | 29 | 11/2" | 11/4" |

| Tipo<br>Type                                      | P1 (kW)<br>max | P2 |     | Caudal m <sup>3</sup> /h / Flow m <sup>3</sup> /h |      |     |    |    |    |    |    |    | ASP   | IMP   |
|---|----------------|----|-----|---|------|-----|----|----|----|----|----|----|-------|-------|
|   |                | kW | HP  | 1,5   | 3    | 4,5 | 6  | 9  | 12 | 15 | 18 | 21 |       |       |
| <b>Altura m.c.a. / Height w.c.m. (@ 2900 rpm)</b> |                |    |     |   |      |     |    |    |    |    |    |    |       |       |
| [e]nox 407 T                                      | 4,44           | 4  | 5,5 | 77,5  | 76,5 | 75  | 73 | 68 | 62 | 54 | 44 | 32 | 11/2" | 11/4" |

# XV-F

AISI 304



## Aplicaciones:

Las electrobombas de la serie XV-F son bombas centrífugas verticales multicelulares, no autocebantes, con bocas de aspiración e impulsión en línea, que por su elevado rendimiento las hace ideales para su uso en equipos de presión, en instalaciones industriales y en todas aquellas aplicaciones en que se requiera altas presiones con caudales moderados.

## Características Constructivas:

**Turbinas, difusores, eje, camisa externa y cámaras intermedias, íntegramente en acero inoxidable AISI 304.** Base aspiración-impulsión y cuerpo superior en fundición de hierro de alta resistencia. Sello mecánico en carburo de silicio/EPDM. Juntas tóricas en goma EPDM o teflón. **Incorporan un novedoso sello mecánico de tipo cartucho, que permite una fácil y rápida sustitución, sin desmontar ninguna pieza de la parte hidráulica de la bomba.**

Todas las versiones equipan bridas DIN y no incorporan contrabridas de serie:

|                     |        |
|---------------------|--------|
| XV-F 5              | DN 32  |
| XV-F 10             | DN 40  |
| XV-F 15 y XV-F 20   | DN 50  |
| XV-F 32             | DN 65  |
| XV-F 45             | DN 80  |
| XV-F 64 y XV-F 90   | DN 100 |
| XV-F 120 y XV-F 150 | DN 125 |

## Motor:

IE3 motor asíncrono, tipo cerrado y de ventilación externa, apto para trabajo continuo. Grado de protección IP-54, aislamiento clase F, a 2.850 r.p.m. Los modelos monofásicos a 230 V incorporan un protector térmico y condensador permanente.

**Temperatura del líquido a bombear -15° C a +120° C**  
**Temperatura máxima ambiente 50° C**



## Applications:

The electropumps of the XV-F series are multicellular vertical centrifugal pumps, non self-priming, with suction and drive in line, and their high output makes them ideal for use in pressure equipment, industrial installations and all applications requiring high pressures with moderate flows.

## Constructive characteristics:

**Impellers, diffusers, shaft, external cladding and intermediate chambers entirely in AISI 304 stainless steel.** Suction drive base and upper body in high strength cast iron. Silicon carbide/EPDM mechanical seal. EPDM rubber or Teflon o-rings. **Includes a new mechanical seal type cartridge, for quick and easy substitution without dismantling any piece of the hydraulic part of the pump.**

All versions are fitted with DIN flanges and do not include counter flanges as standard.

|                     |        |
|---------------------|--------|
| XV-F 5              | DN 32  |
| XV-F 10             | DN 40  |
| XV-F 15 & XV-F 20   | DN 50  |
| XV-F 32             | DN 65  |
| XV-F 45             | DN 80  |
| XV-F 64 & XV-F 90   | DN 100 |
| XV-F 120 & XV-F 150 | DN 125 |

## Motor:

IE3 sealed asynchronous with external ventilation, suitable for continuous work. IP-55 protection, class F insulation, at 2,850 rpm. Single phase versions at 230 V includes a thermal protector and permanent capacitor.

**Maximum water temperature -15° C to +120° C**  
**Maximum ambient temperature . . . . . 50° C**

| Tipo<br>Type | Con.<br>µF | Potencia |     | "A"       |            |            | Caudal m <sup>3</sup> /h / Flow m <sup>3</sup> /h |     |     |     |     |     |     |     |     | Diámetro |       |
|--------------|------------|----------|-----|-----------|------------|------------|---|-----|-----|-----|-----|-----|-----|-----|-----|----------|-------|
|              |            | HP       | KW  | II<br>230 | III<br>230 | III<br>400 | 0   | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8   | ASP.     | IMP.  |
|              |            |          |     |           |            |            | Altura m.c.a. / Height w.c.m.                     |     |     |     |     |     |     |     |     |          |       |
| XV-F 5-8     | 25         | 1,5      | 1,1 | 9,3       | 4,3        | 2,5        | 52  | 51  | 48  | 46  | 43  | 39  | 34  | 28  | 22  | DN 32    | DN 32 |
| XV-F 5-10    | 45         | 2        | 1,5 | 12        | 5,9        | 3,4        | 65  | 64  | 62  | 60  | 56  | 51  | 46  | 40  | 32  | DN 32    | DN 32 |
| XV-F 5-14    | -          | 3        | 2,2 | -         | 8,3        | 4,8        | 93  | 92  | 90  | 87  | 82  | 75  | 67  | 58  | 47  | DN 32    | DN 32 |
| XV-F 5-16    | -          | 3        | 2,2 | -         | 8,3        | 4,8        | 108   | 107 | 103 | 98  | 92  | 86  | 77  | 67  | 54  | DN 32    | DN 32 |
| XV-F 5-20    | -          | 4        | 3   | -         | 10,9       | 6,3        | 135   | 133 | 131 | 126 | 118 | 110 | 98  | 85  | 68  | DN 32    | DN 32 |
| XV-F 5-29    | -          | 5,5      | 4   | -         | 13,8       | 8          | 197   | 196 | 192 | 185 | 176 | 164 | 148 | 128 | 107 | DN 32    | DN 32 |
| XV-F 5-36    | -          | 7,5      | 5,5 | -         | 21,5       | 12,4       | 246   | 242 | 236 | 227 | 216 | 200 | 182 | 158 | 132 | DN 32    | DN 32 |

| Tipo<br>Type | Potencia |     | "A"        |            | Caudal m <sup>3</sup> /h / Flow m <sup>3</sup> /h |     |     |     |     |     |     |     |     | Diámetro |       |
|--------------|----------|-----|------------|------------|---|-----|-----|-----|-----|-----|-----|-----|-----|----------|-------|
|              | HP       | KW  | III<br>230 | III<br>400 | 0   | 4,5 | 6   | 7   | 8   | 9   | 10  | 11  | 12  | ASP.     | IMP.  |
|              |          |     |            |            | Altura m.c.a. / Height w.c.m.                     |     |     |     |     |     |     |     |     |          |       |
| XV-F 10-6    | 3        | 2,2 | 8,8        | 5,1        | 60  | 59  | 58  | 57  | 53  | 50  | 46  | 42  | 37  | DN 40    | DN 40 |
| XV-F 10-9    | 4        | 3   | 11,8       | 6,8        | 90  | 88  | 87  | 85  | 80  | 76  | 70  | 64  | 57  | DN 40    | DN 40 |
| XV-F 10-10   | 5,5      | 4   | 16,8       | 9,7        | 101   | 100 | 98  | 96  | 91  | 86  | 79  | 72  | 64  | DN 40    | DN 40 |
| XV-F 10-12   | 5,5      | 4   | 16,8       | 9,7        | 121   | 120 | 117 | 114 | 108 | 102 | 95  | 86  | 77  | DN 40    | DN 40 |
| XV-F 10-16   | 7,5      | 5,5 | 21,5       | 12,4       | 162   | 161 | 156 | 152 | 145 | 137 | 128 | 117 | 104 | DN 40    | DN 40 |
| XV-F 10-22   | 10       | 7,5 | 28         | 16,4       | 225   | 223 | 218 | 211 | 202 | 190 | 178 | 162 | 145 | DN 40    | DN 40 |

| Tipo<br>Type | Potencia |     | "A"        |            | Caudal m <sup>3</sup> /h / Flow m <sup>3</sup> /h |     |     |     |     |     |     |     |     | Diámetro |       |
|--------------|----------|-----|------------|------------|---|-----|-----|-----|-----|-----|-----|-----|-----|----------|-------|
|              | HP       | KW  | III<br>230 | III<br>400 | 0   | 6   | 10  | 12  | 14  | 16  | 18  | 20  | 22  | ASP.     | IMP.  |
|              |          |     |            |            | Altura m.c.a. / Height w.c.m.                     |     |     |     |     |     |     |     |     |          |       |
| XV-F 15-5    | 5,5      | 4   | 16,8       | 9,7        | 68  | 67  | 64  | 62  | 58  | 55  | 51  | 46  | 40  | DN 50    | DN 50 |
| XV-F 15-7    | 7,5      | 5,5 | 21,5       | 11,3       | 97  | 95  | 90  | 87  | 82  | 78  | 72  | 66  | 59  | DN 50    | DN 50 |
| XV-F 15-9    | 10       | 7,5 | 28         | 14,7       | 125   | 122 | 118 | 113 | 108 | 102 | 95  | 86  | 76  | DN 50    | DN 50 |
| XV-F 15-14   | 15       | 11  | 40         | 21         | 194   | 190 | 183 | 178 | 170 | 160 | 149 | 135 | 120 | DN 50    | DN 50 |
| XV-F 15-17   | 20       | 15  | 50         | 29         | 237   | 233 | 225 | 217 | 208 | 190 | 182 | 165 | 147 | DN 50    | DN 50 |

| Tipo<br>Type | Potencia |      | "A"        |            | Caudal m <sup>3</sup> /h / Flow m <sup>3</sup> /h |     |     |     |     |     |     |     | Diámetro |       |
|--------------|----------|------|------------|------------|---|-----|-----|-----|-----|-----|-----|-----|----------|-------|
|              | HP       | KW   | III<br>400 | III<br>690 | 0   | 4   | 8   | 12  | 16  | 20  | 24  | 28  | ASP.     | IMP.  |
|              |          |      |            |            | Altura m.c.a. / Height w.c.m.                     |     |     |     |     |     |     |     |          |       |
| XV-F 20-5    | 7,5      | 5,5  | 11,3       | 6,6        | 70  | 70  | 69  | 67  | 63  | 58  | 50  | 37  | DN 50    | DN 50 |
| XV-F 20-7    | 10       | 7,5  | 14,7       | 8,5        | 102   | 100 | 97  | 95  | 90  | 82  | 69  | 54  | DN 50    | DN 50 |
| XV-F 20-10   | 15       | 11   | 21         | 12,2       | 145   | 144 | 142 | 139 | 130 | 118 | 103 | 80  | DN 50    | DN 50 |
| XV-F 20-14   | 20       | 15   | 29         | 16,8       | 204   | 203 | 200 | 195 | 185 | 168 | 145 | 113 | DN 50    | DN 50 |
| XV-F 20-17   | 25       | 18,5 | 35         | 20,2       | 250   | 247 | 245 | 238 | 226 | 207 | 179 | 140 | DN 50    | DN 50 |

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| Tipo<br>Type | Potencia |      | "A"        |            | Caudal m <sup>3</sup> /h / Flow m <sup>3</sup> /h |     |     |     |     |     |     |     | Diámetro |       |
|--------------|----------|------|------------|------------|---|-----|-----|-----|-----|-----|-----|-----|----------|-------|
|              | HP       | KW   | III<br>400 | III<br>690 | 0   | 6   | 12  | 18  | 24  | 30  | 36  | 40  | ASP.     | IMP.  |
|              |          |      |            |            | Altura m.c.a. / Height w.c.m.                     |     |     |     |     |     |     |     |          |       |
| XV-F 32-3    | 7,5      | 5,5  | 11,3       | 6,6        | 58  | 58  | 57  | 54  | 48  | 42  | 35  | 29  | DN 65    | DN 65 |
| XV-F 32-4    | 10       | 7,5  | 14,7       | 8,5        | 76  | 76  | 75  | 72  | 65  | 58  | 48  | 39  | DN 65    | DN 65 |
| XV-F 32-6    | 15       | 11   | 21         | 12,2       | 116   | 116 | 114 | 109 | 101 | 90  | 74  | 61  | DN 65    | DN 65 |
| XV-F 32-8    | 20       | 15   | 29         | 16,8       | 154   | 156 | 152 | 146 | 136 | 120 | 100 | 82  | DN 65    | DN 65 |
| XV-F 32-10   | 25       | 18,5 | 35         | 20,2       | 194   | 197 | 192 | 183 | 170 | 152 | 126 | 106 | DN 65    | DN 65 |
| XV-F 32-12   | 30       | 22   | 42         | 24,3       | 232   | 237 | 232 | 222 | 205 | 185 | 152 | 127 | DN 65    | DN 65 |
| XV-F 32-14   | 40       | 30   | 54         | 32         | 273   | 278 | 275 | 270 | 244 | 217 | 180 | 153 | DN 65    | DN 65 |

| Tipo<br>Type | Potencia |      | "A"        |            | Caudal m <sup>3</sup> /h / Flow m <sup>3</sup> /h |     |     |     |     |     |     |     | Diámetro |       |
|--------------|----------|------|------------|------------|---|-----|-----|-----|-----|-----|-----|-----|----------|-------|
|              | HP       | KW   | III<br>400 | III<br>690 | 0   | 10  | 18  | 26  | 34  | 42  | 50  | 58  | ASP.     | IMP.  |
|              |          |      |            |            | Altura m.c.a. / Height w.c.m.                     |     |     |     |     |     |     |     |          |       |
| XV-F 45-2    | 10       | 7,5  | 14,7       | 8,5        | 50  | 50  | 49  | 47  | 45  | 40  | 34  | 29  | DN 80    | DN 80 |
| XV-F 45-3    | 15       | 11   | 21         | 12,2       | 75  | 74  | 73  | 72  | 69  | 63  | 53  | 44  | DN 80    | DN 80 |
| XV-F 45-4    | 20       | 15   | 29         | 16,8       | 100   | 101 | 100 | 97  | 92  | 84  | 71  | 57  | DN 80    | DN 80 |
| XV-F 45-5    | 25       | 18,5 | 35         | 20,2       | 125   | 127 | 124 | 122 | 117 | 105 | 90  | 75  | DN 80    | DN 80 |
| XV-F 45-6    | 30       | 22   | 42         | 24,3       | 151   | 152 | 151 | 149 | 139 | 128 | 110 | 90  | DN 80    | DN 80 |
| XV-F 45-9-2  | 40       | 30   | 54         | 32         | 218   | 222 | 221 | 216 | 202 | 186 | 158 | 128 | DN 80    | DN 80 |
| XV-F 45-10   | 50       | 37   | 69         | 40         | 252   | 255 | 253 | 249 | 232 | 218 | 185 | 153 | DN 80    | DN 80 |
| XV-F 45-13-2 | 60       | 45   | 83         | 48         | 320   | 330 | 328 | 322 | 300 | 280 | 237 | 196 | DN 80    | DN 80 |

| Tipo<br>Type | Potencia |      | "A"        |            | Caudal m <sup>3</sup> /h / Flow m <sup>3</sup> /h |     |     |     |     |     |     |     | Diámetro |        |
|--------------|----------|------|------------|------------|---|-----|-----|-----|-----|-----|-----|-----|----------|--------|
|              | HP       | KW   | III<br>400 | III<br>690 | 0   | 12  | 24  | 36  | 48  | 60  | 72  | 85  | ASP.     | IMP.   |
|              |          |      |            |            | Altura m.c.a. / Height w.c.m.                     |     |     |     |     |     |     |     |          |        |
| XV-F 64-2    | 15       | 11   | 21         | 12,2       | 60  | 58  | 56  | 53  | 49  | 45  | 40  | 33  | DN 100   | DN 100 |
| XV-F 64-3-1  | 20       | 15   | 29         | 16,8       | 78  | 77  | 76  | 74  | 68  | 62  | 54  | 42  | DN 100   | DN 100 |
| XV-F 64-4-2  | 25       | 18,5 | 35         | 20,2       | 98  | 98  | 97  | 94  | 86  | 78  | 68  | 52  | DN 100   | DN 100 |
| XV-F 64-4    | 30       | 22   | 42         | 24,3       | 118   | 117 | 113 | 109 | 102 | 94  | 84  | 68  | DN 100   | DN 100 |
| XV-F 64-6-2  | 40       | 30   | 54         | 32         | 156   | 155 | 154 | 149 | 140 | 128 | 114 | 89  | DN 100   | DN 100 |
| XV-F 64-7-1  | 50       | 37   | 69         | 40         | 195   | 194 | 191 | 185 | 173 | 160 | 143 | 115 | DN 100   | DN 100 |
| XV-F 64-8-1  | 60       | 45   | 83         | 48         | 223   | 226 | 223 | 217 | 204 | 187 | 167 | 135 | DN 100   | DN 100 |

# XV-F AISI 304

| Tipo<br>Type | Potencia |      | "A"        |            | Caudal m <sup>3</sup> /h / Flow m <sup>3</sup> /h |     |     |     |     |     |     |     | Diámetro |        |
|--------------|----------|------|------------|------------|---|-----|-----|-----|-----|-----|-----|-----|----------|--------|
|              | HP       | KW   | III<br>400 | III<br>690 | 0   | 18  | 36  | 54  | 72  | 90  | 108 | 120 | ASP.     | IMP.   |
|              |          |      |            |            | Altura m.c.a. / Height w.c.m.                     |     |     |     |     |     |     |     |          |        |
| XV-F 90-2-2  | 15       | 11   | 21         | 12,2       | 48  | 46  | 44  | 42  | 37  | 28  | 16  | 8   | DN 100   | DN 100 |
| XV-F 90-2    | 20       | 15   | 29         | 16,8       | 68  | 64  | 59  | 54  | 48  | 42  | 32  | 24  | DN 100   | DN 100 |
| XV-F 90-3-2  | 25       | 18,5 | 35         | 20,2       | 80  | 78  | 76  | 70  | 61  | 50  | 34  | 24  | DN 100   | DN 100 |
| XV-F 90-3    | 30       | 22   | 42         | 24,3       | 102   | 96  | 89  | 82  | 74  | 64  | 50  | 40  | DN 100   | DN 100 |
| XV-F 90-4    | 40       | 30   | 54         | 32         | 136   | 130 | 123 | 110 | 99  | 88  | 70  | 56  | DN 100   | DN 100 |
| XV-F 90-5    | 50       | 37   | 69         | 40         | 170   | 162 | 152 | 140 | 127 | 110 | 88  | 72  | DN 100   | DN 100 |
| XV-F 90-6    | 60       | 45   | 83         | 48         | 204   | 195 | 184 | 170 | 154 | 135 | 108 | 89  | DN 100   | DN 100 |

| Tipo<br>Type | Potencia |      | "A"        |            | Caudal m <sup>3</sup> /h / Flow m <sup>3</sup> /h |     |      |     |     |     |     |     | Diámetro |        |
|--------------|----------|------|------------|------------|---|-----|------|-----|-----|-----|-----|-----|----------|--------|
|              | HP       | KW   | III<br>400 | III<br>690 | 0   | 22  | 44   | 66  | 88  | 110 | 132 | 160 | ASP.     | IMP.   |
|              |          |      |            |            | Altura m.c.a. / Height w.c.m.                     |     |      |     |     |     |     |     |          |        |
| XV-F 120-1   | 15       | 11   | 21         | 12,2       | 29  | 28  | 26,5 | 25  | 23  | 20  | 16  | 10  | DN 125   | DN 125 |
| XV-F 120-2-1 | 25       | 18,5 | 35         | 20,2       | 51  | 50  | 48   | 45  | 41  | 36  | 29  | 16  | DN 125   | DN 125 |
| XV-F 120-2   | 30       | 22   | 42         | 24,3       | 59  | 58  | 56   | 53  | 49  | 44  | 37  | 26  | DN 125   | DN 125 |
| XV-F 120-3   | 40       | 30   | 54         | 32         | 88  | 86  | 84   | 80  | 74  | 67  | 57  | 40  | DN 125   | DN 125 |
| XV-F 120-4-1 | 50       | 37   | 69         | 40         | 110   | 108 | 105  | 99  | 92  | 83  | 70  | 47  | DN 125   | DN 125 |
| XV-F 120-5-1 | 60       | 45   | 83         | 48         | 140   | 139 | 136  | 128 | 119 | 107 | 92  | 63  | DN 125   | DN 125 |
| XV-F 120-6-1 | 75       | 55   | 104        | 60         | 170   | 168 | 163  | 155 | 143 | 130 | 112 | 78  | DN 125   | DN 125 |
| XV-F 120-7   | 100      | 75   | 140        | 81         | 210   | 208 | 200  | 189 | 176 | 160 | 138 | 102 | DN 125   | DN 125 |

| Tipo<br>Type | Potencia |    | "A"        |            | Caudal m <sup>3</sup> /h / Flow m <sup>3</sup> /h |     |      |     |     |     |      |     | Diámetro |        |
|--------------|----------|----|------------|------------|---|-----|------|-----|-----|-----|------|-----|----------|--------|
|              | HP       | KW | III<br>400 | III<br>690 | 0   | 25  | 50   | 75  | 100 | 125 | 150  | 180 | ASP.     | IMP.   |
|              |          |    |            |            | Altura m.c.a. / Height w.c.m.                     |     |      |     |     |     |      |     |          |        |
| XV-F 150-1-1 | 15       | 11 | 21         | 12,2       | 22  | 21  | 19,5 | 18  | 16  | 14  | 11   | 6   | DN 125   | DN 125 |
| XV-F 150-1   | 20       | 15 | 29         | 16,8       | 32  | 31  | 29,5 | 27  | 24  | 21  | 18   | 14  | DN 125   | DN 125 |
| XV-F 150-2-1 | 30       | 22 | 42         | 24,3       | 54  | 52  | 50   | 47  | 43  | 38  | 32,5 | 25  | DN 125   | DN 125 |
| XV-F 150-3-2 | 40       | 30 | 54         | 32         | 77  | 75  | 71   | 66  | 60  | 54  | 46   | 36  | DN 125   | DN 125 |
| XV-F 150-3   | 50       | 37 | 69         | 40         | 97  | 95  | 90   | 84  | 77  | 68  | 60   | 50  | DN 125   | DN 125 |
| XV-F 150-4-1 | 60       | 45 | 83         | 48         | 120   | 118 | 113  | 105 | 96  | 86  | 76   | 63  | DN 125   | DN 125 |
| XV-F 150-5-2 | 75       | 55 | 104        | 60         | 140   | 138 | 132  | 124 | 115 | 105 | 92   | 75  | DN 125   | DN 125 |
| XV-F 150-6   | 100      | 75 | 140        | 81         | 192   | 189 | 184  | 172 | 154 | 138 | 120  | 104 | DN 125   | DN 125 |

# XVN-F

AISI-316



### Aplicaciones:

Las electrobombas de la serie XVN-F son centrifugas verticales multicelulares con bocas de aspiración e impulsión en línea, que por su elevado rendimiento y los materiales que las componen las hace ideales para su uso en instalaciones industriales especiales para su uso en aguas químicamente agresivas como pueden ser sistemas de osmosis inversa, agua salada y agua con ácidos en disolución.

### Características constructivas:

**Turbinas, difusores, eje, camisa externa y cámaras inter-medias, base aspiración-impulsión, en acero inoxidable AISI 316.** Cuerpo superior en fundición de alta resistencia no en contacto con el líquido.

### Motor:

IE3 motor asíncrono, tipo cerrado y de ventilación externa, apto para trabajo continuo. Grado de protección IP-55, aislamiento clase F, a 2.850 r.p.m.

**Temperatura del líquido a bombear . . . -15° C a +120° C**  
**Temperatura máxima ambiente . . . . . 40° C**  
**Presión máxima de trabajo: . . . . . 25 bar**



### Applications:

The electropumps of the XVN-F series are multicellular vertical centrifugal units with suction and drive in line, and their high output materials makes them ideal for use in pressure equipment, industrial installations that works with chemically aggressive waters like reverse osmosis, salt water and water with acids.

### Construction:

**Impellers, diffusers, shaft, external cladding and intermediate chambers, suction-drive base in AISI 316 stainless steel.** Upper body in high strength cast iron not in contact with the pumped liquid.

### Motor:

IE3 sealed asynchronous with external ventilation, suitable for continuous work. IP-55 protection, class F insulation, at 2,850 rpm.

**Maximum water temperature . . . . -15° C to +120° C**  
**Maximum ambient temperature . . . . . 40° C**  
**Maximum working pressure: . . . . . 25 bar**

| Tipo<br>Type                  | Potencia |      | A          |            | Caudal m <sup>3</sup> /h / Flow m <sup>3</sup> /h |      |      |     |     |      | ASP   | IMP   |
|-------------------------------|----------|------|------------|------------|---|------|------|-----|-----|------|-------|-------|
|                               | HP       | kW   | III<br>230 | III<br>400 | 0   | 0,7  | 1,2  | 1,6 | 2   | 2,4  |       |       |
| Altura m.c.a. / Height w.c.m. |          |      |            |            |   |      |      |     |     |      |       |       |
| XVN-F 1-7                     | 0,5      | 0,37 | 1,7        | 1          | 41  | 40   | 37   | 32  | 24  | 15   | DN 25 | DN 25 |
| XVN-F 1-11                    | 0,75     | 0,55 | 2,4        | 1,4        | 64  | 63   | 58,5 | 51  | 40  | 25,5 |       |       |
| XVN-F 1-15                    | 1        | 0,75 | 3,3        | 1,9        | 87,5  | 85,5 | 81   | 71  | 57  | 36   |       |       |
| XVN-F 1-22                    | 1,5      | 1,1  | 4,3        | 2,5        | 128   | 126  | 118  | 105 | 83  | 54   |       |       |
| XVN-F 1-30                    | 2        | 1,5  | 5,9        | 3,4        | 175   | 172  | 161  | 145 | 118 | 77   |       |       |
| XVN-F 1-40                    | 3        | 2,2  | 8,3        | 4,8        | 237   | 233  | 219  | 195 | 161 | 106  |       |       |



| Tipo<br>Type | Potencia |      | A          |            | Caudal m <sup>3</sup> /h / Flow m <sup>3</sup> /h |      |     |     |     |      | ASP   | IMP   |
|--------------|----------|------|------------|------------|---|------|-----|-----|-----|------|-------|-------|
|              | HP       | kW   | III<br>230 | III<br>400 | 0   | 1,6  | 2,4 | 3   | 3,6 | 4,4  |       |       |
|              |          |      |            |            | Altura m.c.a. / Height w.c.m.                     |      |     |     |     |      |       |       |
| XVN-F 3-6    | 0,75     | 0,55 | 2,4        | 1,4        | 45  | 42,5 | 39  | 35  | 30  | 19,5 | DN 25 | DN 25 |
| XVN-F 3-8    | 1        | 0,75 | 3,3        | 1,9        | 60  | 58   | 53  | 47  | 40  | 26,5 |       |       |
| XVN-F 3-12   | 1,5      | 1,1  | 4,3        | 2,5        | 90  | 86   | 79  | 71  | 59  | 40,5 |       |       |
| XVN-F 3-16   | 2        | 1,5  | 5,9        | 3,4        | 120   | 116  | 107 | 96  | 81  | 54   |       |       |
| XVN-F 3-23   | 3        | 2,2  | 8,3        | 4,8        | 173   | 166  | 153 | 138 | 115 | 78   |       |       |
| XVN-F 3-31   | 4        | 3    | 10,9       | 6,6        | 235   | 224  | 207 | 187 | 159 | 106  |       |       |

| Tipo<br>Type | Potencia |     | A          |            | Caudal m <sup>3</sup> /h / Flow m <sup>3</sup> /h |     |     |     |     |     | ASP   | IMP   |
|--------------|----------|-----|------------|------------|---|-----|-----|-----|-----|-----|-------|-------|
|              | HP       | kW  | III<br>230 | III<br>400 | 0   | 3   | 5   | 7   | 8   | 8,5 |       |       |
|              |          |     |            |            | Altura m.c.a. / Height w.c.m.                     |     |     |     |     |     |       |       |
| XVN-F 5-8    | 1,5      | 1,1 | 4,3        | 2,5        | 59  | 56  | 49  | 36  | 28  | 24  | DN 32 | DN 32 |
| XVN-F 5-11   | 2        | 1,5 | 5,9        | 3,4        | 82  | 77  | 68  | 51  | 39  | 33  |       |       |
| XVN-F 5-16   | 3        | 2,2 | 8,3        | 4,8        | 119   | 112 | 99  | 74  | 58  | 50  |       |       |
| XVN-F 5-21   | 4        | 3   | 10,9       | 6,6        | 157   | 147 | 130 | 98  | 77  | 66  |       |       |
| XVN-F 5-28   | 5,5      | 4   | 13,8       | 8          | 210   | 197 | 174 | 132 | 105 | 90  |       |       |
| XVN-F 5-33   | 7,5      | 5,5 | -          | 12,4       | 249   | 234 | 206 | 160 | 127 | 109 |       |       |

| Tipo<br>Type | Potencia |     | A          |            | Caudal m <sup>3</sup> /h / Flow m <sup>3</sup> /h |     |     |     |     |     | ASP   | IMP   |
|--------------|----------|-----|------------|------------|---|-----|-----|-----|-----|-----|-------|-------|
|              | HP       | kW  | III<br>230 | III<br>400 | 0   | 6   | 8   | 10  | 12  | 14  |       |       |
|              |          |     |            |            | Altura m.c.a. / Height w.c.m.                     |     |     |     |     |     |       |       |
| XVN-F 10-6   | 3        | 2,2 | 8,3        | 4,8        | 67  | 62  | 58  | 52  | 44  | 34  | DN 40 | DN 40 |
| XVN-F 10-8   | 4        | 3   | 10,9       | 6,6        | 90  | 84  | 79  | 71  | 60  | 46  |       |       |
| XVN-F 10-11  | 5,5      | 4   | 13,8       | 8,0        | 124   | 115 | 108 | 98  | 84  | 64  |       |       |
| XVN-F 10-15  | 7,5      | 5,5 | -          | 12,4       | 171   | 159 | 149 | 134 | 114 | 88  |       |       |
| XVN-F 10-21  | 10       | 7,5 | -          | 16,4       | 240   | 233 | 210 | 191 | 162 | 126 |       |       |
| XVN-F 10-22  | 15       | 11  | -          | 23,5       | 250   | 235 | 221 | 201 | 171 | 132 |       |       |

| Tipo<br>Type | Potencia |     | A          |            | Caudal m <sup>3</sup> /h / Flow m <sup>3</sup> /h |     |      |     |     |     | ASP   | IMP   |
|--------------|----------|-----|------------|------------|---|-----|------|-----|-----|-----|-------|-------|
|              | HP       | kW  | III<br>400 | III<br>690 | 0   | 10  | 14   | 16  | 20  | 24  |       |       |
|              |          |     |            |            | Altura m.c.a. / Height w.c.m.                     |     |      |     |     |     |       |       |
| XVN-F 15-3   | 4        | 3   | 6,6        | -          | 40  | 37  | 35,5 | 34  | 29  | 21  | DN 50 | DN 50 |
| XVN-F 15-5   | 5,5      | 4   | 8          | -          | 68  | 62  | 59   | 57  | 48  | 36  |       |       |
| XVN-F 15-7   | 7,5      | 5,5 | 12,4       | 7,2        | 96  | 88  | 83   | 79  | 68  | 51  |       |       |
| XVN-F 15-9   | 10       | 7,5 | 16,4       | 9,5        | 124   | 113 | 108  | 103 | 88  | 67  |       |       |
| XVN-F 15-14  | 15       | 11  | 23,5       | 13,6       | 194   | 177 | 168  | 160 | 136 | 106 |       |       |
| XVN-F 15-18  | 20       | 15  | 29         | 16,8       | 250   | 231 | 218  | 207 | 177 | 141 |       |       |

# VAT



VAT-127 L



VAT-163 L



VAT-205



## Aplicaciones:

Bombas centrífugas multicelulares verticales, muy adecuadas para formar equipos con variador de frecuencia. Bombas silenciosas y de un gran rendimiento hidráulico.

BAJO DEMANDA SE PUEDEN FABRICAR CON ENTRADA Y SALIDA EN EL MISMO LADO.

## Características Constructivas:

**Series VAT 127 L y 163 L:** cuerpo aspiración e impulsión en fundición GG-25. Camisa hidráulica, eje y tornillería en acero inoxidable, turbinas difusores y tapas difusor en Noryl inyectado de alta calidad con insertos en bronce para garantizar una elevada resistencia al desgaste. Cierre mecánico en cerámica carbón y de fácil acceso.

**Series VAT 205:** cuerpo aspiración e impulsión, soporte motor, acomplamiento y difusores en fundición gris, eje en acero inoxidable. Turbinas en noryl. Cierre mecánico de cerámica carbón y de fácil acceso.

## Motor:

IE3 motor asíncrono standard, cerrado de ventilación externa, apto para trabajo continuo.

**Grado de protección IP-55. Aislamiento clase F (calentamiento "B") tropicalizados a 2.850 r.p.m. 50 Hz y bajo demanda 60 Hz y otras tensiones.**

**Temperatura máxima del agua:** 50° C  
**Temperatura máxima ambiente:** 50° C



## Applications:

Vertical multicellular centrifugal pumps. Like all the verticals, they are very suitable for use in pressure installations, or as a Jockey pump in fire-fighting units.

ON DEMAND, CAN BE MANUFACTURED WITH ENTRANCE AND EXIT ON THE SAME SIDE.

## Constructive characteristics:

**VAT 127 L and VAT 163 L SERIES:** Suction and drive chambers, motor support and coupling in cast iron impellers and diffusers in GFN-2 injected Noryl, capped diffusers in brass, ambient diffuser cladding and shaft in stainless steel, easy access mechanical seal.

**VAT 205 SERIES:** Suction and drive chambers, motor support and coupling in cast iron. Impellers in bronze capped Noryl. Easy access mechanical seal.

## Motor:

IE3 sealed asynchronous with external ventilation, IEC Standard, IP-55 protection.

**Maximum water temperature:** 50° C

**Maximum ambient temperature:** 50° C

| Tipo "L"<br>Type "L" | Potencia |     | "A"        |            | Caudal m <sup>3</sup> /h / Flow m <sup>3</sup> /h |      |     |     |     |     |     |    |    |    |    | Diámetro |        |        |
|----------------------|----------|-----|------------|------------|---|------|-----|-----|-----|-----|-----|----|----|----|----|----------|--------|--------|
|                      | HP       | KW  | III<br>230 | III<br>400 | 0   | 3    | 4   | 5   | 6   | 7   | 8   | 9  | 10 | 11 | 12 | 14       | ASP.   | IMP.   |
|                      |          |     |            |            | Altura m.c.a. / Height w.c.m.                     |      |     |     |     |     |     |    |    |    |    |          |        |        |
| VAT 127 L-6          | 3        | 2,2 | 8,1        | 4,7        | 61  | 59,5 | 58  | 56  | 54  | 50  | 46  | 40 | 35 | 28 | 21 | 13       | 1 1/2" | 1 1/2" |
| VAT 127 L-7          |          |     |            |            | 71  | 70   | 68  | 66  | 63  | 59  | 54  | 47 | 40 | 33 | 25 | 14       |        |        |
| VAT 127 L-8          |          |     |            |            | 81  | 80   | 78  | 76  | 72  | 68  | 62  | 55 | 47 | 38 | 30 | 17       |        |        |
| VAT 127 L-9          | 4        | 3   | 10,8       | 6,2        | 91  | 89   | 88  | 85  | 82  | 76  | 70  | 61 | 52 | 43 | 33 | 19       | 1 1/2" | 1 1/2" |
| VAT 127 L-10         |          |     |            |            | 101   | 99   | 97  | 95  | 91  | 85  | 78  | 69 | 59 | 49 | 38 | 22       |        |        |
| VAT 127 L-11         | 5,5      | 4   | 13,5       | 7,8        | 111   | 109  | 107 | 105 | 101 | 94  | 86  | 77 | 66 | 55 | 43 | 25       | 1 1/2" | 1 1/2" |
| VAT 127 L-12         |          |     |            |            | 121   | 119  | 117 | 115 | 110 | 103 | 94  | 85 | 73 | 61 | 48 | 28       |        |        |
| VAT 127 L-13         |          |     |            |            | 131   | 129  | 127 | 125 | 120 | 112 | 102 | 93 | 80 | 67 | 53 | 30       |        |        |

| Tipo "L"<br>Type "L" | Potencia |     | "A"        |            | Caudal m <sup>3</sup> /h / Flow m <sup>3</sup> /h |      |      |     |     |     |     |     |    |    |    | Diámetro |      |      |
|----------------------|----------|-----|------------|------------|---|------|------|-----|-----|-----|-----|-----|----|----|----|----------|------|------|
|                      | HP       | KW  | III<br>230 | III<br>400 | 0   | 6    | 8    | 10  | 12  | 14  | 16  | 18  | 20 | 22 | 24 | 26       | ASP. | IMP. |
|                      |          |     |            |            | Altura m.c.a. / Height w.c.m.                     |      |      |     |     |     |     |     |    |    |    |          |      |      |
| VAT 163 L-3          | 4        | 3   | 10,8       | 6,3        | 52  | 47   | 46,5 | 45  | 44  | 40  | 38  | 34  | 30 | 25 | 21 | 17       | 2'   | 2'   |
| VAT 163 L-4          | 5,5      | 4   | 13,5       | 7,8        | 68  | 63   | 61   | 59  | 57  | 54  | 50  | 45  | 40 | 34 | 29 | 21       | 2'   | 2'   |
| VAT 163 L-5*         | 7,5      | 5,5 | -          | 11,8       | 85  | 77,5 | 76   | 74  | 72  | 70  | 66  | 60  | 54 | 45 | 38 | 28       | 2'   | 2'   |
| VAT 163 L-6*         |          |     |            |            | 102   | 93   | 91   | 90  | 86  | 81  | 76  | 70  | 64 | 54 | 46 | 35       |      |      |
| VAT 163 L-7*         | 10       | 7,5 | -          | 15,4       | 119   | 110  | 108  | 105 | 102 | 97  | 91  | 84  | 74 | 63 | 52 | 40       | 2'   | 2'   |
| VAT 163 L-8*         |          |     |            |            | 136   | 123  | 119  | 116 | 112 | 107 | 103 | 96  | 85 | 76 | 64 | 51       |      |      |
| VAT 163 L-9*         | 12,5     | 9,3 | -          | 18,5       | 154   | 141  | 138  | 134 | 127 | 123 | 118 | 110 | 95 | 88 | 76 | 63       | 2'   | 2'   |

\* Voltaje de Serie 400/690 V (bajo demanda 230/400 V)

\*Standard voltage 400/690 V (under demand 230/400 V)

| Tipo<br>Type | Potencia |      | "A"        |            | Caudal m <sup>3</sup> /h / Flow m <sup>3</sup> /h |     |     |       |     |     |     |     |     |    |    | Diámetro |        |        |
|--------------|----------|------|------------|------------|---|-----|-----|-------|-----|-----|-----|-----|-----|----|----|----------|--------|--------|
|              | HP       | KW   | III<br>400 | III<br>690 | 0   | 5   | 10  | 15    | 20  | 25  | 30  | 35  | 38  | 40 | 42 | 45       | ASP.   | IMP.   |
|              |          |      |            |            | Altura m.c.a. / Height w.c.m.                     |     |     |       |     |     |     |     |     |    |    |          |        |        |
| VAT 205 - 3* | 12,5     | 9,3  | 18,5       | -          | 79  | 78  | 77  | 75    | 73  | 69  | 64  | 59  | 54  | 48 | 42 | 35       | 2 1/2" | 2 1/2" |
| VAT 205 - 4* | 20       | 15   | 29,4       | -          | 105   | 104 | 103 | 100   | 97  | 92  | 85  | 79  | 71  | 69 | 56 | 47       | 2 1/2" | 2 1/2" |
| VAT 205 - 5* | 20       | 15   | 29,4       | -          | 132   | 130 | 128 | 124,5 | 122 | 115 | 106 | 98  | 89  | 79 | 70 | 58       | 2 1/2" | 2 1/2" |
| VAT 205 - 6* | 25       | 18,5 | 34         | -          | 158   | 156 | 154 | 149   | 146 | 138 | 127 | 116 | 106 | 95 | 84 | 70       | 2 1/2" | 2 1/2" |

\* Voltaje de Serie 400/690 V (bajo demanda 230/400 V)

\*Standard voltage 400/690 V (under demand 230/400 V)

# K



**Aplicaciones:**

Bombas centrífugas adecuadas para pequeños trasiegos de líquidos, llenado de depósitos y otros usos generales. Las de 2 turbinas son las más adecuadas para su utilización para equipos de presión.

**Características constructivas:**

Cuerpo bomba y soporte en fundición con tratamiento anticorrosivo, incluso en superficie interna. Turbina en tecnopolímero o fundición de hierro, según modelo. Eje en acero inoxidable.

**Motor:**

IE3 asíncrono hermético de ventilación externa, protección termo-amperimétrica incorporada y condensador en versión monofásica.

**TEMPERATURA DEL AGUA A BOMBEAR:**

K-5/8/10/15/17/20/30/31/41 de -10° a + 50° C  
 K-25/40/55/56/75/100/125/150 de -15° a + 110° C

**MÁXIMA TEMPERATURA AMBIENTE:** +40° C

**MÁXIMA PRESIÓN DE TRABAJO:**

|                     |                        |
|---------------------|------------------------|
| K-5/8/10/15/20      | 6 kg./cm <sup>2</sup>  |
| K-17/25/31/41/56    | 8 kg./cm <sup>2</sup>  |
| K-30/40             | 10 kg./cm <sup>2</sup> |
| K-55/75/100/125/150 | 12 kg./cm <sup>2</sup> |

**TIPOS:**

|                                    |                          |
|------------------------------------|--------------------------|
| K-5/8/31/41/56                     | Monoturbina              |
| K-15/20                            | 2 Turbinas iguales       |
| K-10/17/25/30/40/55/75/100/125/150 | 2 Turbinas contrapuestas |



**Applications:**

Centrifugal pumps suitable for small transfer work with liquids, filling tanks and other general uses. The double impeller versions are the most suitable to be used as a pressuring system.

**Constructional features:**

Pump body and support in cast iron with rust-proof treatment, including the internal surface. Technopolymer or cast iron impeller, depending on the model. Shaft in stainless steel.

**Motor:**

IE3 sealed asynchronous motor with external ventilation, built-in thermal and amperimetric protection and capacitor in the single phase version.

**TEMPERATURE OF THE WATER TO BE PUMPED:**

K-5/8/10/15/17/20/30/31/41 from -10° to + 50° C  
 K-25/40/55/56/75/100/125/150 from -15° to + 110° C

**MAXIMUM AMBIENT TEMPERATURE:** +40° C

**MAXIMUM WORKING PRESSURE:**

|                     |                        |
|---------------------|------------------------|
| K-5/8/10/15/20      | 6 Kg./cm <sup>2</sup>  |
| K-17/25/31/41/56    | 8 Kg./cm <sup>2</sup>  |
| K-30/40             | 10 Kg./cm <sup>2</sup> |
| K-55/75/100/125/150 | 12 Kg./cm <sup>2</sup> |

**TYPES:**

|                                     |                           |
|-------------------------------------|---------------------------|
| K-5/8/31/41/56                      | Single impeller           |
| K-15/20                             | 2 equal impellers         |
| K- 10/17/25/30/40/55/75/100/125/150 | 2 counter-posed impellers |

| Tipo<br>Type | Potencia |      | "A"       |            |            | Cond.<br>μF | Caudal m <sup>3</sup> /h / Flow m <sup>3</sup> /h |      |     |     |     |     |     |     |      |        | Diámetro |  |
|--------------|----------|------|-----------|------------|------------|-------------|---|------|-----|-----|-----|-----|-----|-----|------|--------|----------|--|
|              | HP       | KW   | II<br>230 | III<br>230 | III<br>400 |             | 1,2   | 2,4  | 3,6 | 4,8 | 6,0 | 7,2 | 8,4 | 9,6 | 10,8 | ASP.   | IMP.     |  |
|              |          |      |           |            |            |             | Altura m.c.a. / Height w.c.m.                     |      |     |     |     |     |     |     |      |        |          |  |
| K 5-M        | 0,5      | 0,37 | 3         | -          | -          | 10          | 22  | 19   | 17  | 14  | 7   |     |     |     |      | 1"     | 1"       |  |
| K 5-T        |          |      | -         | 2,3        | 1,3        | -           |   |      |     |     |     |     |     |     |      |        |          |  |
| K 8-M        | 1        | 0,75 | 6         | -          | -          | 20          | 30  | 27,5 | 23  | 19  | 16  |     |     |     |      | 1"     | 1"       |  |
| K 8-T        |          |      | -         | 4,3        | 2,5        | -           |   |      |     |     |     |     |     |     |      |        |          |  |
| K 10-M       | 1        | 0,75 | 5,5       | -          | -          | 20          | 42  | 41   | 36  | 27  | 14  |     |     |     |      | 1"     | 1"       |  |
| K 10-T       |          |      | -         | 3,8        | 2,2        | -           |   |      |     |     |     |     |     |     |      |        |          |  |
| K 15-M       | 1,5      | 1,1  | 7,1       | -          | -          | 25          | 39  | 38   | 36  | 34  | 32  | 28  | 24  | 18  | 14   | 1 1/2" | 1"       |  |
| K 15-T       |          |      | -         | 5,4        | 3,1        | -           |   |      |     |     |     |     |     |     |      |        |          |  |
| K 17-M       | 1,5      | 1,1  | 8,3       | -          | -          | 31.5        | 52  | 47   | 42  | 34  | 24  |     |     |     |      | 1 1/4" | 1"       |  |
| K 17-T       |          |      | -         | 6          | 3,5        | -           |   |      |     |     |     |     |     |     |      |        |          |  |

| Tipo<br>Type | Potencia |      | "A"       |            |            | Cond.<br>μF | Caudal m <sup>3</sup> /h / Flow m <sup>3</sup> /h |    |     |    |     |    |      |    |    |    | Diámetro |        |        |
|--------------|----------|------|-----------|------------|------------|-------------|---|----|-----|----|-----|----|------|----|----|----|----------|--------|--------|
|              | HP       | KW   | II<br>230 | III<br>230 | III<br>400 |             | 1,2   | 3  | 4,5 | 6  | 7,5 | 9  | 10,5 | 12 | 18 | 24 | 27       | ASP.   | IMP.   |
|              |          |      |           |            |            |             | Altura m.c.a. / Height w.c.m.                     |    |     |    |     |    |      |    |    |    |          |        |        |
| K 20-M       | 2,5      | 1,83 | 9         | -          | -          | 40          | 49  | 48 | 45  | 42 | 37  | 30 | 23   |    |    |    |          | 1 1/2" | 1"     |
| K 20-T       |          |      | -         | 6,2        | 3,6        | -           |   |    |     |    |     |    |      |    |    |    |          |        |        |
| K 25-M       | 2,5      | 1,83 | 12,8      | -          | -          | 40          | 60  | 55 | 47  | 35 |     |    |      |    |    |    |          | 1 1/4" | 1"     |
| K 25-T       |          |      | -         | 8,4        | 4,8        | -           |   |    |     |    |     |    |      |    |    |    |          |        |        |
| K 30-T       | 3        | 2,2  | -         | 11,6       | 6,7        | -           | 63  | 60 | 57  | 52 | 45  | 39 |      |    |    |    |          | 1 1/2" | 1"     |
| K 31-T       | 3        | 2,2  | -         | 9          | 5,2        | -           | 37  | 36 | 36  | 35 | 34  | 33 | 32   | 31 | 25 |    |          | 2"     | 1 1/4" |
| K 40-T       | 4        | 3    | -         | 14,6       | 8,4        | -           | 72  | 68 | 65  | 61 | 57  | 52 |      |    |    |    |          | 1 1/2" | 1"     |
| K 41-T       | 4        | 3    | -         | 11,1       | 6,4        | -           | 41  | 41 | 41  | 40 | 39  | 38 | 37   | 35 | 28 |    |          | 2"     | 1 1/4" |
| K 55-T       | 5,5      | 4    | -         | 16,5       | 9,5        | -           | 82  | 80 | 78  | 73 | 69  | 61 | 51   |    |    |    |          | 1 1/2" | 1"     |
| K 56-T       | 5,5      | 4    | -         | 16,3       | 9,4        | -           |   | 55 | 55  | 54 | 53  | 52 | 52   | 51 | 43 |    |          | 2"     | 1 1/4" |
| K 75-T*      | 7,5      | 5,5  | -         | -          | 12,9       | -           |   |    |     | 73 | 72  | 71 | 70   | 69 | 58 | 43 |          | 2"     | 1 1/4" |
| K 100-T*     | 10       | 7,5  | -         | -          | 15         | -           |   |    |     | 93 | 93  | 91 | 90   | 89 | 79 | 59 |          | 2"     | 1 1/4" |
| K 125-T*     | 12,5     | 9,2  | -         | -          | 18         | -           |   |    |     |    |     | 84 | 83   | 82 | 74 | 65 | 55       | 2"     | 1 1/4" |
| K 150-T*     | 15       | 11   | -         | -          | 21         | -           |   |    |     |    |     | 95 | 95   | 95 | 88 | 77 | 70       | 2"     | 1 1/4" |

\* Voltaje habitual 400/690. (Bajo demanda 230/400).

\* Standard voltage 400/690. (Under demand 230/400).

# CB



**Aplicaciones:**

Bombas centrífugas biturbina, especialmente aptas para su uso en equipos de presión.

**Aspiración máxima 7 m.c.a.**, en caso de aspiraciones superiores a 4 m.c.a., instalar tubo de mayor diámetro al del orificio de aspiración.

**Características constructivas:**

Rodetes en latón, cuerpo bomba y soporte en fundición, eje en acero inoxidable.

Presión máxima admitida CB-100: 6 bar.

CB 160/210/310/400/600/750: 10 bar.

Temperatura máxima del agua: 90° C.

**Motor:**

Cerrado, autoventilado, grado de protección IP-44, aislamiento clase F, versiones monofásicas con protección térmica y condensador incorporados.



**Applications:**

Double impeller centrifugal pumps particularly suitable for use in pressure units.

**Maximum suction 7 m.c.a.** In the case of suctions of over 4 m.c.a., install a pipe with a wider diameter of the Suction hole .

**Constructional features:**

Brass impellers, pump body and support in cast iron, stainless steel shaft.

Maximum pressure admitted CB-100: 6 bar.

CB 160/210/310/400/600/750: 10 bar.

Maximum water temperature: 90° C.

**Motor:**

Sealed, self-ventilated, IP-44 protection, isolation class F, single phase versions with built-in thermal protection and capacitor.

| Tipo<br>Type | Potencia |      | "A"  |      |      | Cond.<br>µF | Caudal m³/h / Flow m³/h       |     |     |     |     |    |     |    |      |      | Diámetro |        |
|--------------|----------|------|------|------|------|-------------|-------------------------------|-----|-----|-----|-----|----|-----|----|------|------|----------|--------|
|              | HP       | KW   | II   | III  | III  |             | 0,9                           | 1,8 | 2,7 | 3,6 | 4,8 | 6  | 7,2 | 11 | 13,8 | ASP. | IMP.     |        |
|              |          |      | 230  | 230  | 400  |             | Altura m.c.a. / Height w.c.m. |     |     |     |     |    |     |    |      |      |          |        |
| CB 100 M     | 1        | 0,75 | 5,4  | -    | -    | 20          | 44                            | 41  | 38  | 33  | 23  |    |     |    |      |      | 1"       | 1"     |
| CB 100 T     |          |      | -    | 4,1  | 2,4  |             |                               |     |     |     |     |    |     |    |      |      |          |        |
| CB 160 M     | 1,5      | 1,1  | 10,2 | -    | -    | 31,5        | 53                            | 53  | 50  | 46  | 44  | 40 |     |    |      |      | 1 1/4"   | 1"     |
| CB 160 T     |          |      | -    | 7    | 4,1  |             |                               |     |     |     |     |    |     |    |      |      |          |        |
| CB 210 M     | 2,2      | 1,7  | 11,5 | -    | -    | 50          | 58                            | 58  | 56  | 53  | 47  | 44 | 29  |    |      |      | 1 1/4"   | 1"     |
| CB 210 T     |          |      | -    | 8,3  | 4,8  |             |                               |     |     |     |     |    |     |    |      |      |          |        |
| CB 310 T     | 3        | 2,2  | -    | 9    | 5,2  | -           | 65                            | 64  | 62  | 59  | 54  | 47 | 37  |    |      |      | 1 1/4"   | 1"     |
| CB 400 T     | 4        | 3    | -    | 13,1 | 7,6  | -           | 69                            | 69  | 68  | 66  | 63  | 59 | 58  | 45 |      |      | 1 1/2"   | 1 1/4" |
| CB 600 T     | 5,5      | 4    | -    | 16,4 | 9,5  | -           | 81                            | 81  | 80  | 78  | 76  | 72 | 70  | 58 |      |      | 1 1/2"   | 1 1/4" |
| CB 750 T     | 7,5      | 5,5  | -    | -    | 14,7 | -           | 92                            | 92  | 91  | 90  | 88  | 85 | 82  | 70 | 62   |      | 1 1/2"   | 1 1/4" |

# KI



### Aplicaciones:

Bomba centrífuga de la serie KI, **completamente en AISI-304** la hacen adecuada para aguas termales, lavado industrial, presurización civil e industrial (para líquido frío y caliente).

### Características constructivas:

Cuerpo bomba y rodete en acero inoxidable AISI-304, soporte en aluminio y sello mecánico en cerámica-carbono\* y NBR. Las bombas KI cumplen con los requisitos de eficiencia MEI.

\*Bajo demanda, sello mecánico en vitón.

### Motor:

IE3 a 2.850 r.p.m., asíncrono estanco con aislamiento clase F = 155° C. y grado de protección IP-55.

Temperatura del líquido: -10°C a +90°C



### Applications:

Single stage centrifugal pump made in **full AISI-304**, ready to work with thermal water, industrial cleaning, civil and industrial pressurization...

### Constructional features:

Pump body and impeller in stainless steel AISI-304, motor support in aluminium and mechanical seal in ceramic-carbide\* and NBR. The KI pumps comply the MEI efficiency regulation.

\*Viton mechanical seal under demand.

### Motor:

IE3 at 2,850 r.p.m, asynchronous closed with isolation type F (155 ° C) and IP-55 protection.

Fluid temperature: -10°C to +90°C

| Tipo<br>Type | Potencia |      | "A" |     | Caudal m <sup>3</sup> /h / Flow m <sup>3</sup> /h |      |      |      |    |      |      |      |    |        | Diámetro |  |
|--------------|----------|------|-----|-----|---|------|------|------|----|------|------|------|----|--------|----------|--|
|              | HP       | KW   | II  | III | 2   | 4    | 5    | 6    | 7  | 8    | 9    | 10   | 11 | ASP.   | IMP.     |  |
|              |          |      | 230 | 400 | Altura m.c.a. / Height w.c.m.                     |      |      |      |    |      |      |      |    |        |          |  |
| KI 12 M      | 1        | 0,75 | 6,5 | -   | 28  | 26,5 | 24,5 | 23   | 21 | 18   |      |      |    | 1 1/4" | 1"       |  |
| KI 16 M      | 1,3      | 1    | 7   | -   | 30  | 28   | 26,5 | 25,5 | 24 | 22,5 | 21   |      |    | 1 1/4" | 1"       |  |
| KI 16 T      |          |      | -   | 2,9 |   |      |      |      |    |      |      |      |    |        |          |  |
| KI 22 M      | 2        | 1,5  | 9,7 | -   | 38  | 36   | 34   | 33   | 32 | 30   | 28,5 | 26,5 | 25 | 1 1/4" | 1"       |  |

# HK



**Aplicaciones:**

Bomba centrífuga monoturbina especialmente diseñada para suministro de agua primaria o circuitos de recirculación de agua caliente o aire acondicionado.

**Applications:**

A single impeller centrifugal pump especially designed for supplying primary water or hot water recirculation circuits or Air Conditioning.

**Características Constructivas:**

Cuerpo de bomba, soporte y turbina en fundición, excepto Serie HK-10 (tecnopolímero) con tratamiento anticorrosivo incluso en su superficie interna, eje en acero inox. y selló en carbono cerámica.

**Construction:**

Pump body, support and impeller in cast iron, except for the HK-10 (Techno polymer) with rust-proof treatment, including the internal surface, stainless steel shaft, and ceramic carbon seal.

**Motor:**

IE3 de tipo asíncrono, hermético y ventilación externa, protección de seguridad incorporada grado IP-44 y aislamiento tipo F, a partir de 7,5 CV voltaje habitual 400/690.

**Motor:**

IE3 sealed asynchronous motor with external ventilation, built-in IP-44 thermal protection and type F insulation. Standard voltage 400/690 volts from 7.5 HP.

**Temperatura del líquido a bombear:**

-15° C a + 110° C (Serie HK-10: -10° C a + 50° C)

**Maximum water temperature:**

From -15° to +110° C. (HK-10 From -10° to +50° C).

**Máxima temperatura ambiente: 40° C**

**Maximum Ambient temperature: +40° C**

**Presión máxima admitida:**

**Maximum Pressure admitted:**

- HK-10 / HK-25: 6 Kg./cm<sup>2</sup>
- HK-40 / HK-55: 8 Kg./cm<sup>2</sup>
- HK-75-100-101-102-125-126-150-151: 10 Kg./cm<sup>2</sup>

- HK-10 / HK-25: 6 Kg./cm<sup>2</sup>
- HK-40 / HK-55: 8 Kg./cm<sup>2</sup>
- HK-75-100-101-102-125-126-150-151: 10 Kg./cm<sup>2</sup>

| Tipo<br>Type | Potencia |      | "A"       |            |            | Cond.<br>µF | Caudal m <sup>3</sup> /h / Flow m <sup>3</sup> /h |    |    |    |    |    |    |    |    |    |    |    | Diámetro                      |        |    |    |
|--------------|----------|------|-----------|------------|------------|-------------|---|----|----|----|----|----|----|----|----|----|----|----|-------------------------------|--------|----|----|
|              | HP       | KW   | II<br>230 | III<br>230 | III<br>400 |             | 6   | 9  | 12 | 18 | 24 | 30 | 36 | 42 | 48 | 60 | 72 | 90 | ASP.IMP.                      |        |    |    |
|              |          |      |           |            |            |             |   |    |    |    |    |    |    |    |    |    |    |    | Altura m.c.a. / Height w.c.m. |        |    |    |
| HK-10-M      | 1        | 0,75 | 4,6       | -          | -          | 20          | 15  | 13 | 12 | 7  |    |    |    |    |    |    |    |    | 1 1/2"                        | 1 1/2" |    |    |
| HK-10-T      |          |      | -         | 3,6        | 2,1        | -           |   |    |    |    |    |    |    |    |    |    |    |    |                               |        |    |    |
| HK-25-M      | 2,5      | 1,83 | 9,5       | -          | -          | 40          |   |    | 18 | 17 | 16 | 13 | 12 |    |    |    |    |    |                               | 2"     | 2" |    |
| HK-25-T      |          |      | -         | 7,4        | 4,3        | -           |   |    |    |    |    |    |    |    |    |    |    |    |                               |        |    |    |
| HK40         | 4        | 3    | -         | 10,2       | 5,9        | -           |   |    | 29 | 27 | 25 | 19 | 13 |    |    |    |    |    |                               | 2 1/2" | 2" |    |
| HK55         | 5,5      | 4    | -         | 14,7       | 8,5        | -           |   |    | 35 | 33 | 30 | 25 | 19 | 10 |    |    |    |    |                               | 2 1/2" | 2" |    |
| HK75         | 7,5      | 5,5  | -         | -          | 11,5       | -           |   | 50 | 49 | 45 | 37 | 24 |    |    |    |    |    |    |                               | 65     | 50 |    |
| HK100        | 10       | 7,5  | -         | -          | 15         | -           |   | 62 | 61 | 57 | 54 | 44 | 25 |    |    |    |    |    |                               | 65     | 50 |    |
| HK101        | 10       | 7,5  | -         | -          | 14         | -           |   |    | 44 | 43 | 42 | 41 | 38 | 35 | 31 | 23 |    |    |                               | 80     | 65 |    |
| HK102        | 10       | 7,5  | -         | -          | 15,4       | -           |   |    |    | 37 | 36 | 36 | 35 | 34 | 33 | 30 | 24 | 17 |                               | 80     | 65 |    |
| HK125        | 12,5     | 9,2  | -         | -          | 18         | -           |   |    |    | 51 | 50 | 48 | 47 | 44 | 41 | 31 |    |    |                               | 80     | 65 |    |
| HK126        |          |      | -         | -          | 18         | -           |   | 41 | 40 | 39 | 38 | 38 | 37 | 35 | 34 | 29 | 21 |    |                               |        | 80 | 65 |
| HK150        | 15       | 11   | -         | -          | 20,5       | -           |   |    |    | 56 | 55 | 54 | 53 | 51 | 47 | 40 | 32 |    |                               | 80     | 65 |    |
| HK151        |          |      | -         | -          | 19,3       | -           |   | 45 | 44 | 44 | 43 | 42 | 42 | 41 | 38 | 35 | 28 |    |                               |        | 80 | 65 |



# CR



### Aplicaciones:

Las electrobombas de la Serie CR son especialmente adecuadas para grandes trasvases, riegos por goteo, etc. a presiones relativamente bajas.

Serie CRB: electrobombas centrifugas construidas integramente en bronce marino especialmente adecuados para grandes trasvases de líquidos especialmente agresivos o bien agua de mar a presiones relativamente bajas.

### Características constructivas:

Serie CR: cuerpo de bomba, soporte bomba motor y turbina en fundición de alta calidad con un pretratamiento de pintura epoxi-poliéster y secado al horno para darle más durabilidad y resistencia a la oxidación, sello mecánico en cerámica carbón y eje en acero inoxidable AISI-316.

Serie CRB: cuerpo bomba, soporte y turbina en bronce. Eje, tornillería y sello mecánico en acero inoxidable AISI 316. Partes de rozamiento del sello mecánico en carbón-cerámica.

### Motor:

IE3 motor asíncrono normalizado, tipo cerrado y de ventilación externa, apto para trabajo continuo. Grado de protección IP-55, a 2.850 r.p.m. Aislamiento clase F.

|                                    |       |
|------------------------------------|-------|
| <b>Temperatura máxima del agua</b> | 95° C |
| <b>Temperatura máxima ambiente</b> | 40° C |
| <b>Presión máxima admitida</b>     | 6 bar |

# CRB



### Applications:

The electropumps of the CR Series are particularly suitable for large transfers, drip irrigation, etc. at relatively low pressures.

CRB Series: centrifugal electropumps built entirely in marine bronze, particularly suitable for large transfers of very aggressive liquids or sea water at relatively low pressures.

### Constructional features:

CR Series: pump body, motor support and impeller in high strength cast iron with epoxy-polyester paint, mechanical seal in carbon ceramic and stainless steel shaft (aisi 316).

CRB Series: pump body, support and impeller in bronze. Shaft, bolts and mechanical seal in AISI 316 stainless steel. Contact parts of mechanical seal in carbon ceramic.

### Motor:

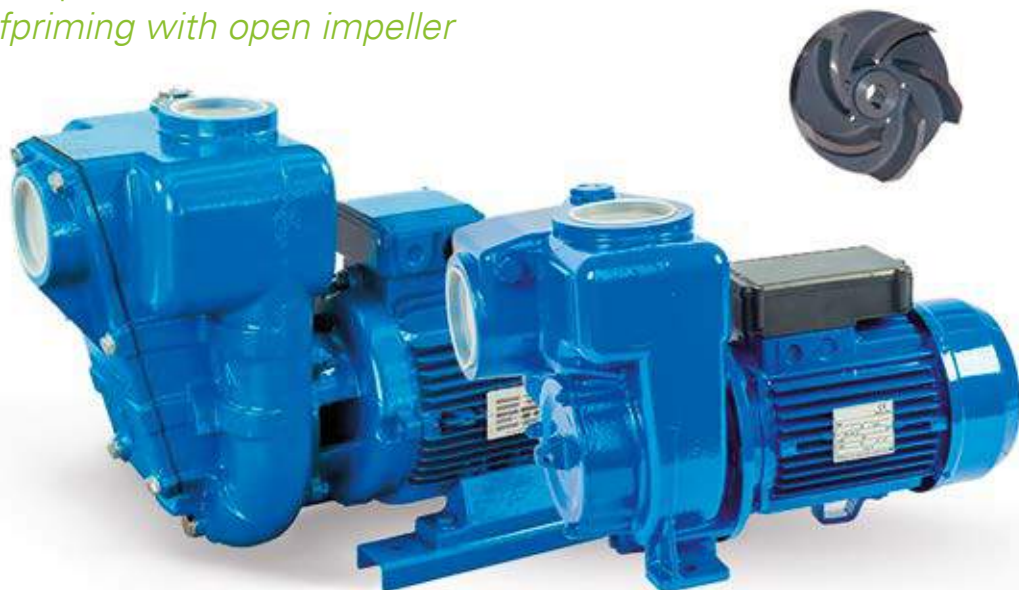
IE3 sealed, asynchronous, with external ventilation, suitable for continuous work. IP-55 protection. All motors are standard at 2,850 r.p.m. Isolation class F.

|                                    |       |
|------------------------------------|-------|
| <b>Maximum water temperature</b>   | 95° C |
| <b>Maximum ambient temperature</b> | 40° C |
| <b>Maximum pressure admitted</b>   | 6 bar |

| Tipo<br>Type              | HP   | KW  | R.P.M | "A"   |       | Altura m.c.a. / Height w.c.m.                     |     |     |     |     |     |     |     |    |  | Ø<br>ASP. | Ø<br>IMP. |        |
|---------------------------|------|-----|-------|-------|-------|---|-----|-----|-----|-----|-----|-----|-----|----|--|-----------|-----------|--------|
|                           |      |     |       |       |       | Caudal m <sup>3</sup> /h / Flow m <sup>3</sup> /h |     |     |     |     |     |     |     |    |  |           |           |        |
|                           |      |     |       | 230 V | 400 V | 6   | 8   | 10  | 12  | 14  | 16  | 18  | 20  | 22 |  |           |           |        |
| <b>CR 300 / CRB 300</b>   | 3    | 2,2 | 2.850 | 9     | 5,2   | 61  | 54  | 51  | 46  | 35  | 29  |     |     |    |  |           | DN 80     | DN 80  |
| <b>CR 400 / CRB 400</b>   | 4    | 3   | 2.850 | 12    | 6,9   | 70  | 64  | 59  | 55  | 49  | 42  | 30  |     |    |  |           | DN 80     | DN 80  |
| <b>CR 550 / CRB 550</b>   | 5,5  | 4   | 2.850 | 16,5  | 9,5   | 95  | 90  | 84  | 77  | 66  | 54  | 32  |     |    |  |           | DN 125    | DN 100 |
| <b>CR 551 / CRB 551</b>   | 5,5  | 4   | 2.850 | 16,5  | 9,5   | 128   | 121 | 107 | 90  | 69  | 30  |     |     |    |  |           | DN 125    | DN 100 |
| <b>CR 750 / CRB 750</b>   | 7,5  | 5,5 | 2.850 | 21,7  | 12,5  | 159   | 152 | 135 | 125 | 109 | 88  | 60  |     |    |  |           | DN 125    | DN 100 |
| <b>CR 1000 / CRB 1000</b> | 10   | 7,5 | 2.850 | -     | 15,5  | 175   | 166 | 158 | 147 | 135 | 119 | 98  | 68  |    |  |           | DN 125    | DN 100 |
| <b>CR 1250 / CRB 1250</b> | 12,5 | 9,2 | 2.850 | -     | 19    | 195   | 188 | 175 | 163 | 150 | 136 | 105 | 86  |    |  |           | DN 125    | DN 100 |
| <b>CR 1500 / CRB 1500</b> | 15   | 11  | 2.850 | -     | 23    | 200   | 197 | 193 | 183 | 170 | 155 | 132 | 110 | 87 |  |           | DN 125    | DN 100 |

# AG

autoaspirantes con rodete abierto  
*selfpriming with open impeller*



## Aplicaciones:

Bombas de agua monobloc autocebantes con impulsor abierto. La válvula de retención dentro de la salida de succión evita el efecto sifón al detenerse y asegura su reinicio automático en cada arranque. Tiene la capacidad de cebarse automáticamente incluso si está parcialmente llena y con la tubería de aspiración completamente vacía. Adecuado para drenar agua limpia o ligeramente sucia y en sistemas de riego por inundación.

## Características constructivas:

- Cuerpo bomba, soporte y turbina en fundición de hierro. Eje motor en acero inoxidable AISI-304. Sello mecánico en cerámica/grafito y NBR.
- Máxima temperatura del líquido: +90°C
- **Capacidad de succión: Hasta 7 metros**

## Motor:

Motor asíncrono a 2900rpm, de ventilación externa apto para trabajo continuo. Protección IP-55. Aislamiento clase F.



## Applications:

*Self-priming monoblock water pumps with open impeller. The check valve inside the suction outlet avoids the syphon effect when stopping and assures the automatic re-start each time. The pump self-primers even if partially filled and if the suction hose is completely empty. Suitable to drain clean or slightly dirty water and in flood irrigation systems.*

## Constructive characteristics:

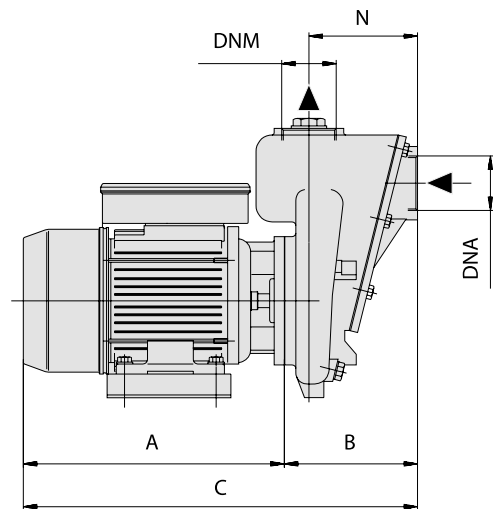
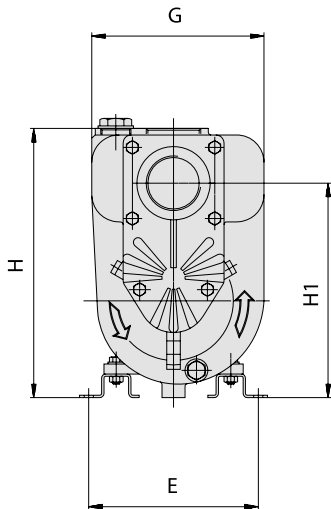
- Cast iron pump body, support and impeller. AISI-304 stainless steel motor shaft. Ceramic / graphite and NBR mechanical seal.
- Maximum liquid temperature: + 90°C
- **Suction capacity: Up to 7 meters**

## Motor:

*Asynchronous motor at 2900 rpm, with external ventilation suitable for continuous duty. IP-55 protection. Class F insulation.*

| Tipo<br>Type  | Potencia |     | "A"        |             |             | Caudal m <sup>3</sup> /h / Flow m <sup>3</sup> /h |      |    |      |      |      |    |    |    |
|---------------|----------|-----|------------|-------------|-------------|---|------|----|------|------|------|----|----|----|
|               | HP       | kW  | II<br>230V | III<br>230V | III<br>400V | 3   | 6    | 12 | 18   | 24   | 30   | 36 | 48 | 60 |
|               |          |     |            |             |             | Altura m.c.a / Height w.c.m                       |      |    |      |      |      |    |    |    |
| AG 50-1,1 M/T | 1,5      | 1,1 | 8,2        | 6,4         | 3,7         | 18,5  | 18   | 16 | 13,5 | 10,5 | 6,5  |    |    |    |
| AG 50-1,5 M/T | 2        | 1,5 | 9,5        | 7,8         | 4,5         |   | 18,5 | 17 | 15   | 12   | 9    | 4  |    |    |
| AG 80-2,2 T   | 3        | 2,2 | -          | 9,9         | 5,7         |   |      |    | 15   | 14   | 13,5 | 13 | 11 | 6  |

| Tipo<br>Type | Potencia |     | "A"         |             | Caudal m <sup>3</sup> /h / Flow m <sup>3</sup> /h |      |    |    |    |      |    |    |      |
|--------------|----------|-----|-------------|-------------|---|------|----|----|----|------|----|----|------|
|              | HP       | kW  | III<br>230V | III<br>400V | 12  | 18   | 24 | 36 | 48 | 60   | 72 | 84 | 96   |
|              |          |     |             |             | Altura m.c.a / Height w.c.m                       |      |    |    |    |      |    |    |      |
| AG 80-4 T    | 5,5      | 4   | 15,3        | 8,8         | 24  | 23   | 22 | 21 | 19 | 17   | 14 | 11 |      |
| AG 80-5,5 T  | 7,5      | 5,5 | 24,3        | 14          |   | 26,5 | 26 | 25 | 24 | 22,5 | 21 | 19 | 16,5 |



| Tipo<br>Type | DIMENSIONES mm / DIMENSIONS mm |     |     |     |     |     |     |     |     |     |
|--------------|--------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|              | A                              | B   | C   | E   | G   | H   | H1  | N   | DNA | DNM |
| AG 50-1,1    | 260                            | 152 | 412 | 185 | 193 | 302 | 240 | 122 | 2"  | 2"  |
| AG 50-1,5    | 260                            | 152 | 412 | 185 | 193 | 302 | 240 | 122 | 2"  | 2"  |
| AG 80-2,2    | 335                            | 193 | 598 | 200 | 193 | 312 | 220 | 150 | 3"  | 3"  |
| AG 80-4      | 377                            | 252 | 629 | 179 | 277 | 443 | 350 | 198 | 3"  | 3"  |
| AG 80-5,5    | 424                            | 252 | 676 | 216 | 277 | 443 | 350 | 198 | 3"  | 3"  |

PARA POTENCIAS SUPERIORES CONSULTE A NUESTRO DEPARTAMENTO COMERCIAL  
FOR HIGHER POWERS CONSULT OUR COMMERCIAL DEPARTMENT

# MN



### Aplicaciones:

Electrobombas Centrifugas Normalizadas cuya construcción es según normas **DIN-24255 - NFE44-III-UNI 7467**.

- Estas bombas son aptas para el bombeo de agua limpia y otros líquidos químicamente no agresivos.
- Posibilidad de montaje en cualquier posición exceptuando la que requiere el orificio de aspiración hacia arriba.
- Bomba ideal para su uso en riegos, equipos de presión, instalaciones de climatización y otras instalaciones del sector civil, industrial o agrario.

**Temperatura máxima del agua SERIE "MN" + 90° C**

**Temperatura máxima ambiente + 40° C**

**Presión máxima de trabajo 10 Bar**

### Características constructivas:

Cuerpo de bomba, soporte bomba motor y turbina en fundición de alta resistencia, orificios de aspiración e impulsión con bridas según normas **UNI 2236 PN 10**. Eje en acero inoxidable.

### Motor:

Motor de inducción, tipo cerrado y autoventilado, apto para trabajo continuo. Grado de protección IP-55 y aislamiento clase F.

**Los motores de la Serie "MN" son todos a 2.850 r.p.m.**

A partir de 7,5 CV voltaje habitual 400/690 V (bajo demanda 230-400 V).



### Applications:

Standardised Centrifugal Electropumps built as per **DIN - 24255 - NFE44-III-UNI 7467**.

- These pumps are suitable for pumping clean water and other liquids that are not chemically aggressive.
- They may be assembled in any position except for positions requiring the suction hole to point upwards.
- An ideal pump for use in sprinkling, pressure units, air conditioning units and other installations in the civil, industrial or agricultural sectors.

**Maximum water temperature in the "MN" SERIES + 90° C**

**Maximum ambient temperature + 40° C**

**Maximum working pressure 10 Bar**

### Constructional features:

Pump body, pump motor support and impeller in high-strength cast iron inlet and outlet holes with flanges as per **UNI 2236 PN 10**. Stainless steel shaft.

### Motor:

Induction motor, sealed and self-ventilated, suitable for continuous work. IP-55 protection and class F insulation.

**The "MN" Series motors are all 2,850 rpm..**

Standard voltage from 7.5 HP IS 400/690 V (230-400 V under demand).

| Tipo<br>Type | Potencia |     | "A"        |            | Caudal m <sup>3</sup> /h / Flow m <sup>3</sup> /h |      |      |      |      |      |      |      |      |      | Diámetro |      |      |
|--------------|----------|-----|------------|------------|---|------|------|------|------|------|------|------|------|------|----------|------|------|
|              | HP       | KW  | III<br>230 | III<br>400 | 0   | 4,5  | 6    | 7,5  | 9    | 12   | 15   | 18   | 21   | 24   | 30       | ASP. | IMP. |
|              |          |     |            |            | Altura m.c.a. / Height w.c.m.                     |      |      |      |      |      |      |      |      |      |          |      |      |
| MN 32-160 C  | 2        | 1,5 | 6,4        | 4          | 24,7  | 24,4 | 24,1 | 23,6 | 23   | 21,5 | 19,6 | 17,2 | 14,1 |      |          | 50   | 32   |
| MN 32-160 B  | 3        | 2,2 | 8,5        | 5,2        | 29  | 29   | 28,5 | 28   | 27,3 | 25,7 | 23,8 | 21,4 | 18,5 | 14,8 |          | 50   | 32   |
| MN 32-160 A  | 4        | 3   | 11,8       | 7,1        | 36,8  | 36,6 | 36,4 | 36   | 35,4 | 34,2 | 32,8 | 31,1 | 28,8 | 26   | 20       | 50   | 32   |
| MN 32-200 C  | 5,5      | 4   | 16,2       | 9,4        | 40  | 39,7 | 39,6 | 39,5 | 39,1 | 38,5 | 37   | 35,2 | 33   | 30,6 |          | 50   | 32   |
| MN 32-200 B  | 7,5      | 5,5 | -          | 14,2       | 50  | 50   | 50   | 50   | 50   | 49   | 48   | 46,5 | 44,5 | 42,5 | 37       | 50   | 32   |
| MN 32-200 A  | 10       | 7,5 | -          | 16,5       | 59  | 59   | 59   | 59   | 59   | 58   | 57   | 56   | 53,5 | 50,5 | 46,2     | 50   | 32   |
| MN 32-250 C  | 12,5     | 9,2 | -          | 20,1       | 70  | 70   | 69   | 68,5 | 68   | 67   | 65,5 | 63,5 | 61,5 | 58,7 | 50,5     | 50   | 32   |
| MN 32-250 B  | 15       | 11  | -          | 24,2       | 82  | 82   | 81,5 | 81   | 80,5 | 79,5 | 78,5 | 77   | 75   | 72,6 | 66,5     | 50   | 32   |
| MN 32-250 A  | 20       | 15  | -          | 30,1       | 93  | 93   | 92,7 | 92,5 | 92   | 91,5 | 90,5 | 89,5 | 88   | 85,7 | 80       | 50   | 32   |

El modelo MN 32-160 C (2 HP) puede suministrarse en versión monofásica.  
 The model MN 32-160 C (2 HP) can be supplied with single phase motor.

| Tipo<br>Type | Potencia |     | "A"        |            | Caudal m <sup>3</sup> /h / Flow m <sup>3</sup> /h |      |      |      |      |      |      |      |      | Diámetro |      |      |      |
|--------------|----------|-----|------------|------------|---|------|------|------|------|------|------|------|------|----------|------|------|------|
|              | HP       | KW  | III<br>230 | III<br>400 | 0   | 9    | 12   | 15   | 18   | 21   | 24   | 27   | 30   | 36       | 42   | ASP. | IMP. |
|              |          |     |            |            | Altura m.c.a. / Height w.c.m.                     |      |      |      |      |      |      |      |      |          |      |      |      |
| MN 40-125 C  | 2        | 1,5 | 6,4        | 4          | 17,7  | 17,5 | 17,3 | 16,9 | 16,4 | 15,8 | 15,1 | 14,2 | 13,3 |          |      | 65   | 40   |
| MN 40-125 B  | 3        | 2,2 | 8,5        | 5,2        | 21,5  | 21,3 | 21,2 | 21   | 20,6 | 20,1 | 19,4 | 18,7 | 17,9 |          |      | 65   | 40   |
| MN 40-125 A  | 4        | 3   | 11,8       | 7,1        | 26  | 25,8 | 25,8 | 25,6 | 25,4 | 24,9 | 24,4 | 23,7 | 22,9 | 21,1     |      | 65   | 40   |
| MN 40-160 B  | 4        | 3   | 13         | 7,4        | 30,3  | 30,1 | 30   | 29,6 | 29   | 28,2 | 27,1 | 25,9 | 24,4 | 21       |      | 65   | 40   |
| MN 40-160 A  | 5,5      | 4   | 18         | 9,9        | 35,8  | 35,6 | 35,5 | 35,3 | 35   | 34,2 | 33,2 | 32   | 30,6 | 27,3     |      | 65   | 40   |
| MN 40-200 B  | 7,5      | 5,5 | -          | 13,2       | 47,5  | 47   | 46,8 | 46,4 | 45,6 | 44,5 | 43,2 | 41,6 | 39,9 | 35,8     |      | 65   | 40   |
| MN 40-200 A  | 10       | 7,5 | -          | 16,8       | 58  | 58   | 58   | 57,9 | 57,6 | 56,9 | 56   | 54,7 | 53   | 48,9     | 43,9 | 65   | 40   |
| MN 40-250 B  | 15       | 11  | -          | 24,2       | 75  | 74,6 | 74,2 | 73,5 | 72,7 | 71,7 | 70,4 | 69   | 67,2 | 62,5     | 56   | 65   | 40   |
| MN 40-250 A  | 20       | 15  | -          | 32         | 92  | 90,4 | 89,8 | 89,3 | 88,5 | 87,5 | 86,6 | 85,5 | 84   | 80,5     | 76   | 65   | 40   |

| Tipo<br>Type | Potencia |      | "A"        |            | Caudal m <sup>3</sup> /h / Flow m <sup>3</sup> /h |      |      |      |      |      |      |      | Diámetro |      |      |      |      |
|--------------|----------|------|------------|------------|---|------|------|------|------|------|------|------|----------|------|------|------|------|
|              | HP       | KW   | III<br>400 | III<br>690 | 0   | 24   | 27   | 30   | 36   | 42   | 48   | 54   | 60       | 66   | 72   | ASP. | IMP. |
|              |          |      |            |            | Altura m.c.a. / Height w.c.m.                     |      |      |      |      |      |      |      |          |      |      |      |      |
| MN 50-125 B  | 4        | 3    | 7,4        | -          | 19,9  | 19,8 | 19,3 | 19,1 | 18,3 | 17,4 | 16,4 | 15,3 | 14       | 12,7 | 11,2 | 65   | 50   |
| MN 50-125 A  | 5,5      | 4    | 9,9        | -          | 24,7  | 24,6 | 24,4 | 24,2 | 23,5 | 22,7 | 21,8 | 20,8 | 19,6     | 18,1 | 16,5 | 65   | 50   |
| MN 50-160 B  | 7,5      | 5,5  | 11,6       | 6,7        | 30,4  | 30,3 | 30,1 | 29,8 | 29   | 28   | 26,7 | 25,1 | 23,3     | 21,3 | 19,1 | 65   | 50   |
| MN 50-160 A  | 10       | 7,5  | 15,8       | 9          | 37  | 36,9 | 36,8 | 36,6 | 36,1 | 35,1 | 34   | 32,6 | 31       | 29,1 | 26,9 | 65   | 50   |
| MN 50-200 C  | 12,5     | 9,2  | 18,5       | 10         | 47  | 45,7 | 45,1 | 44,5 | 42,9 | 40,2 | 38,5 | 35,9 | 33       | 29   | 24,5 | 65   | 50   |
| MN 50-200 B  | 15       | 11   | 21         | 12         | 52  | 51   | 50,5 | 50   | 48,5 | 46,8 | 44,7 | 42,2 | 39,5     | 35,9 | 32   | 65   | 50   |
| MN 50-200 A  | 20       | 15   | 27         | 16         | 58,5  | 58,1 | 58   | 57,5 | 56,4 | 55   | 53,2 | 51,3 | 49       | 46,3 | 42,8 | 65   | 50   |
| MN 50-250 C  | 20       | 15   | 32,5       | 18         | 71,5  | 70,8 | 70,8 | 70,3 | 69   | 67,6 | 66   | 64   | 61,5     | 58,6 | 55   | 65   | 50   |
| MN 50-250 B  | 25       | 18,5 | 41,5       | 24         | 78  | 78   | 78   | 77,4 | 76,1 | 74,5 | 72,8 | 70,6 | 68,2     | 65,5 | 62,2 | 65   | 50   |
| MN 50-250 A  | 30       | 22,5 | 51,5       | 30         | 90  | 89,5 | 89,5 | 88,8 | 87,7 | 86,1 | 84,5 | 82,7 | 80,5     | 78   | 75,2 | 65   | 50   |

# MN

| Tipo<br>Type       | Potencia |      | "A"        |            | Caudal m <sup>3</sup> /h / Flow m <sup>3</sup> /h |      |      |      |      |      |      |      |      |      |      | Diámetro |      |
|--------------------|----------|------|------------|------------|---|------|------|------|------|------|------|------|------|------|------|----------|------|
|                    | HP       | KW   | III<br>400 | III<br>690 | 0   | 48   | 54   | 66   | 72   | 84   | 96   | 108  | 120  | 132  | 144  | ASP.     | IMP. |
|                    |          |      |            |            | Altura m.c.a. / Height w.c.m.                     |      |      |      |      |      |      |      |      |      |      |          |      |
| <b>MN 65-125 B</b> | 7,5      | 5,5  | 12,3       | -          | 19,8  | 20,4 | 20,1 | 19,3 | 18,8 | 17,7 | 16,1 | 14,3 | 12,3 |      |      | 80       | 65   |
| <b>MN 65-125 A</b> | 10       | 7,5  | 15,9       | -          | 24,2  | 24,3 | 24,1 | 23,7 | 23,4 | 22,3 | 20,9 | 19,4 | 17,5 | 15   |      | 80       | 65   |
| <b>MN 65-160 C</b> | 12,5     | 9,2  | 19,5       | 11         | 32  | 31,1 | 30,8 | 30,1 | 29,6 | 28,3 | 26,6 | 24,6 | 22,1 | 19,3 | 16   | 80       | 65   |
| <b>MN 65-160 B</b> | 15       | 11   | 22,5       | 13         | 35  | 34,4 | 34,2 | 33,7 | 33,3 | 32,1 | 30,6 | 28,8 | 26,7 | 24,1 | 21,1 | 80       | 65   |
| <b>MN 65-160 A</b> | 20       | 15   | 30         | 17         | 41  | 40,6 | 40,4 | 40   | 39,7 | 38,9 | 37,7 | 36,2 | 34,3 | 32,2 | 29,8 | 80       | 65   |
| <b>MN 65-200 C</b> | 20       | 15   | 32,5       | 18         | 45  | 44,8 | 44,8 | 44,1 | 43,7 | 42,3 | 40,5 | 38   | 35,3 | 32   |      | 80       | 65   |
| <b>MN 65-200 B</b> | 25       | 18,5 | 41,5       | 24         | 50  | 49,5 | 49,5 | 49   | 48,5 | 47,3 | 45,5 | 43,5 | 41   | 38   |      | 80       | 65   |
| <b>MN 65-200 A</b> | 30       | 22,5 | 51,5       | 30         | 57  | 56,7 | 56,7 | 56,2 | 55,7 | 54,7 | 53,3 | 51,6 | 49,6 | 47,1 | 44   | 80       | 65   |

| Tipo<br>Type       | Potencia |      | "A"        |            | Caudal m <sup>3</sup> /h / Flow m <sup>3</sup> /h |      |      |      |      |      |      |      |      |      |      | Diámetro |      |
|--------------------|----------|------|------------|------------|---|------|------|------|------|------|------|------|------|------|------|----------|------|
|                    | HP       | KW   | III<br>400 | III<br>690 | 0   | 72   | 84   | 96   | 108  | 120  | 144  | 156  | 180  | 200  | 225  | ASP.     | IMP. |
|                    |          |      |            |            | Altura m.c.a. / Height w.c.m.                     |      |      |      |      |      |      |      |      |      |      |          |      |
| <b>MN 80-160 D</b> | 15       | 11   | 20,8       | 12         | 24  | 25,3 | 25,1 | 23,9 | 22,9 | 21,8 | 19,3 | 17,9 | 14,6 |      |      | 100      | 80   |
| <b>MN 80-160 C</b> | 20       | 15   | 25,8       | 15         | 29  | 29,6 | 29   | 28,1 | 27   | 25,9 | 23,4 | 22,0 | 18,7 | 16,4 |      | 100      | 80   |
| <b>MN 80-160 B</b> | 25       | 18,5 | 35         | 20         | 33,5  | 34,1 | 33,4 | 32,7 | 32   | 31   | 29   | 27,7 | 25   | 22,9 |      | 100      | 80   |
| <b>MN 80-160 A</b> | 30       | 22,5 | 42         | 25         | 37  | 37,2 | 37,3 | 36,9 | 36,2 | 35,5 | 33,5 | 32,4 | 29,9 | 28   | 22,9 | 100      | 80   |

# NKM-G NKP-G



1.450 - 2.900 r.p.m.



## Aplicaciones:

Bombas centrífugas Monobloc Normalizadas según Normativa DIN 24255 (DIN EN733 actual).

Con acoplamiento para equipar un motor totalmente Normalizado, ideales para una amplia gama de aplicaciones como puedan ser:

- Circulación de agua para circuitos de calefacción y refrigeración.
- Montajes en equipos de presión.
- Riegos.
- Otras instalaciones del sector civil, industrial o agrario.
- Pueden instalarse en posición horizontal o vertical pero con el motor siempre encima de la bomba.

## Características constructivas:

Cuerpo bomba, soporte y turbina en fundición de hierro de alta resistencia.

Eje bomba que hace a su vez la función de acoplamiento en acero inoxidable AISI 304. Sello mecánico normalizado según DIN 24960 en carbón / carburo de silicio con juntas tóricas en EPDM.

**Bajo demanda las turbinas pueden ser en Bronce.**

## Motor:

IE3 motor asíncrono, cerrado de ventilación externa de forma constructiva B3/B5. Aislamiento clase F, con grado de protección IP55 y tropicalizado. Todos los motores son multifrecuencia y multitensión.

A partir de 15CV (Mec 160) todos los motores incorporan de serie engrasador de cojinetes y sonda de temperatura. Los motores de esta serie pueden ser a 1.450 r.p.m. o 2.900 r.p.m..

**Campo de temperatura de líquido bombeado: de -10° C a +140° C.**



## Applications:

Enbloc, centrifugal motor-driven pumps with coupling designed for a wide range of applications such as:

- Supplying water.
- The circulation of hot water for the central heating.
- The circulation of cold water for air conditioning.
- The transfers of liquids in agriculture, industries.
- The implementation of pumping systems.

## Constructional features:

Single-stage, cast iron spiral body made to DIN-EN 733 (formerly DIN 24255), cast iron support, flanges in accordance with DIN 2533 and DIN 2532 for DN 200. Impeller in cast iron, encased and dynamically balanced with compensation of the axial thrust by means of balancing holes, operating (on request) with interchangeable wear rings. AISI 304 stainless steel pump shaft. Standardised mechanical seal made to DIN 24960 in carbon/silicium carbide with O'rings in EPDM.

## Motor:

IE3 closed, asynchronous motor with external ventilation, construction type B3/B5, 2 poles for NKP, and 4 poles for NKM. The rotor is mounted on extra large ball bearings to guarantee low noise running and durability. We recommend using overload protection for the motor, in accordance with current norms. In the case of liquids denser than water, the motors must be proportionally more powerful.

**Water temperature: -10°C to +140°C**

normalizadas monobloc 1.450 r.p.m. standardized monobloc 1.450 r.p.m.

| MODELO<br><i>MODEL</i>          | P2<br>NOMINAL |      | Q<br>m³/h<br>l/min | 0    | 6    | 12   | 18   | 24   | 30   | 36   | 42   | 48   | 54   | 60   |    |
|---------------------------------|---------------|------|--------------------|------|------|------|------|------|------|------|------|------|------|------|----|
|                                 | HP            | KW   |                    | 0    | 100  | 200  | 300  | 400  | 500  | 600  | 700  | 800  | 900  | 1000 |    |
| NKM-G 32-125.1 - 140 - 0.25 A A | 0,33          | 0,25 | H<br>(m)           | 6,2  | 5,8  | 4,2  |      |      |      |      |      |      |      |      |    |
| NKM-G 32-125 - 142 - 0.37 A A   | 0,5           | 0,37 |                    | 7    | 6,75 | 5,85 | 4,2  |      |      |      |      |      |      |      |    |
| NKM-G 32-160.1 - 169 - 0.37 A A | 0,5           | 0,37 |                    | 9,6  | 8,3  | 5,3  |      |      |      |      |      |      |      |      |    |
| NKM-G 32-160 - 169 - 0.55 A A   | 0,75          | 0,55 |                    | 9,4  | 9    | 8,8  | 5,6  |      |      |      |      |      |      |      |    |
| NKM-G 32-200.1 - 200 - 0.55 A A | 0,75          | 0,55 |                    | 13,4 | 11,5 | 7,2  |      |      |      |      |      |      |      |      |    |
| NKM-G 32-200 - 200 - 0.75 A A   | 1             | 0,75 |                    | 13   | 12,5 | 11,1 | 8,45 |      |      |      |      |      |      |      |    |
| NKM-G 32-200 - 219 - 1.1 A A    | 1,5           | 1,1  |                    | 16   | 15,4 | 14,3 | 12,2 |      |      |      |      |      |      |      |    |
| NKM-G 40-125 - 115 - 0.25 A A   | 0,33          | 0,25 |                    | 4,2  | 4,1  | 3,7  | 3    | 2,1  |      |      |      |      |      |      |    |
| NKM-G 40-125 - 130 - 0.37 A A   | 0,5           | 0,37 |                    | 5,4  | 5,3  | 5    | 4,4  | 3,5  |      |      |      |      |      |      |    |
| NKM-G 40-125 - 142 - 0.55 A A   | 0,75          | 0,55 |                    | 6,6  | 6,5  | 6,2  | 5,7  | 4,8  |      |      |      |      |      |      |    |
| NKM-G 40-160 - 153 - 0.55 A A   | 0,75          | 0,55 |                    | 7,6  | 7,7  | 7,6  | 6,7  | 5,5  |      |      |      |      |      |      |    |
| NKM-G 40-160 - 166 - 0.75 A A   | 1             | 0,75 |                    | 9,2  | 9,2  | 9    | 8,4  | 7,4  | 5,7  |      |      |      |      |      |    |
| NKM-G 40-200 - 200 - 1.1 A A    | 1,5           | 1,1  |                    | 12,6 | 12,6 | 12,3 | 11,2 | 9,7  | 7,7  |      |      |      |      |      |    |
| NKM-G 40-200 - 219 - 1.5 A A    | 2             | 1,5  |                    | 15,6 | 15,6 | 15,3 | 14,7 | 13,4 | 11,8 | 9,8  |      |      |      |      |    |
| NKM-G 40-250 - 245 - 2.2 A A    | 3             | 2,2  |                    | 20,6 | 20,5 | 20,1 | 19,2 | 17,8 | 16   |      |      |      |      |      |    |
| NKM-G 40-250 - 260 - 3 A A      | 4             | 3    |                    | 23,3 | 23,1 | 22,8 | 22,2 | 20,8 | 19   |      |      |      |      |      |    |
| NKM-G 50-125 - 130 - 0.55 A A   | 0,75          | 0,55 |                    | 5,5  |      | 5,2  | 5    | 4,7  | 4,3  | 3,9  | 3,3  | 2,6  |      |      |    |
| NKM-G 50-125 - 141 - 0.75 A A   | 1             | 0,75 |                    | 6,5  |      | 6,3  | 6,1  | 5,8  | 5,5  | 5    | 4,5  | 3,9  |      |      |    |
| NKM-G 50-160 - 161 - 1.1 A A    | 1,5           | 1,1  |                    | 8,7  |      | 8,7  | 8,5  | 8,2  | 7,8  | 7,3  | 6,7  | 5,7  |      |      |    |
| NKM-G 50-160 - 177 - 1.5 A A    | 2             | 1,5  |                    | 10,8 |      | 10,8 | 10,7 | 10,5 | 10,2 | 9,8  | 9,2  | 8,3  |      |      |    |
| NKM-G 50-200 - 210 - 2.2 A A    | 3             | 2,2  |                    | 15,3 |      | 15,3 | 15,2 | 14,8 | 14   | 13,3 | 12,1 | 10,8 | 9,4  |      |    |
| NKM-G 50-200 - 219 - 3 A A      | 4             | 3    |                    | 16,8 |      | 16,8 | 16,5 | 16,1 | 15,5 | 14,6 | 13,6 | 12,4 | 10,9 |      |    |
| NKM-G 50-250 - 263 - 4 A A      | 5,5           | 4    |                    | 23,8 |      | 24   | 23,8 | 23,4 | 22,7 | 21,6 | 20,4 | 19   | 17,1 |      |    |
| NKM-G 65-125 - 130 - 0.75 A A   | 1             | 0,75 |                    | 5,1  |      | 4,9  | 4,8  | 4,75 | 4,7  | 4,4  | 4,2  | 3,8  | 3,4  | 3    |    |
| NKM-G 65-125 - 144 - 1.1 A A    | 1,5           | 1,1  |                    | 6,5  |      | 6,4  | 6,4  | 6,3  | 6,2  | 6    | 5,75 | 5,5  | 5,1  | 4,7  |    |
| NKM-G 65-160 - 153 - 1.1 A A    | 1,5           | 1,1  |                    | 7,4  |      | 7,4  | 7,3  | 7,15 | 6,9  | 6,65 | 6,25 | 5,8  | 5,3  | 4,4  |    |
| NKM-G 65-160 - 165 - 1.5 A A    | 2             | 1,5  |                    | 8,9  |      |      | 8,8  | 8,7  | 8,6  | 8,3  | 8    | 7,6  | 7,15 | 6,6  |    |
| NKM-G 65-160 - 177 - 2.2 A A    | 3             | 2,2  |                    | 10,5 |      |      |      | 10,4 | 10,3 | 10,2 | 9,9  | 9,6  | 9,2  | 8,8  |    |
| NKM-G 65-200 - 210 - 3 A A      | 4             | 3    |                    | 15,3 |      |      |      | 15,4 | 15,3 | 15   | 14,6 | 14,1 | 13,5 | 12,9 |    |
| NKM-G 65-200 - 219 - 4 A A      | 5,5           | 4    |                    | 17   |      |      |      | 17,2 | 17,2 | 17,1 | 16,8 | 16,5 | 16,2 | 15,7 |    |
| NKM-G 65-250 - 263 - 5.5 A A    | 7,5           | 5,5  |                    | 24,1 |      |      |      | 23,8 | 23,6 | 23,3 | 22,8 | 22,3 | 21,5 | 20,8 |    |
| NKM-G 65-315 - 279 - 7.5 A A    | 10            | 7,5  |                    | 27   |      |      |      |      |      |      | 26   | 25,5 | 25   | 24,5 |    |
| NKM-G 65-315 - 309 - 11 A A     | 15            | 11   |                    | 34,2 |      |      |      |      |      |      | 33,2 | 33   | 32,5 | 32   |    |
| NKM-G 80-160 - 153 - 1.5 A A    | 2             | 1,5  |                    | 6,5  |      |      |      |      | 6,35 | 6,3  | 6,2  | 5,95 | 5,75 | 5,5  |    |
| NKM-G 80-160 - 163 - 2.2 A A    | 3             | 2,2  |                    | 8,65 |      |      |      |      | 8,5  | 8,45 | 8,3  | 8,15 | 7,9  | 7,7  |    |
| NKM-G 80-160 - 177 - 3 A A      | 4             | 3    |                    | 10,2 |      |      |      |      | 10,2 | 10,1 | 10   | 9,9  | 9,75 | 9,7  |    |
| NKM-G 80-200 - 200 - 4 A A      | 5,5           | 4    |                    | 13,2 |      |      |      |      |      |      | 13,2 | 13,2 | 13,1 | 12,9 |    |
| NKM-G 80-200 - 222 - 5.5 A A    | 7,5           | 5,5  |                    | 16,5 |      |      |      |      |      |      | 16,6 | 16,5 | 16,4 | 16,2 |    |
| NKM-G 80-250 - 240 - 7.5 A A    | 10            | 7,5  |                    | 20,5 |      |      |      |      |      |      | 21   | 21   | 21   | 20,7 |    |
| NKM-G 80-250 - 270 - 11 A A     | 15            | 11   |                    | 25,5 |      |      |      |      |      |      | 25,5 | 25,5 | 25,5 | 25,1 |    |
| NKM-G 80-315 - 305 - 15 A A     | 20            | 15   |                    | 32,9 |      |      |      |      |      |      |      |      |      | 33,1 | 33 |
| NKM-G 80-315 - 320 - 18.5 A A   | 25            | 18,5 |                    | 36,8 |      |      |      |      |      |      |      |      |      | 37,1 | 37 |
| NKM-G 80-315 - 334 - 22 A A     | 30            | 22   | 41                 |      |      |      |      |      |      |      |      |      | 41,4 | 41,4 |    |
| NKM-G 100-200 - 200 - 5.5 A A   | 7,5           | 5,5  | 12,7               |      |      |      |      |      |      |      |      |      |      | 12,6 |    |
| NKM-G 100-200 - 214 - 7.5 A A   | 10            | 7,5  | 15,6               |      |      |      |      |      |      |      |      |      |      | 15,4 |    |
| NKM-G 100-250 - 250 - 11 A A    | 15            | 11   | 21                 |      |      |      |      |      |      |      |      |      |      | 21,5 |    |
| NKM-G 100-250 - 270 - 15 A A    | 20            | 15   | 25,5               |      |      |      |      |      |      |      |      |      |      | 25,5 |    |
| NKM-G 100-315 - 300 - 18.5 A A  | 25            | 18,5 | 32                 |      |      |      |      |      |      |      |      |      |      |      |    |
| NKM-G 100-315 - 316 - 22 A A    | 30            | 22   | 36                 |      |      |      |      |      |      |      |      |      |      |      |    |
| NKM-G 125-250 - 243 - 15 A A    | 20            | 15   | 19,5               |      |      |      |      |      |      |      |      |      |      |      |    |
| NKM-G 125-250 - 256 - 18.5 A A  | 25            | 18,5 | 22                 |      |      |      |      |      |      |      |      |      |      |      |    |
| NKM-G 125-250 - 266 - 22 A A    | 30            | 22   | 24,6               |      |      |      |      |      |      |      |      |      |      |      |    |
| NKM-G 150-200 - 218 - 11 A A    | 15            | 11   | 13,2               |      |      |      |      |      |      |      |      |      |      |      |    |





| MODELO<br><i>MODEL</i>          | P2 NOMINAL |      | Q<br>m³/h<br>l/min | 0    | 6    | 12   | 18   | 24   | 30   | 36   | 42   | 48   | 54   | 60   |      |
|---------------------------------|------------|------|--------------------|------|------|------|------|------|------|------|------|------|------|------|------|
|                                 | HP         | KW   |                    | 0    | 100  | 200  | 300  | 400  | 500  | 600  | 700  | 800  | 900  | 1000 |      |
| NKP-G 32-125.1 - 102 - 0.75 A A | 1          | 0,75 | H<br>(m)           | 13   | 12,5 | 11   | 8    |      |      |      |      |      |      |      |      |
| NKP-G 32-125.1 - 115 - 1.1 A A  | 1,5        | 1,1  |                    | 17,2 | 17   | 15   | 12,5 |      |      |      |      |      |      |      |      |
| NKP-G 32-125.1 - 125 - 1.5 A A  | 2          | 1,5  |                    | 21   | 20,8 | 19   | 16,8 |      |      |      |      |      |      |      |      |
| NKP-G 32-125.1 - 140 - 2.2 A A  | 3          | 2,2  |                    | 27   | 26,9 | 25,9 | 23   | 19,5 |      |      |      |      |      |      |      |
| NKP-G 32-125 - 110 - 1.1 A A    | 1,5        | 1,1  |                    | 15,8 | 15,4 | 14,5 | 12,9 | 9,9  |      |      |      |      |      |      |      |
| NKP-G 32-125 - 120 - 1.5 A A    | 2          | 1,5  |                    | 19,4 | 19   | 18,2 | 16,8 | 14,5 |      |      |      |      |      |      |      |
| NKP-G 32-125 - 130 - 2.2 A A    | 3          | 2,2  |                    | 23,7 | 23,4 | 23   | 21,8 | 19,8 | 16,8 |      |      |      |      |      |      |
| NKP-G 32-125 - 142 - 3 A A      | 4          | 3    |                    | 28,6 | 28,2 | 27,6 | 26,5 | 24,6 | 21,8 | 17,9 |      |      |      |      |      |
| NKP-G 32-160.1 - 155 - 2.2 A A  | 3          | 2,2  |                    | 32   | 31   | 27   | 22   |      |      |      |      |      |      |      |      |
| NKP-G 32-160.1 - 166 - 3 A A    | 4          | 3    |                    | 38   | 36   | 33   | 28   |      |      |      |      |      |      |      |      |
| NKP-G 32-160 - 151 - 3 A A      | 4          | 3    |                    | 30,5 | 30   | 29   | 27   | 24   | 19,5 |      |      |      |      |      |      |
| NKP-G 32-160 - 163 - 4 A A      | 5,5        | 4    |                    | 36   | 36   | 35   | 33,5 | 30,5 | 27   | 22   |      |      |      |      |      |
| NKP-G 32-160 - 177 - 5.5 A A    | 7,5        | 5,5  |                    | 43,5 | 43,2 | 42,6 | 41,5 | 39   | 36   | 31,5 | 25,5 |      |      |      |      |
| NKP-G 32-200.1 - 188 - 4 A A    | 5,5        | 4    |                    | 51   | 48   | 44   | 37   |      |      |      |      |      |      |      |      |
| NKP-G 32-200.1 - 205 - 5.5 A A  | 7,5        | 5,5  |                    | 57   | 56   | 52   | 46   | 35   |      |      |      |      |      |      |      |
| NKP-G 32-200 - 190 - 5.5 A A    | 7,5        | 5,5  |                    | 47   | 46,5 | 45   | 43   | 40   | 35   | 29   |      |      |      |      |      |
| NKP-G 32-200 - 210 - 7.5 A A    | 10         | 7,5  |                    | 58,5 | 58   | 57   | 56   | 53   | 49   | 44   |      |      |      |      |      |
| NKP-G 40-125 - 107 - 1.5 A A    | 2          | 1,5  |                    | 14,7 | 14,5 | 14,3 | 13,8 | 13   | 11,8 | 10,5 | 8,6  | 7    |      |      |      |
| NKP-G 40-125 - 120 - 2.2 A A    | 3          | 2,2  |                    | 19   | 18,7 | 18,4 | 17,8 | 17   | 15,9 | 14,6 | 13   | 11   |      |      |      |
| NKP-G 40-125 - 130 - 3 A A      | 4          | 3    |                    | 22,8 | 22,5 | 22,3 | 22   | 21,2 | 20,2 | 19   | 17,4 | 15,5 | 13,5 |      |      |
| NKP-G 40-125 - 139 - 4 A A      | 5,5        | 4    |                    | 26,4 | 26,2 | 26   | 25,6 | 25   | 24   | 23   | 21,5 | 19,5 | 17,5 | 15   |      |
| NKP-G 40-160 - 158 - 5.5 A A    | 7,5        | 5,5  |                    | 34   |      |      | 34   | 33,5 | 32,5 | 31   | 29,5 | 27   | 24   |      |      |
| NKP-G 40-160 - 172 - 7.5 A A    | 10         | 7,5  |                    | 41   |      |      | 41   | 41   | 40   | 39   | 37,5 | 35,5 | 33   | 30   |      |
| NKP-G 40-200 - 210 - 11 A A     | 15         | 11   |                    | 57   | 57,5 | 58   | 58   | 57,5 | 57   | 55   | 53   | 50   | 47   | 43,5 |      |
| NKP-G 40-250 - 230 - 15 A A     | 20         | 15   |                    | 72,5 |      |      | 72,5 | 72   | 70   | 68   | 66   | 62,5 | 60   | 56   |      |
| NKP-G 40-250 - 245 - 18.5 A A   | 25         | 18,5 |                    | 83   |      |      | 83   | 82,5 | 81,5 | 80   | 77   | 74   | 71,5 | 67,5 |      |
| NKP-G 40-250 - 260 - 22 A A     | 30         | 22   |                    | 96   |      |      | 96   | 94,5 | 93,5 | 92   | 90   | 87,5 | 84   | 81   |      |
| NKP-G 50-125 - 115 - 3 A A      | 4          | 3    |                    | 17   |      |      |      | 16,5 | 16   | 15,5 | 15   | 14,5 | 13,7 | 13   |      |
| NKP-G 50-125 - 125 - 4 A A      | 5,5        | 4    |                    | 20,5 |      |      |      |      | 20   | 19,5 | 19,1 | 18,5 | 18   | 17,5 | 16,5 |
| NKP-G 50-125 - 135 - 5.5 A A    | 7,5        | 5,5  |                    | 24   |      |      |      |      | 23,6 | 23,5 | 23,2 | 22,8 | 22,2 | 21,5 | 21   |
| NKP-G 50-125 - 144 - 7.5 A A    | 10         | 7,5  |                    | 28   |      |      |      |      | 27,8 | 27,5 | 27,3 | 27   | 26,5 | 25,8 | 25,5 |
| NKP-G 50-160 - 153 - 7.5 A A    | 10         | 7,5  |                    | 32   |      |      |      |      | 32,5 | 32,4 | 32   | 31,5 | 31   | 30,5 | 29,5 |
| NKP-G 50-160 - 169 - 11 A A     | 15         | 11   |                    | 39,5 |      |      |      |      |      | 40   | 39,8 | 39,5 | 39   | 38,5 | 38   |
| NKP-G 50-200 - 200 - 15 A A     | 20         | 15   |                    | 55   |      |      |      |      |      | 56   | 55,5 | 54   | 53,5 | 52   | 51   |
| NKP-G 50-200 - 210 - 18.5 A A   | 25         | 18,5 |                    | 61,5 |      |      |      |      |      | 62   | 62   | 61,5 | 60,5 | 59   | 58   |
| NKP-G 50-200 - 219 - 22 A A     | 30         | 22   |                    | 67,5 |      |      |      |      |      | 68   | 67,5 | 67   | 66   | 65,5 | 64   |
| NKP-G 50-250 - 230 - 22 A A     | 30         | 22   |                    | 73,5 |      |      |      |      |      | 75   | 74,5 | 73,8 | 73,5 | 71   | 68,5 |
| NKP-G 50-250 - 257 - 30 A A     | 40         | 30   |                    | 92,5 |      |      |      |      |      | 94   | 94   | 93,6 | 93,5 | 91   | 89   |
| NKP-G 65-125 - 120/110 - 4 A A  | 5,5        | 4    |                    | 16   |      |      |      |      |      |      | 15   | 14,6 | 14,2 | 13,7 | 13,3 |
| NKP-G 65-125 - 127 - 5.5 A A    | 7,5        | 5,5  |                    | 19,5 |      |      |      |      |      |      | 19   | 18,9 | 18,7 | 18,4 | 18,1 |
| NKP-G 65-125 - 137 - 7.5 A A    | 10         | 7,5  |                    | 23,5 |      |      |      |      |      |      | 23,1 | 23   | 22,8 | 22,6 | 22,5 |
| NKP-G 65-160 - 157 - 11 A A     | 15         | 11   |                    | 32,5 |      |      |      |      |      |      |      |      | 32,2 | 32   | 31,8 |
| NKP-G 65-160 - 173 - 15 A A     | 20         | 15   |                    | 40   |      |      |      |      |      |      |      |      | 40,2 | 40   | 39,8 |
| NKP-G 65-200 - 190 - 18.5 A A   | 25         | 18,5 |                    | 51,5 |      |      |      |      |      |      |      |      | 52   | 52   | 51,5 |
| NKP-G 65-200 - 200 - 22 A A     | 30         | 22   |                    | 56,5 |      |      |      |      |      |      |      |      | 58   | 58   | 57,5 |
| NKP-G 65-200 - 219 - 30 A A     | 40         | 30   | 68,5               |      |      |      |      |      |      |      |      | 70   | 70   | 70   |      |
| NKP-G 80-160 - 147/127 - 11 A A | 15         | 11   | 24                 |      |      |      |      |      |      |      |      |      |      |      |      |
| NKP-G 80-160 - 153 - 15 A A     | 20         | 15   | 30,5               |      |      |      |      |      |      |      |      |      |      |      |      |
| NKP-G 80-160 - 163 - 18.5 A A   | 25         | 18,5 | 35,5               |      |      |      |      |      |      |      |      |      |      |      |      |
| NKP-G 80-160 - 169 - 22 A A     | 30         | 22   | 38,5               |      |      |      |      |      |      |      |      |      |      |      |      |
| NKP-G 80-200 - 190 - 30 A A     | 40         | 30   | 48                 |      |      |      |      |      |      |      |      |      |      |      |      |



# KDN



## Aplicaciones:

Bombas centrífugas a eje libre o sobre bancada normalizadas según Normativa DIN 24255 (DIN EN733 actual). Ideales para una amplia gama de aplicaciones como puedan ser:

- Circulación de agua para circuitos de calefacción y refrigeración.
- Montajes en equipos de presión.
- Riegos.
- Otras instalaciones del sector civil, industrial o agrario.
- Pueden ser acopladas con un acoplamiento elástico a un motor de 1.450 - 2.900 r.p.m. y montada sobre una bancada rígida.

**Bajo demanda las turbinas pueden ser en bronce.**

## Características constructivas:

Cuerpo bomba, tapa porta sello mecánico, soporte en fundición de hierro. Turbina en fundición de hierro cerrada y equilibrada dinámicamente con compensación del esfuerzo axial. Eje bomba en Acero Inoxidable AISI 304 soportado por dos cojinetes de esferas ampliamente dimensionadas, engrasadas de por vida y alojadas en una cámara en el interior del soporte. Cierre mecánico normalizado según la DIN 24960 en carbón - carburo de silicio con juntas tóricas EPDM.

## Motor:

IE3 motor asíncrono, cerrado de ventilación externa de forma constructiva B3. Aislamiento clase F, con grado de protección IP55 y tropicalizado. Todos los motores son multifrecuencia y multitensión. A partir de 15CV (Mec 160) todos los motores incorporan de serie engrasador de cojinetes y sonda de temperatura. Los motores de esta serie pueden ser a 1.450 r.p.m. o 2.900 r.p.m..

**Campo de temperatura de líquido bombeado: de -10° C a + 140° C.**



## Aplicaciones:

*Bare shaft, enbloc, centrifugal motor-driven pumps with coupling designed for a wide range of applications such as:*

- *Supplyng water.*
- *The circulation of ot water for the central heating.*
- *The circulation of cold water for air conditioning.*
- *The transfers of liquids in agriculture, industries.*
- *Hydraulic pumps can be coupled by an elastic coupling to a motor at 1450rpm or a motor at 2900rpm and mounted on a rigid bench.*

**Bronze impeller under demand.**

## Constructional features:

*Single-stage, cast iron spiral body made to DIN-EN 733 (formely DIN 24255), cast iron support, flanges in accordance with DIN 2533 and DIN 2532 for DN 200. Impeller in cast iron, encased and dynamically balanced with compensation of the axial thrust by means of balancing holes, operating (on request) with interchangeable wear rings. AISI 304 stainless steel pump shaft. Standardised mechanical seal made to DIN 24960 in carbon/silicium carbide with O'rings in EPDM.*

## Motor:

*IE3 closed, asynchronous motor with external ventilation, construction type B3 for 2 poles and 4 poles. The rotor is monted on extra large ball bearings to guarantee low noise running and durability. We recommend using overload protection for the motor, in accordance with current norms. In the case of liquids denser than water, the motors must be proportionally more powerfull. ip-55 protection insulation F.*

**Pumped liquid temperature range: -10° C to + 140° C.**

## KDN Normalizadas a 2.900 r.p.m. / Standardized to 2.900 r.p.m.

| MODELO / MODEL     | Q<br>m <sup>3</sup> /h<br>l/min | 0          | 3        | 6          | 12         | 18         | 24         | 30         | 36         | 42        | 48  | 54  |
|--------------------|---------------------------------|------------|----------|------------|------------|------------|------------|------------|------------|-----------|-----|-----|
|                    |                                 | 0          | 50       | 100        | 200        | 300        | 400        | 500        | 500        | 700       | 800 | 900 |
| KDN 32-125.1 / 105 | H<br>(m)                        | 13,8 - 1,5 |          | 13,6 - 1,5 | 12,3 - 1,5 | 9,7 - 1,5  |            |            |            |           |     |     |
| KDN 32-125.1 / 110 |                                 | 15,5 - 1,5 |          | 15,2 - 1,5 | 13,9 - 2   | 11,5 - 2   |            |            |            |           |     |     |
| KDN 32-125.1 / 115 |                                 | 17,1 - 1,5 |          | 16,8 - 1,5 | 15,5 - 2   | 13,2 - 2   |            |            |            |           |     |     |
| KDN 32-125.1 / 120 |                                 | 18,8 - 2   |          | 18,5 - 2   | 17,3 - 2   | 15,1 - 3   |            |            |            |           |     |     |
| KDN 32-125.1 / 125 |                                 | 20,5 - 2   |          | 20,3 - 2   | 19,1 - 3   | 17 - 3     |            |            |            |           |     |     |
| KDN 32-125.1 / 130 |                                 | 22,3 - 2   |          | 22,1 - 2   | 21,3 - 3   | 19 - 3     |            |            |            |           |     |     |
| KDN 32-125.1 / 135 |                                 | 24,4 - 2   |          | 24,1 - 2   | 23,3 - 3   | 21,1 - 4   | 17,8 - 4   |            |            |           |     |     |
| KDN 32-125.1 / 140 |                                 | 26,5 - 2   |          | 26,4 - 2   | 25,6 - 3   | 23 - 4     | 20,1 - 5,5 |            |            |           |     |     |
| KDN 32-125 / 115   |                                 | 17,3 - 2   |          |            | 16,5 - 2   | 15,1 - 3   | 12,9 - 3   |            |            |           |     |     |
| KDN 32-125 / 120   |                                 | 19 - 2     |          |            | 18,2 - 2   | 17 - 3     | 14,9 - 3   | 11,1 - 3   |            |           |     |     |
| KDN 32-125 / 125   |                                 | 20,9 - 3   |          |            | 20,1 - 3   | 18,9 - 3   | 16,9 - 3   | 13,5 - 3   |            |           |     |     |
| KDN 32-125 / 130   |                                 | 22,9 - 3   |          |            | 22 - 3     | 21 - 3     | 19,1 - 4   | 16,2 - 4   |            |           |     |     |
| KDN 32-125 / 135   |                                 | 24,9 - 3   |          |            | 24 - 3     | 22,1 - 4   | 21,5 - 4   | 18,5 - 5,5 | 14,7 - 5,5 |           |     |     |
| KDN 32-125 / 142   |                                 | 27,8 - 4   |          |            | 27 - 4     | 26,1 - 4   | 24,5 - 5,5 | 21,7 - 5,5 | 18 - 5,5   |           |     |     |
| KDN 32-160.1 / 137 |                                 | 24 - 2     |          | 22 - 2     | 18,8 - 3   |            |            |            |            |           |     |     |
| KDN 32-160.1 / 145 |                                 | 27 - 2     |          | 25,5 - 2   | 22 - 3     | 15,5 - 3   |            |            |            |           |     |     |
| KDN 32-160.1 / 153 |                                 | 30 - 3     |          | 28,5 - 3   | 25,5 - 3   | 20 - 4     |            |            |            |           |     |     |
| KDN 32-160.1 / 161 |                                 | 33 - 3     |          | 31,6 - 3   | 29 - 4     | 24,5 - 5,5 |            |            |            |           |     |     |
| KDN 32-160.1 / 169 |                                 | 36,5 - 3   |          | 35 - 3     | 32,5 - 4   | 28,5 - 5,5 | 21,7 - 7,5 |            |            |           |     |     |
| KDN 32-160.1 / 177 |                                 | 40,5 - 4   |          | 39 - 4     | 36,5 - 5,5 | 33 - 5,5   | 26,2 - 7,5 |            |            |           |     |     |
| KDN 32-160 / 137   | 23,7 - 3                        |            |          | 22,6 - 3   | 20,7 - 4   | 17,6 - 4   |            |            |            |           |     |     |
| KDN 32-160 / 145   | 27 - 4                          |            |          | 25,8 - 4   | 23,9 - 4   | 21,2 - 5,5 | 16,9 - 5,5 |            |            |           |     |     |
| KDN 32-160 / 153   | 30,4 - 4                        |            |          | 29,5 - 4   | 27,7 - 5,5 | 25,8 - 5,5 | 21,2 - 7,5 |            |            |           |     |     |
| KDN 32-160 / 161   | 34 - 5,5                        |            |          | 33 - 5,5   | 31,7 - 5,5 | 29,1 - 7,5 | 25,5 - 7,5 |            |            |           |     |     |
| KDN 32-160 / 169   | 38 - 5,5                        |            |          | 37,3 - 5,5 | 36 - 7,5   | 33,6 - 7,5 | 35,7 - 7,5 | 26,5 - 10  |            |           |     |     |
| KDN 32-160 / 177   | 41,8 - 5,5                      |            |          | 41,5 - 5,5 | 40,5 - 7,5 | 38,4 - 7,5 | 35,3 - 10  | 31,4 - 10  |            |           |     |     |
| KDN 32-200.1 / 170 | 37 - 4                          |            | 35,5 - 4 | 31 - 4     | 23 - 4     |            |            |            |            |           |     |     |
| KDN 32-200.1 / 180 | 41,9 - 4                        |            | 40 - 4   | 36 - 5,5   | 28,8 - 5,5 |            |            |            |            |           |     |     |
| KDN 32-200.1 / 190 | 46,5 - 5,5                      |            | 45 - 5,5 | 41 - 5,5   | 35,5 - 7,5 |            |            |            |            |           |     |     |
| KDN 32-200.1 / 200 | 51,8 - 5,5                      |            | 50 - 5,5 | 46,5 - 7,5 | 40,5 - 7,5 | 31 - 7,5   |            |            |            |           |     |     |
| KDN 32-200.1 / 207 | 55,1 - 7,5                      |            | 54 - 7,5 | 50,5 - 7,5 | 45 - 10    | 35 - 10    |            |            |            |           |     |     |
| KDN 32-200 / 170   | 34 - 5,5                        |            |          | 33 - 5,5   | 31 - 5,5   | 27 - 7,5   | 21 - 7,5   |            |            |           |     |     |
| KDN 32-200 / 180   | 39 - 5,5                        |            |          | 38,5 - 5,5 | 36,5 - 7,5 | 32,5 - 7,5 | 28 - 7,5   |            |            |           |     |     |
| KDN 32-200 / 190   | 45 - 7,5                        |            |          | 43,5 - 7,5 | 42 - 7,5   | 39 - 7,5   | 34 - 10    | 28,5 - 10  |            |           |     |     |
| KDN 32-200 / 200   | 51 - 7,5                        |            |          | 49 - 7,5   | 48 - 7,5   | 45 - 10    | 40,5 - 10  | 35 - 10    |            |           |     |     |
| KDN 32-200 / 210   | 57 - 7,5                        |            |          | 56 - 7,5   | 55 - 10    | 52,5 - 10  | 48,5 - 15  | 43 - 15    | 36 - 15    |           |     |     |
| KDN 32-200 / 219   | 63 - 10                         |            |          | 62 - 10    | 61 - 10    | 59 - 15    | 56,5 - 15  | 52,5 - 15  | 46,5 - 15  | 39,5 - 15 |     |     |



2.900 r.p.m.

| MODELO / MODEL   | Q<br>m³/h<br>l/min | 0          | 3  | 6   | 12         | 18         | 24         | 30         | 36         | 42         | 48         | 54         | 60         |
|------------------|--------------------|------------|----|-----|------------|------------|------------|------------|------------|------------|------------|------------|------------|
|                  |                    | 0          | 50 | 100 | 200        | 300        | 400        | 500        | 600        | 700        | 800        | 900        | 1000       |
| KDN 40-125 / 115 | H<br>(m)           | 16,8 - 3   |    |     | 13,3 - 3   | 15,6 - 3   | 15 - 3     | 14,3 - 4   | 13,2 - 4   | 12,6 - 4   | 9,8 - 4    |            |            |
| KDN 40-125 / 120 |                    | 18,5 - 3   |    |     | 18 - 3     | 17,5 - 3   | 17 - 4     | 16 - 4     | 15 - 4     | 13,5 - 4   | 11,8 - 5,5 |            |            |
| KDN 40-125 / 125 |                    | 20,4 - 4   |    |     | 20 - 4     | 19,5 - 4   | 19 - 4     | 18 - 4     | 16,7 - 5,5 | 15,3 - 5,5 | 13,5 - 5,5 |            |            |
| KDN 40-125 / 130 |                    | 22 - 4     |    |     | 21,8 - 4   | 21,5 - 4   | 21 - 4     | 20 - 5,5   | 19 - 5,5   | 17,5 - 5,5 | 15,7 - 5,5 | 14 - 7,5   |            |
| KDN 40-125 / 135 |                    | 24,1 - 4   |    |     | 24 - 4     | 23,9 - 4   | 23,4 - 5,5 | 22,5 - 5,5 | 21,5 - 7,5 | 20 - 7,5   | 18,3 - 7,5 | 16,4 - 7,5 |            |
| KDN 40-125 / 142 |                    | 26,8 - 5,5 |    |     | 26,6 - 5,5 | 26,4 - 5,5 | 26 - 5,5   | 25,3 - 7,5 | 24,4 - 7,5 | 23 - 7,5   | 21,4 - 7,5 | 19,4 - 7,5 | 17 - 7,5   |
| KDN 40-160 / 137 |                    | 24 - 4     |    |     |            | 24 - 4     | 23 - 4     | 22 - 5,5   | 20,5 - 5,5 | 18 - 7,5   | 15 - 7,5   |            |            |
| KDN 40-160 / 145 |                    | 27,5 - 5,5 |    |     |            | 27,5 - 5,5 | 27 - 5,5   | 25,9 - 5,5 | 24,2 - 7,5 | 22,1 - 7,5 | 19,5 - 7,5 |            |            |
| KDN 40-160 / 153 |                    | 31 - 7,5   |    |     |            | 31 - 7,5   | 30,5 - 7,5 | 29,5 - 7,5 | 28 - 7,5   | 26,5 - 7,5 | 24 - 10    | 21 - 10    |            |
| KDN 40-160 / 161 |                    | 34,5 - 7,5 |    |     |            | 35 - 7,5   | 34,5 - 7,5 | 33,9 - 7,5 | 32 - 10    | 30,5 - 10  | 28,5 - 10  | 25,8 - 10  | 22,5 - 10  |
| KDN 40-160 / 169 |                    | 38,5 - 7,5 |    |     |            | 39 - 7,5   | 38,5 - 7,5 | 38 - 10    | 37 - 10    | 35 - 10    | 33,5 - 15  | 31 - 15    | 28 - 15    |
| KDN 40-160 / 177 |                    | 42,5 - 10  |    |     |            | 43 - 10    | 42,5 - 10  | 42 - 10    | 41,5 - 15  | 40 - 15    | 38,5 - 15  | 35 - 15    | 33 - 15    |
| KDN 40-200 / 170 |                    | 33,5 - 7,5 |    |     |            | 34,5 - 7,5 | 33,5 - 7,5 | 32 - 7,5   | 30 - 7,5   | 28,5 - 10  | 22,5 - 10  |            |            |
| KDN 40-200 / 180 |                    | 38,5 - 7,5 |    |     |            | 39,5 - 7,5 | 38,5 - 7,5 | 37 - 10    | 35 - 10    | 32,5 - 10  | 29 - 10    | 25 - 10    |            |
| KDN 40-200 / 190 |                    | 43,5 - 10  |    |     |            | 44,5 - 10  | 44 - 10    | 43 - 10    | 41 - 10    | 38 - 15    | 35 - 15    | 31,5 - 15  | 27 - 15    |
| KDN 40-200 / 200 |                    | 48,5 - 10  |    |     |            | 50 - 10    | 49,5 - 10  | 48,5 - 15  | 46,5 - 15  | 44 - 15    | 41,5 - 15  | 38,5 - 15  | 34,5 - 15  |
| KDN 40-200 / 210 |                    | 54 - 15    |    |     |            | 55,5 - 15  | 55,5 - 15  | 54,5 - 15  | 53 - 15    | 51 - 15    | 48,5 - 15  | 46 - 20    | 42,5 - 20  |
| KDN 40-200 / 219 |                    | 60 - 15    |    |     |            | 61 - 15    | 61 - 15    | 60,5 - 15  | 59 - 15    | 57 - 20    | 55 - 20    | 62,5 - 20  | 49,5 - 20  |
| KDN 40-250 / 220 |                    | 63 - 15    |    |     |            | 63 - 15    | 62,5 - 15  | 61 - 15    | 59 - 15    | 57 - 20    | 55 - 20    | 52 - 20    | 48 - 20    |
| KDN 40-250 / 230 |                    | 69,5 - 15  |    |     |            | 69,5 - 15  | 68,5 - 15  | 68 - 15    | 66 - 20    | 63,5 - 20  | 61 - 25    | 58 - 25    | 55 - 25    |
| KDN 40-250 / 240 |                    | 76 - 20    |    |     |            | 76 - 20    | 76 - 20    | 75 - 20    | 73 - 20    | 70,5 - 25  | 68 - 25    | 65 - 25    | 62 - 30    |
| KDN 40-250 / 250 |                    | 83 - 20    |    |     |            | 83 - 20    | 82,5 - 20  | 81,5 - 20  | 80 - 25    | 78 - 25    | 75,5 - 30  | 72,5 - 30  | 69 - 30    |
| KDN 40-250 / 260 |                    | 91 - 25    |    |     |            | 90,5 - 25  | 90 - 25    | 89,5 - 25  | 88,5 - 25  | 86,5 - 30  | 84 - 30    | 81 - 30    | 78 - 40    |
| KDN 50-125 / 115 |                    | 16,8 - 4   |    |     |            |            |            | 16 - 4     | 15,5 - 4   | 15 - 4     | 14,3 - 5,5 | 13,6 - 5,5 | 13 - 5,5   |
| KDN 50-125 / 120 |                    | 18,1 - 5,5 |    |     |            |            |            | 17,5 - 5,5 | 17 - 5,5   | 16,5 - 5,5 | 16 - 5,5   | 15,3 - 7,5 | 14,7 - 7,5 |
| KDN 50-125 / 125 |                    | 19,8 - 5,5 |    |     |            |            |            | 19,4 - 5,5 | 19 - 5,5   | 18,5 - 5,5 | 17,9 - 5,5 | 17,4 - 7,5 | 16,6 - 7,5 |
| KDN 50-125 / 130 |                    | 21,5 - 7,5 |    |     |            |            |            | 21,1 - 7,5 | 20,8 - 7,5 | 20,5 - 7,5 | 19,8 - 7,5 | 19,2 - 7,5 | 18,5 - 7,5 |
| KDN 50-125 / 135 |                    | 23,2 - 7,5 |    |     |            |            |            | 23 - 7,5   | 22,6 - 7,5 | 22,3 - 7,5 | 21,8 - 7,5 | 21,2 - 10  | 20,6 - 10  |
| KDN 50-125 / 139 |                    | 24,7 - 7,5 |    |     |            |            |            | 24,5 - 7,5 | 24,3 - 7,5 | 24 - 7,5   | 23,5 - 7,5 | 23 - 10    | 22,4 - 10  |
| KDN 50-125 / 144 |                    | 25,9 - 10  |    |     |            |            |            | 26,5 - 10  | 26,4 - 10  | 26,1 - 10  | 25,6 - 10  | 25,1 - 10  | 24,5 - 10  |
| KDN 50-160 / 137 |                    | 24 - 7,5   |    |     |            |            |            | 24 - 7,5   | 24 - 7,5   | 23,5 - 7,5 | 23 - 7,5   | 22,5 - 7,5 | 21 - 7,5   |
| KDN 50-160 / 145 |                    | 27,5 - 7,5 |    |     |            |            |            | 27,5 - 7,5 | 27,5 - 7,5 | 27 - 7,5   | 26 - 7,5   | 25,5 - 7,5 | 25 - 10    |
| KDN 50-160 / 153 |                    | 30,5 - 10  |    |     |            |            |            | 31 - 10    | 31 - 10    | 30,5 - 10  | 30 - 10    | 29,5 - 10  | 28,5 - 10  |
| KDN 50-160 / 161 |                    | 32 - 10    |    |     |            |            |            | 34,5 - 10  | 34,5 - 10  | 34 - 10    | 33,5 - 15  | 33,5 - 15  | 32,5 - 15  |
| KDN 50-160 / 169 |                    | 37,5 - 15  |    |     |            |            |            | 38,5 - 15  | 38,5 - 15  | 38 - 15    | 37,5 - 15  | 37,5 - 15  | 36,5 - 15  |
| KDN 50-160 / 177 |                    | 41,5 - 15  |    |     |            |            |            | 42,5 - 15  | 42,5 - 15  | 42 - 15    | 42,8 - 15  | 41,5 - 15  | 41 - 15    |
| KDN 50-200 / 170 |                    | 38 - 10    |    |     |            |            |            | 38 - 10    | 37,5 - 10  | 37 - 10    | 35 - 10    | 34 - 15    | 32 - 15    |
| KDN 50-200 / 180 |                    | 42,5 - 10  |    |     |            |            |            | 43 - 10    | 42,5 - 10  | 41,5 - 15  | 40,5 - 15  | 39,5 - 15  | 38 - 15    |
| KDN 50-200 / 190 |                    | 47 - 15    |    |     |            |            |            | 48 - 15    | 47,5 - 15  | 47 - 15    | 46 - 15    | 44,5 - 15  | 43,5 - 15  |
| KDN 50-200 / 200 |                    | 52,5 - 15  |    |     |            |            |            | 53,5 - 15  | 53 - 15    | 52,5 - 15  | 51,5 - 15  | 50,5 - 20  | 49 - 20    |
| KDN 50-200 / 210 | 58,5 - 15          |            |    |     |            |            | 59 - 15    | 59 - 15    | 58,5 - 15  | 57,5 - 20  | 56,5 - 20  | 55,5 - 20  |            |
| KDN 50-200 / 219 | 64 - 20            |            |    |     |            |            | 65 - 20    | 64,5 - 20  | 64 - 20    | 63,5 - 20  | 62,5 - 20  | 61,5 - 25  |            |
| KDN 50-250 / 220 | 64 - 20            |            |    |     |            |            | 65 - 20    | 64,5 - 20  | 63 - 20    | 62 - 20    | 61 - 20    | 59 - 25    |            |
| KDN 50-250 / 230 | 69 - 20            |            |    |     |            |            | 72 - 20    | 71 - 20    | 70 - 20    | 69 - 25    | 68 - 25    | 66 - 25    |            |
| KDN 50-250 / 240 | 76 - 25            |            |    |     |            |            | 78 - 25    | 78 - 25    | 77 - 25    | 76 - 25    | 74,5 - 30  | 73 - 30    |            |
| KDN 50-250 / 250 | 84 - 25            |            |    |     |            |            | 85,5 - 25  | 85 - 25    | 84,5 - 25  | 83,5 - 30  | 84 - 40    | 80,5 - 40  |            |
| KDN 50-250 / 263 | 92 - 30            |            |    |     |            |            | 94 - 30    | 94 - 30    | 93,5 - 30  | 92,5 - 30  | 91,5 - 40  | 90 - 40    |            |

# KDN

## Tablas de selección rápida / Numerical selection table

| 66   | 72   | 78   | 84   | 90   | 102  | 114  | 120  | 150  | 180  | 210  | 240  | 270  | 300  | 330  | 360  | 390  | 420  |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 1100 | 1200 | 1300 | 1400 | 1500 | 1700 | 1900 | 2000 | 2500 | 3000 | 3500 | 4000 | 4500 | 5000 | 5500 | 6000 | 6500 | 7000 |

2.900 r.p.m.



30 - 15

38 - 20

46 - 20 40 - 20

51 - 25

58,5 - 30

66 - 30

74 - 40

12,2 - 5,5 11,5 - 5,5 10,4 - 5,5 9 - 5,5

14 - 7,5 13,2 - 7,5 12 - 7,5 11,2 - 7,5 10 - 7,5

16 - 7,5 15,1 - 7,5 14 - 7,5 13 - 7,5 11,8 - 10

17,8 - 7,5 17 - 10 16,5 - 10 15,2 - 10 14 - 10

19,9 - 10 19,3 - 10 18,4 - 10 17,5 - 10 16,3 - 10 13,7 - 10

21,6 - 10 20,8 - 10 20 - 10 19,2 - 10 18 - 10 15,5 - 15

24 - 10 23,2 - 10 22,3 - 15 21,5 - 15 20,5 - 15 17,8 - 15 15 - 15

20,3 - 10 19 - 10 18 - 10 16,8 - 10 15 - 10

23,8 - 10 23 - 10 21,5 - 10 20,5 - 15 19 - 15

27,7 - 15 26,5 - 15 25,5 - 15 24,5 - 15 23 - 15

31,8 - 15 31 - 15 29,8 - 15 28,5 - 15 27,5 - 15

36 - 15 35,5 - 15 34,2 - 15 33 - 20 31,5 - 20 29 - 20

40,5 - 20 39,5 - 20 38,8 - 20 38 - 20 36,7 - 20 33,5 - 20

30 - 15 27 - 15 25 - 15

36 - 15 34 - 15 32 - 20 29 - 20

42 - 20 40 - 20 38 - 20 35,5 - 20 33 - 20

47,5 - 20 46 - 20 44,5 - 25 42 - 25 40 - 25

54 - 25 52,5 - 25 51 - 25 49 - 25 46,5 - 30 41,5 - 30

60 - 25 58,5 - 25 57 - 30 55 - 30 53 - 30 48,5 - 40

57,5 - 25 55 - 25 53 - 25 50 - 30 46,5 - 30 36 - 30

64 - 30 62 - 30 60 - 30 57 - 30 54 - 40 45 - 40

71,5 - 30 69 - 40 67 - 40 65 - 40 62 - 40 55 - 40

78,5 - 40 77 - 40 75 - 40 72,5 - 40 70 - 40 64 - 50

88,5 - 40 86,5 - 40 84,5 - 50 82,5 - 50 82 - 50 75 - 50 61 - 50

| MODELO / MODEL         | Q<br>m <sup>3</sup> /h<br>l/min | 0          | 3  | 6   | 12  | 18  | 24  | 30  | 36  | 42  | 48         | 54         | 60         |            |  |
|------------------------|---------------------------------|------------|----|-----|-----|-----|-----|-----|-----|-----|------------|------------|------------|------------|--|
|                        |                                 | 0          | 50 | 100 | 200 | 300 | 400 | 500 | 600 | 700 | 800        | 900        | 1000       |            |  |
| KDN 65-125 / 120 / 110 | H<br>(m)                        | 16 - 7,5   |    |     |     |     |     |     |     |     | 14,4 - 7,5 | 14 - 7,5   | 13,6 - 7,5 |            |  |
| KDN 65-125 / 120       |                                 | 17,8 - 7,5 |    |     |     |     |     |     |     |     |            | 16 - 7,5   | 15,6 - 7,5 | 15,3 - 7,5 |  |
| KDN 65-125 / 125       |                                 | 19,4 - 7,5 |    |     |     |     |     |     |     |     |            | 17,8 - 7,5 | 17,5 - 7,5 | 17,1 - 7,5 |  |
| KDN 65-125 / 130       |                                 | 21 - 7,5   |    |     |     |     |     |     |     |     |            | 19,6 - 7,5 | 19,5 - 7,5 | 19,1 - 7,5 |  |
| KDN 65-125 / 135       |                                 | 22,6 - 10  |    |     |     |     |     |     |     |     |            | 21,8 - 10  | 21,5 - 10  | 21,3 - 10  |  |
| KDN 65-125 / 140       |                                 | 24 - 10    |    |     |     |     |     |     |     |     |            | 23,6 - 10  | 23,5 - 10  | 23,4 - 10  |  |
| KDN 65-125 / 144       |                                 | 25,6 - 15  |    |     |     |     |     |     |     |     |            | 25,6 - 15  | 25,5 - 15  | 25,3 - 15  |  |
| KDN 65-160 / 137       |                                 | 23 - 10    |    |     |     |     |     |     |     |     |            | 22,7 - 10  | 22,5 - 10  | 22 - 10    |  |
| KDN 65-160 / 145       |                                 | 26 - 10    |    |     |     |     |     |     |     |     |            | 26 - 10    | 25,5 - 10  | 25 - 10    |  |
| KDN 65-160 / 153       |                                 | 29 - 15    |    |     |     |     |     |     |     |     |            | 29,5 - 15  | 29 - 15    | 28,7 - 15  |  |
| KDN 65-160 / 161       |                                 | 32,5 - 15  |    |     |     |     |     |     |     |     |            | 33 - 15    | 32,7 - 15  | 32,5 - 15  |  |
| KDN 65-160 / 169       |                                 | 36,5 - 15  |    |     |     |     |     |     |     |     |            | 36,6 - 15  | 36,5 - 15  | 36,4 - 15  |  |
| KDN 65-160 / 177       |                                 | 40 - 20    |    |     |     |     |     |     |     |     |            | 40,5 - 20  | 40,5 - 20  | 40,3 - 20  |  |
| KDN 65-200 / 170       |                                 | 37 - 15    |    |     |     |     |     |     |     |     |            | 38,5 - 15  | 38 - 15    | 37,5 - 15  |  |
| KDN 65-200 / 180       |                                 | 42 - 15    |    |     |     |     |     |     |     |     |            | 43 - 15    | 43 - 15    | 42,5 - 15  |  |
| KDN 65-200 / 190       |                                 | 48 - 20    |    |     |     |     |     |     |     |     |            | 49,5 - 20  | 49 - 20    | 48,5 - 20  |  |
| KDN 65-200 / 200       |                                 | 53 - 20    |    |     |     |     |     |     |     |     |            | 54,5 - 20  | 54,5 - 20  | 54,5 - 20  |  |
| KDN 65-200 / 210       |                                 | 59 - 25    |    |     |     |     |     |     |     |     |            | 60,5 - 25  | 60,5 - 25  | 60 - 25    |  |
| KDN 65-200 / 219       |                                 | 65 - 25    |    |     |     |     |     |     |     |     |            | 66,5 - 25  | 66,5 - 25  | 66 - 25    |  |
| KDN 65-250 / 220       |                                 | 63 - 25    |    |     |     |     |     |     |     |     |            | 63 - 25    | 62,5 - 25  | 62 - 25    |  |
| KDN 65-250 / 230       |                                 | 69,5 - 30  |    |     |     |     |     |     |     |     |            | 69,5 - 30  | 69 - 30    | 68,5 - 30  |  |
| KDN 65-250 / 240       |                                 | 76 - 40    |    |     |     |     |     |     |     |     |            | 76 - 40    | 75,5 - 40  | 75 - 40    |  |
| KDN 65-250 / 250       |                                 | 83 - 40    |    |     |     |     |     |     |     |     |            | 83 - 40    | 82,5 - 40  | 82,5 - 40  |  |
| KDN 65-250 / 263       |                                 | 93 - 40    |    |     |     |     |     |     |     |     |            | 92,5 - 40  | 92 - 40    | 92 - 40    |  |
| KDN 65-315 / 260       |                                 | 94 - 30    |    |     |     |     |     |     |     |     |            |            |            |            |  |
| KDN 65-315 / 275       |                                 | 105 - 30   |    |     |     |     |     |     |     |     |            |            |            |            |  |
| KDN 65-315 / 290       |                                 | 117 - 30   |    |     |     |     |     |     |     |     |            |            |            |            |  |
| KDN 65-315 / 305       |                                 | 129 - 40   |    |     |     |     |     |     |     |     |            |            |            |            |  |
| KDN 65-315 / 320       |                                 | 143 - 50   |    |     |     |     |     |     |     |     |            |            |            |            |  |
| KDN 80-160 / 147 / 127 |                                 | 23 - 15    |    |     |     |     |     |     |     |     |            |            |            |            |  |
| KDN 80-160 / 153 / 136 |                                 | 25,5 - 15  |    |     |     |     |     |     |     |     |            |            |            |            |  |
| KDN 80-160 / 153       |                                 | 29,2 - 20  |    |     |     |     |     |     |     |     |            |            |            |            |  |
| KDN 80-160 / 161       |                                 | 32,8 - 20  |    |     |     |     |     |     |     |     |            |            |            |            |  |
| KDN 80-160 / 169       |                                 | 36,5 - 25  |    |     |     |     |     |     |     |     |            |            |            |            |  |
| KDN 80-160 / 177       |                                 | 40 - 25    |    |     |     |     |     |     |     |     |            |            |            |            |  |
| KDN 80-200 / 170       |                                 | 36,5 - 25  |    |     |     |     |     |     |     |     |            |            |            |            |  |
| KDN 80-200 / 180       |                                 | 41 - 25    |    |     |     |     |     |     |     |     |            |            |            |            |  |
| KDN 80-200 / 190       |                                 | 45,5 - 30  |    |     |     |     |     |     |     |     |            |            |            |            |  |
| KDN 80-200 / 200       |                                 | 51 - 40    |    |     |     |     |     |     |     |     |            |            |            |            |  |
| KDN 80-200 / 210       |                                 | 56 - 40    |    |     |     |     |     |     |     |     |            |            |            |            |  |
| KDN 80-200 / 222       |                                 | 63,5 - 50  |    |     |     |     |     |     |     |     |            |            |            |            |  |
| KDN 80-250 / 220       |                                 | 62 - 50    |    |     |     |     |     |     |     |     |            |            |            |            |  |
| KDN 80-250 / 230       |                                 | 68 - 50    |    |     |     |     |     |     |     |     |            |            |            |            |  |
| KDN 80-250 / 240       |                                 | 75,5 - 60  |    |     |     |     |     |     |     |     |            |            |            |            |  |
| KDN 80-250 / 250       |                                 | 82,5 - 60  |    |     |     |     |     |     |     |     |            |            |            |            |  |
| KDN 80-250 / 260       |                                 | 90 - 75    |    |     |     |     |     |     |     |     |            |            |            |            |  |
| KDN 80-250 / 270       |                                 | 98 - 75    |    |     |     |     |     |     |     |     |            |            |            |            |  |
| KDN 80-315 / 275       |                                 | 104 - 40   |    |     |     |     |     |     |     |     |            |            |            |            |  |
| KDN 80-315 / 290       |                                 | 116 - 40   |    |     |     |     |     |     |     |     |            |            |            |            |  |
| KDN 80-315 / 305       |                                 | 124 - 50   |    |     |     |     |     |     |     |     |            |            |            |            |  |
| KDN 80-315 / 320       | 141 - 60                        |            |    |     |     |     |     |     |     |     |            |            |            |            |  |
| KDN 80-315 / 334       | 153 - 75                        |            |    |     |     |     |     |     |     |     |            |            |            |            |  |



# KDN

## Tablas de selección rápida / Numerical selection table

|  | 66       | 72       | 78       | 84        | 90       | 102       | 114       | 120       | 150       | 180       | 210       | 240      | 270      | 300      | 330  | 360  | 390  | 420  |
|--|----------|----------|----------|-----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|----------|----------|------|------|------|------|
|  | 1100     | 1200     | 1300     | 1400      | 1500     | 1700      | 1900      | 2000      | 2500      | 3000      | 3500      | 4000     | 4500     | 5000     | 5500 | 6000 | 6500 | 7000 |
|  | 13,1-7,5 | 12,8-7,5 | 12,2-7,5 | 11,9-7,5  | 11,4-7,5 | 10,2-7,5  | 8,7-7,5   | 8-7,5     |           |           |           |          |          |          |      |      |      |      |
|  | 14,9-7,5 | 14,4-7,5 | 13,9-7,5 | 13,4-7,5  | 13-7,5   | 11,5-10   | 10,3-10   | 9,4-10    |           |           |           |          |          |          |      |      |      |      |
|  | 16,8-7,5 | 16,4-7,5 | 16-7,5   | 15,4-10   | 15-10    | 13,5-10   | 12,2-10   | 11,4-10   |           |           |           |          |          |          |      |      |      |      |
|  | 18,9-10  | 18,5-10  | 18-10    | 17,5-10   | 17-10    | 15,7-10   | 14,2-10   | 13,2-15   |           |           |           |          |          |          |      |      |      |      |
|  | 21-10    | 20,5-10  | 20,1-10  | 19,6-10   | 19,2-10  | 18-15     | 16,5-15   | 15,6-15   |           |           |           |          |          |          |      |      |      |      |
|  | 23-10    | 22,8-10  | 22,3-15  | 22-15     | 21,4-15  | 20,3-15   | 18,9-15   | 18-15     | 13,8-15   |           |           |          |          |          |      |      |      |      |
|  | 25-15    | 24,6-15  | 24,3-15  | 24-15     | 23,4-15  | 22,5-15   | 21,1-15   | 22,2-15   | 16-15     |           |           |          |          |          |      |      |      |      |
|  | 21,3-10  | 20,5-10  | 19,7-10  | 19-10     | 18-10    | 16-10     |           |           |           |           |           |          |          |          |      |      |      |      |
|  | 24,6-10  | 24-10    | 23,5-15  | 22,7-15   | 22-15    | 20-15     | 17,8-15   | 16,5-15   |           |           |           |          |          |          |      |      |      |      |
|  | 28,5-15  | 28-15    | 27,5-15  | 26,6-15   | 26-15    | 24-15     | 22-15     | 21-15     |           |           |           |          |          |          |      |      |      |      |
|  | 32-15    | 31,7-15  | 31,3-15  | 30,5-15   | 30-15    | 28,5-20   | 26,5-20   | 25,5-20   |           |           |           |          |          |          |      |      |      |      |
|  | 36-15    | 35,7-15  | 35,3-20  | 34,7-20   | 34-20    | 32,7-20   | 31-20     | 30-20     |           |           |           |          |          |          |      |      |      |      |
|  | 40-20    | 39,8-20  | 39,5-20  | 39-20     | 38,5-20  | 37,2-20   | 35,5-25   | 34,7-25   | 28,5-25   |           |           |          |          |          |      |      |      |      |
|  | 36,5-15  | 36-15    | 35-15    | 34-15     | 32,5-15  | 30-20     | 27-20     | 25-20     |           |           |           |          |          |          |      |      |      |      |
|  | 42-15    | 41,5-15  | 41-20    | 40-20     | 39-20    | 36,5-20   | 34-25     | 32-25     |           |           |           |          |          |          |      |      |      |      |
|  | 48-20    | 47,5-20  | 47-20    | 46-20     | 45-25    | 43-25     | 40,5-25   | 39-30     |           |           |           |          |          |          |      |      |      |      |
|  | 54-20    | 53,5-25  | 53-25    | 52,5-25   | 52-25    | 50-30     | 48-30     | 46,5-30   |           |           |           |          |          |          |      |      |      |      |
|  | 60-25    | 59,5-25  | 59-30    | 58,5-30   | 58-30    | 56,5-40   | 54,5-40   | 53,5-40   |           |           |           |          |          |          |      |      |      |      |
|  | 66-30    | 65,5-30  | 65-30    | 65-40     | 64,5-40  | 63-40     | 61-40     | 60-40     | 52,5-50   |           |           |          |          |          |      |      |      |      |
|  | 61-30    | 60-30    | 59,5-30  | 58-30     | 57-30    | 54-40     | 50,5-40   | 48-40     |           |           |           |          |          |          |      |      |      |      |
|  | 68-30    | 67-40    | 66-40    | 65-40     | 64-40    | 63-40     | 58,5-40   | 56,5-50   |           |           |           |          |          |          |      |      |      |      |
|  | 75-40    | 74-40    | 73-40    | 72-40     | 71-40    | 69-50     | 66-50     | 64-50     |           |           |           |          |          |          |      |      |      |      |
|  | 82-40    | 81,5-40  | 81-40    | 80-50     | 79-50    | 76,5-50   | 73,5-50   | 72-60     | 60-60     |           |           |          |          |          |      |      |      |      |
|  | 91,5-50  | 91,5-50  | 91-50    | 90-50     | 89,5-50  | 87,5-60   | 85-60     | 83-60     | 72,5-75   |           |           |          |          |          |      |      |      |      |
|  |          | 92-40    | 91-50    | 90-50     | 88-50    | 87-50     | 83-60     | 80-60     | 66-60     |           |           |          |          |          |      |      |      |      |
|  |          | 104-50   | 103-50   | 102-50    | 101-60   | 99-60     | 96-60     | 95-60     | 83-75     |           |           |          |          |          |      |      |      |      |
|  |          | 115-60   | 115-60   | 114,5-60  | 114-60   | 112-60    | 109,5-75  | 109-75    | 99,5-100  | 86-100    |           |          |          |          |      |      |      |      |
|  |          | 128-75   | 128-75   | 127,5-75  | 127-75   | 126-100   | 124-100   | 123-100   | 116-100   | 103,5-125 | 88-125    |          |          |          |      |      |      |      |
|  |          | 141-75   | 141-100  | 140,5-100 | 140-100  | 139,5-100 | 138-100   | 137-100   | 131,5-125 | 122,5-125 | 109-150   |          |          |          |      |      |      |      |
|  |          |          |          |           | 21,5-15  | 20,7-15   | 20-15     | 19,5-15   | 17-15     | 14,5-20   | 11,8-20   | 8,8-20   |          |          |      |      |      |      |
|  |          |          |          |           | 24,5-15  | 23,8-15   | 23-15     | 22,5-20   | 20,2-20   | 17,5-20   | 15-20     | 11,8-20  |          |          |      |      |      |      |
|  |          |          |          |           | 28-20    | 27,3-20   | 26,5-20   | 26-20     | 23,5-20   | 20,7-25   | 16,5-25   | 14,5-25  |          |          |      |      |      |      |
|  |          |          |          |           | 32-20    | 31,5-20   | 30,5-20   | 30-25     | 27,8-25   | 25-25     | 21,5-30   | 18,5-30  |          |          |      |      |      |      |
|  |          |          |          |           | 35,7-25  | 35,2-25   | 34,5-25   | 34,2-25   | 32-25     | 29,5-30   | 26,5-30   | 22,6-40  | 18,5-40  |          |      |      |      |      |
|  |          |          |          |           | 39,5-25  | 39,2-25   | 38,7-30   | 38,5-30   | 37-30     | 34,8-40   | 31,8-40   | 27,8-40  | 23-40    |          |      |      |      |      |
|  |          |          |          |           | 36-25    | 35,5-25   | 34,5-25   | 34-25     | 31-30     | 27-30     | 21,5-30   |          |          |          |      |      |      |      |
|  |          |          |          |           | 41-25    | 40,5-25   | 40-25     | 39,5-30   | 37-40     | 33-40     | 27,5-40   |          |          |          |      |      |      |      |
|  |          |          |          |           | 46,5-30  | 46-30     | 45,5-40   | 45-40     | 42-40     | 39-40     | 34-50     |          |          |          |      |      |      |      |
|  |          |          |          |           | 52-40    | 51,5-40   | 51,2-40   | 51-40     | 49-50     | 46,5-50   | 41-50     | 35-60    |          |          |      |      |      |      |
|  |          |          |          |           | 58-40    | 57,5-40   | 57,2-40   | 57-50     | 55-50     | 52-60     | 48-60     | 43-60    |          |          |      |      |      |      |
|  |          |          |          |           | 65-50    | 65-50     | 64,5-50   | 64-50     | 63-60     | 60-60     | 56,5-60   | 51,5-75  | 45-75    |          |      |      |      |      |
|  |          |          |          |           | 65,5-50  | 65-50     | 64-50     | 63-50     | 60-60     | 55,5-60   | 49-60     |          |          |          |      |      |      |      |
|  |          |          |          |           | 72-50    | 71,5-50   | 71-50     | 70-60     | 67-60     | 63-75     | 57-75     | 50-75    |          |          |      |      |      |      |
|  |          |          |          |           | 79-60    | 78-60     | 78-60     | 77-60     | 74,5-75   | 71-75     | 65,5-75   | 58,5-100 |          |          |      |      |      |      |
|  |          |          |          |           | 85-60    | 85-60     | 85-75     | 84,5-75   | 82-75     | 78,5-100  | 74-100    | 67,5-100 | 60,5-100 |          |      |      |      |      |
|  |          |          |          |           | 92,5-75  | 92,5-75   | 92-75     | 92-75     | 89,5-100  | 86,5-100  | 82-100    | 77-100   | 70-125   | 61,5-125 |      |      |      |      |
|  |          |          |          |           | 99-75    | 99-75     | 98,5-75   | 98,5-100  | 97-100    | 94-100    | 89-100    | 84-125   | 77-125   | 69-125   |      |      |      |      |
|  |          |          |          |           | 105-75   | 104-75    | 104-75    | 101-100   | 96-100    | 88-100    | 77-100    |          |          |          |      |      |      |      |
|  |          |          |          |           | 117-75   | 116,5-100 | 116-100   | 114-100   | 111-100   | 104-125   | 96,5-125  | 85-125   |          |          |      |      |      |      |
|  |          |          |          |           | 130-100  | 129,5-100 | 129,5-100 | 127,5-125 | 124,5-125 | 120,5-125 | 113,5-150 |          |          |          |      |      |      |      |
|  |          |          |          |           | 144-100  | 143,5-100 | 143,5-125 | 142-125   | 139-150   |           |           |          |          |          |      |      |      |      |
|  |          |          |          |           | 155-125  | 156-125   | 156-125   | 155,5-150 |           |           |           |          |          |          |      |      |      |      |

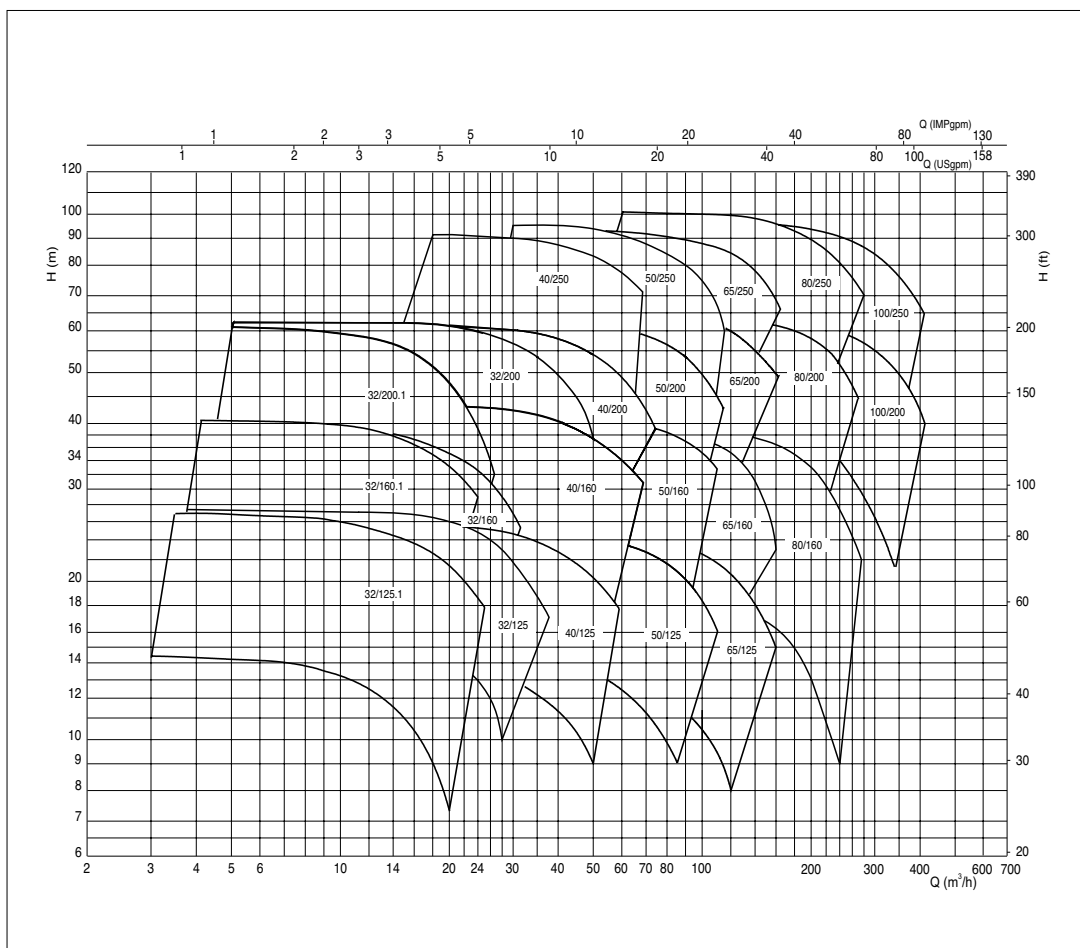
2.900 r.p.m.



KDN Normalizadas a 2.900 r.p.m. / Standardized to 2.900 r.p.m.

| MODELO            | Q<br>m³/h<br>l/min | 0         | 120  | 150        | 180        | 210        | 240      | 270        | 300        | 330        | 360        | 420      |
|-------------------|--------------------|-----------|------|------------|------------|------------|----------|------------|------------|------------|------------|----------|
|                   |                    | 0         | 2000 | 2500       | 3000       | 3500       | 4000     | 4500       | 5000       | 5500       | 6000       | 6000     |
| KDN 100-200 / 180 | H<br>(m)           | 40 - 40   |      | 40 - 40    | 38 - 40    | 36 - 40    | 33 - 40  | 30,5 - 50  | 28 - 50    | 25 - 50    |            |          |
| KDN 100-200 / 190 |                    | 46,5 - 50 |      | 45 - 50    | 44 - 50    | 42 - 50    | 39 - 50  | 37 - 50    | 34,5 - 60  | 31 - 60    | 28 - 60    |          |
| KDN 100-200 / 200 |                    | 51,5 - 50 |      | 51 - 50    | 50 - 50    | 48,5 - 60  | 46 - 60  | 44 - 60    | 42 - 75    | 39 - 75    | 35 - 75    |          |
| KDN 100-200 / 210 |                    | 57,5 - 60 |      | 57 - 60    | 56 - 60    | 55 - 75    | 53 - 75  | 51 - 75    | 49 - 75    | 46 - 100   | 43 - 100   | 36 - 100 |
| KDN 100-200 / 219 |                    | 64 - 75   |      | 62,5 - 75  | 62 - 75    | 61 - 75    | 60 - 75  | 58 - 100   | 56 - 100   | 53 - 100   | 50 - 100   | 43 - 100 |
| KDN 100-250 / 220 |                    | 61 - 60   |      | 61,5 - 60  | 59,5 - 60  | 57 - 75    | 54 - 75  | 50,5 - 100 | 46,5 - 100 | 42 - 100   |            |          |
| KDN 100-250 / 230 |                    | 67 - 75   |      | 68 - 75    | 66,5 - 75  | 64 - 75    | 61 - 100 | 58 - 100   | 54 - 100   | 49 - 100   | 44 - 100   |          |
| KDN 100-250 / 240 |                    | 73 - 75   |      | 76 - 75    | 74 - 75    | 71,5 - 100 | 69 - 100 | 66 - 100   | 63 - 100   | 58,5 - 125 | 53 - 125   |          |
| KDN 100-250 / 250 |                    | 80 - 100  |      | 83 - 100   | 81,5 - 100 | 79,5 - 100 | 77 - 100 | 74 - 125   | 71 - 125   | 67 - 125   | 62,5 - 150 |          |
| KDN 100-250 / 260 |                    | 88 - 100  |      | 90,5 - 100 | 89,5 - 100 | 88 - 100   | 86 - 125 | 83 - 125   | 79,5 - 125 | 76 - 150   | 71,5 - 150 |          |

N.º negro: **Altura m.c.a.** - N.º verde: **Potencia Nominal en CV**  
 N.º black: **Height w.c.m.** - N.º Green: **Nominal Power HP**



# KDN

Normalizadas a 1.450 r.p.m. / Standardized to 1.450 r.p.m.

| MODELO             | Q<br>m³/h<br>/min | 0         | 3         | 6         | 12        | 18        | 24       | 30      | 36  | 42  | 48  | 54  |  |
|--------------------|-------------------|-----------|-----------|-----------|-----------|-----------|----------|---------|-----|-----|-----|-----|--|
|                    |                   | 0         | 50        | 100       | 200       | 300       | 400      | 500     | 500 | 700 | 800 | 900 |  |
| KDN 32-125.1 / 105 | H<br>(m)          | 3,4-0,5   | 3,4-0,5   | 3,1-0,5   |           |           |          |         |     |     |     |     |  |
| KDN 32-125.1 / 110 |                   | 3,9-0,5   | 3,8-0,5   | 3,5-0,5   |           |           |          |         |     |     |     |     |  |
| KDN 32-125.1 / 115 |                   | 4,25-0,5  | 4,2-0,5   | 3,9-0,5   |           |           |          |         |     |     |     |     |  |
| KDN 32-125.1 / 120 |                   | 4,7-0,5   | 4,6-0,5   | 4,3-0,5   |           |           |          |         |     |     |     |     |  |
| KDN 32-125.1 / 125 |                   | 5,1-0,5   | 5,1-0,5   | 4,8-0,5   |           |           |          |         |     |     |     |     |  |
| KDN 32-125.1 / 130 |                   | 5,6-0,5   | 5,6-0,5   | 5,3-0,5   |           |           |          |         |     |     |     |     |  |
| KDN 32-125.1 / 135 |                   | 6,1-0,5   | 6-0,5     | 5,8-0,5   | 4,4-0,5   |           |          |         |     |     |     |     |  |
| KDN 32-125.1 / 140 |                   | 6,6-0,5   | 6,6-0,5   | 6,4-0,5   | 5,1-0,75  |           |          |         |     |     |     |     |  |
| KDN 32-125 / 115   |                   | 4,3-0,5   |           | 4,1-0,5   | 3,2-0,5   |           |          |         |     |     |     |     |  |
| KDN 32-125 / 120   |                   | 4,75-0,5  |           | 4,6-0,5   | 3,75-0,5  |           |          |         |     |     |     |     |  |
| KDN 32-125 / 125   |                   | 5,2-0,5   |           | 5,05-0,5  | 4,2-0,5   |           |          |         |     |     |     |     |  |
| KDN 32-125 / 130   |                   | 5,7-0,5   |           | 5,5-0,5   | 4,8-0,5   |           |          |         |     |     |     |     |  |
| KDN 32-125 / 135   |                   | 6,2-0,5   |           | 6-0,5     | 5,3-0,75  | 3,65-0,75 |          |         |     |     |     |     |  |
| KDN 32-125 / 142   |                   | 6,9-0,5   |           | 6,75-0,5  | 6,15-0,75 | 4,5-0,75  |          |         |     |     |     |     |  |
| KDN 32-160.1 / 137 |                   | 6-0,5     | 5,6-0,5   | 4,6-0,5   |           |           |          |         |     |     |     |     |  |
| KDN 32-160.1 / 145 |                   | 6,7-0,5   | 6,4-0,5   | 5,5-0,5   |           |           |          |         |     |     |     |     |  |
| KDN 32-160.1 / 153 |                   | 7,5-0,5   | 7,1-0,5   | 6,4-0,5   |           |           |          |         |     |     |     |     |  |
| KDN 32-160.1 / 161 |                   | 8,2-0,5   | 7,9-0,5   | 7,3-0,5   |           |           |          |         |     |     |     |     |  |
| KDN 32-160.1 / 169 |                   | 9,1-0,5   | 8,7-0,5   | 8,1-0,75  | 5,5-0,75  |           |          |         |     |     |     |     |  |
| KDN 32-160.1 / 177 |                   | 10,2-0,5  | 9,8-0,5   | 9,2-0,75  | 6,6-1     |           |          |         |     |     |     |     |  |
| KDN 32-160 / 137   |                   | 5,9-0,5   |           | 5,6-0,5   | 4,4-0,5   |           |          |         |     |     |     |     |  |
| KDN 32-160 / 145   |                   | 6,7-0,5   |           | 6,5-0,5   | 5,3-0,75  |           |          |         |     |     |     |     |  |
| KDN 32-160 / 153   |                   | 7,6-0,5   |           | 7,4-0,5   | 6,25-0,75 |           |          |         |     |     |     |     |  |
| KDN 32-160 / 161   |                   | 8,5-0,75  |           | 8,25-0,75 | 7,25-1    | 8,7-1     |          |         |     |     |     |     |  |
| KDN 32-160 / 169   |                   | 9,5-0,75  |           | 9,3-0,75  | 8,4-1     | 6,6-1,5   |          |         |     |     |     |     |  |
| KDN 32-160 / 177   |                   | 10,5-1    |           | 10,4-1    | 9,6-1,5   | 7,8-1,5   |          |         |     |     |     |     |  |
| KDN 32-200.1 / 170 |                   | 9,4-0,5   | 8,8-0,5   | 7,6-0,5   |           |           |          |         |     |     |     |     |  |
| KDN 32-200.1 / 180 |                   | 10,5-0,5  | 10-0,5    | 9-0,75    |           |           |          |         |     |     |     |     |  |
| KDN 32-200.1 / 190 |                   | 11,6-0,75 | 11,2-0,75 | 10,3-0,75 |           |           |          |         |     |     |     |     |  |
| KDN 32-200.1 / 200 |                   | 12,9-0,75 | 12,5-0,75 | 11,6-1    | 7,6-1,5   |           |          |         |     |     |     |     |  |
| KDN 32-200.1 / 207 |                   | 13,9-0,75 | 13,5-0,75 | 12,6-1    | 8,8-1,5   |           |          |         |     |     |     |     |  |
| KDN 32-200 / 170   |                   | 8,6-0,75  |           | 8,2-0,75  | 6,7-0,75  |           |          |         |     |     |     |     |  |
| KDN 32-200 / 180   |                   | 9,9-0,75  |           | 9,6-0,75  | 8,2-1     |           |          |         |     |     |     |     |  |
| KDN 32-200 / 190   |                   | 11,2-0,75 |           | 10,9-0,75 | 9,7-1     | 7-1,5     |          |         |     |     |     |     |  |
| KDN 32-200 / 200   |                   | 12,6-1    |           | 12,3-1    | 11,1-1,5  | 8,7-1,5   |          |         |     |     |     |     |  |
| KDN 32-200 / 210   |                   | 14,3-1    |           | 14-1      | 13,1-1,5  | 10,7-2    |          |         |     |     |     |     |  |
| KDN 32-200 / 219   |                   | 15,7-1,5  |           | 15,4-1,5  | 14,8-2    | 13-2      | 9,8-3    |         |     |     |     |     |  |
| KDN 40-125 / 115   |                   | 4,2-0,5   |           | 4,1-0,5   | 3,8-0,5   | 3,2-0,5   | 2,4-0,5  |         |     |     |     |     |  |
| KDN 40-125 / 120   |                   | 4,6-0,5   |           | 4,5-0,5   | 4,2-0,5   | 3,7-0,75  | 2,9-0,75 |         |     |     |     |     |  |
| KDN 40-125 / 125   |                   | 5,1-0,5   |           | 4,9-0,5   | 4,7-0,75  | 4,1-0,75  | 3,3-0,75 |         |     |     |     |     |  |
| KDN 40-125 / 130   |                   | 5,5-0,5   |           | 5,4-0,5   | 5,2-0,75  | 4,7-0,75  | 3,9-0,75 |         |     |     |     |     |  |
| KDN 40-125 / 135   |                   | 6-0,5     |           | 5,9-0,5   | 5,8-0,75  | 5,3-0,75  | 4,6-1    |         |     |     |     |     |  |
| KDN 40-125 / 142   |                   | 6,7-0,75  |           | 6,6-0,75  | 6,5-0,75  | 6-1       | 5,3-1    | 4,1-1,5 |     |     |     |     |  |
| KDN 40-160 / 137   |                   | 5,9-0,5   |           | 6-0,5     | 5,7-0,75  | 5-0,75    | 3,7-0,75 |         |     |     |     |     |  |
| KDN 40-160 / 145   |                   | 6,7-0,5   |           | 6,8-0,5   | 6,6-0,75  | 6-1       | 4,8-1    |         |     |     |     |     |  |
| KDN 40-160 / 153   |                   | 7,6-0,75  |           | 7,8-0,75  | 7,6-1     | 7-1,5     | 6-1,5    |         |     |     |     |     |  |
| KDN 40-160 / 161   |                   | 8,5-1     |           | 8,7-1     | 8,6-1,5   | 8-1,5     | 7,1-1,5  | 5,6-1,5 |     |     |     |     |  |
| KDN 40-160 / 169   |                   | 9,6-1     |           | 9,7-1     | 9,6-1,5   | 9,1-1,5   | 8,3-1,5  | 7-1,5   |     |     |     |     |  |
| KDN 40-160 / 177   |                   | 10,7-1    |           | 10,7-1    | 10,6-1,5  | 10,2-1,5  | 9,5-2    | 8,3-2   |     |     |     |     |  |
| KDN 40-200 / 170   |                   | 8,4-0,75  |           | 8,75-0,75 | 8,4-1     | 7,4-1,5   | 5,7-1,5  |         |     |     |     |     |  |
| KDN 40-200 / 180   |                   | 9,7-0,75  |           | 10-0,75   | 9,7-1     | 8,8-1,5   | 7,2-1,5  |         |     |     |     |     |  |
| KDN 40-200 / 190   |                   | 10,9-1    |           | 11,1-1    | 11-1,5    | 10,2-1,5  | 8,8-2    | 6,8-2   |     |     |     |     |  |
| KDN 40-200 / 200   |                   | 12,2-1    |           | 12,5-1    | 12,4-1,5  | 11,7-2    | 10,4-2   | 8,6-2   |     |     |     |     |  |
| KDN 40-200 / 210   |                   | 13,6-1,5  |           | 13,9-1,5  | 13,9-1,5  | 13,2-2    | 12,1-3   | 10,6-3  |     |     |     |     |  |
| KDN 40-200 / 219   | 15-1,5            |           | 15,2-1,5  | 15,2-2    | 14,7-3    | 13,8-3    | 12,4-3   | 10,4-3  |     |     |     |     |  |
| KDN 40-250 / 220   | 15,8-2            |           |           | 15,6-2    | 14,8-3    | 13,6-3    | 12-3     |         |     |     |     |     |  |
| KDN 40-250 / 230   | 17,4-2            |           |           | 17,2-2    | 16,5-3    | 15,3-3    | 13,7-4   |         |     |     |     |     |  |
| KDN 40-250 / 240   | 19-3              |           |           | 19-3      | 18,2-3    | 17-4      | 15,5-4   |         |     |     |     |     |  |
| KDN 40-250 / 250   | 20,7-3            |           |           | 20,6-3    | 20-4      | 18,9-4    | 17,5-5,5 |         |     |     |     |     |  |
| KDN 40-250 / 260   | 22,7-3            |           |           | 22,6-3    | 22,1-4    | 21-5,5    | 19,5-5,5 |         |     |     |     |     |  |

1.450 r.p.m.



| MODELO                 | Q<br>m³/h<br>/min | 0         | 3  | 6   | 12       | 18        | 24       | 30       | 36       | 42       | 48       | 54       | 60       |  |
|------------------------|-------------------|-----------|----|-----|----------|-----------|----------|----------|----------|----------|----------|----------|----------|--|
|                        |                   | 0         | 50 | 100 | 200      | 300       | 400      | 500      | 600      | 700      | 800      | 900      | 1000     |  |
| KDN 50-125 / 115       |                   | 4,2-0,5   |    |     | 4,1-0,5  | 3,9-0,5   | 3,6-0,75 | 3,3-0,75 | 2,9-0,75 | 2,3-0,75 |          |          |          |  |
| KDN 50-125 / 120       |                   | 4,6-0,5   |    |     | 4,4-0,5  | 4,3-0,75  | 4-0,75   | 3,7-1    | 3,3-1    | 2,8-1    |          |          |          |  |
| KDN 50-125 / 125       |                   | 5-0,75    |    |     | 4,9-0,75 | 4,7-0,75  | 4,5-0,75 | 4,2-1    | 4,2-1    | 3,7-1    | 3,3-1,5  |          |          |  |
| KDN 50-125 / 130       |                   | 5,6-0,75  |    |     | 5,4-0,75 | 5,2-1     | 5-1      | 4,7-1,5  | 4,2-1,5  | 3,8-1,5  | 3,2-1,5  |          |          |  |
| KDN 50-125 / 135       |                   | 6-1       |    |     | 5,8-1    | 5,7-1     | 5,5-1,5  | 5,2-1,5  | 4,8-1,5  | 4,3-1,5  | 3,8-1,5  |          |          |  |
| KDN 50-125 / 139       |                   | 6,3-1     |    |     | 6,9-1    | 6,1-1,5   | 5,9-1,5  | 5,6-1,5  | 5,2-1,5  | 4,8-1,5  | 4,2-1,5  |          |          |  |
| KDN 50-125 / 144       |                   | 6,7-1     |    |     | 6,7-1    | 6,6-1,5   | 6,4-1,5  | 6,2-1,5  | 5,8-1,5  | 5,3-1,5  | 4,8-1,5  | 4,1-1,5  |          |  |
| KDN 50-160 / 137       |                   | 6,05-0,75 |    |     | 6,1-0,75 | 5,95-0,75 | 5,7-1    | 5,3-1    | 4,8-1,5  | 4,2-1,5  |          |          |          |  |
| KDN 50-160 / 145       |                   | 6,8-0,75  |    |     | 6,9-0,75 | 6,85-1    | 6,6-1    | 6,2-1,5  | 5,8-1,5  | 5,1-1,5  |          |          |          |  |
| KDN 50-160 / 153       |                   | 7,6-1     |    |     | 7,8-1    | 7,75-1,5  | 7,5-1,5  | 7,2-1,5  | 6,7-2    | 6,2-2    |          |          |          |  |
| KDN 50-160 / 161       |                   | 8,4-1     |    |     | 8,6-1    | 8,65-1,5  | 8,45-1,5 | 8,2-2    | 7,7-2    | 7,2-2    |          |          |          |  |
| KDN 50-160 / 169       |                   | 9,4-1,5   |    |     | 9,6-1,5  | 9,6-2     | 9,45-2   | 9,2-2    | 8,8-3    | 8,3-3    |          |          |          |  |
| KDN 50-160 / 177       |                   | 10,4-1,5  |    |     | 10,5-1,5 | 10,6-2    | 10,5-2   | 10,2-3   | 9,95-3   | 9,4-3    |          |          |          |  |
| KDN 50-200 / 170       |                   | 9,5-1,5   |    |     | 9,6-1,5  | 9,4-1,5   | 8,8-1,5  | 8-2      | 6,85-2   |          |          |          |          |  |
| KDN 50-200 / 180       |                   | 10,6-1,5  |    |     | 10,8-1,5 | 10,6-1,5  | 10,2-2   | 9,5-3    | 8,6-3    | 7,3-3    |          |          |          |  |
| KDN 50-200 / 190       |                   | 11,8-1,5  |    |     | 12-1,5   | 11,9-2    | 11,5-3   | 10,8-3   | 10,1-3   | 8,9-3    |          |          |          |  |
| KDN 50-200 / 200       |                   | 13,1-2    |    |     | 13,4-2   | 13,3-3    | 12,9-3   | 12,3-3   | 11,6-4   | 10,6-4   | 9,4-4    |          |          |  |
| KDN 50-200 / 210       |                   | 14,6-2    |    |     | 14,8-2   | 14,8-3    | 14,5-3   | 13,9-4   | 13,2-4   | 12,2-4   | 11-4     |          |          |  |
| KDN 50-200 / 219       |                   | 16-3      |    |     | 16,2-3   | 16,2-3    | 15,9-3   | 15,4-4   | 14,2-4   | 13,8-4   | 12,7-5,5 | 11,4-5,5 |          |  |
| KDN 50-250 / 220       |                   | 16-3      |    |     | 16,3-3   | 16,1-3    | 15,5-3   | 14,9-4   | 13,8-4   | 12,4-4   | 10,5-4   |          |          |  |
| KDN 50-250 / 230       |                   | 17,4-3    |    |     | 17,9-3   | 17,8-3    | 17,2-4   | 16,5-4   | 15,5-4   | 14,2-5,5 | 12,6-5,5 | 10,3-5,5 |          |  |
| KDN 50-250 / 240       |                   | 19-3      |    |     | 19,5-3   | 19,5-4    | 19-4     | 18,2-5,5 | 17,4-5,5 | 16,2-5,5 | 14,7-7,5 | 12,4-7,5 |          |  |
| KDN 50-250 / 250       |                   | 20,8-4    |    |     | 21,3-4   | 21,3-4    | 20,9-4   | 20,1-5,5 | 19,5-5,5 | 18,1-7,5 | 17-7,5   | 14,8-7,5 |          |  |
| KDN 50-250 / 263       |                   | 23-4      |    |     | 23,5-4   | 23,5-4    | 23,2-5,5 | 22,5-5,5 | 21,7-7,5 | 20,6-7,5 | 19,4-7,5 | 17,5-7,5 |          |  |
| KDN 65-125 / 120 / 110 |                   | 3,75-0,75 |    |     |          |           | 3,5-0,75 | 3,3-0,75 | 3,2-1    | 2,9-1    | 2,7-1    | 2,3-1    | 1,9-1    |  |
| KDN 65-125 / 120       |                   | 4,25-1    |    |     |          |           | 3,9-1    | 3,8-1    | 3,6-1    | 3,3-1    | 3,1-1,5  | 2,7-1,5  | 2,3-1,5  |  |
| KDN 65-125 / 125       |                   | 4,7-1     |    |     |          |           | 4,4-1    | 4,25-1   | 4,1-1,5  | 3,8-1,5  | 3,6-1,5  | 3,25-1,5 | 2,8-1,5  |  |
| KDN 65-125 / 130       |                   | 5,1-1     |    |     |          |           | 4,9-1    | 4,75-1,5 | 4,6-1,5  | 4,3-1,5  | 4,1-1,5  | 3,8-1,5  | 3,3-1,5  |  |
| KDN 65-125 / 135       |                   | 5,6-1,5   |    |     |          |           | 5,4-1,5  | 5,3-1,5  | 5,2-1,5  | 4,9-1,5  | 4,7-2    | 4,3-2    | 3,9-2    |  |
| KDN 65-125 / 140       |                   | 6-1,5     |    |     |          |           | 5,9-1,5  | 5,8-1,5  | 5,7-1,5  | 5,5-1,5  | 5,2-2    | 4,9-2    | 4,5-2    |  |
| KDN 65-125 / 144       |                   | 6,5-1,5   |    |     |          |           | 6,35-1,5 | 6,25-1,5 | 6,2-2    | 5,9-2    | 5,7-2    | 5,4-2    | 5-2      |  |
| KDN 65-160 / 137       |                   | 5,8-1     |    |     |          |           | 5,7-1    | 5,4-1    | 5,2-1,5  | 4,75-1,5 | 4,3-1,5  | 3,7-1,5  |          |  |
| KDN 65-160 / 145       |                   | 6,5-1,5   |    |     |          |           | 6,5-1,5  | 6,3-1,5  | 6-1,5    | 5,7-1,5  | 5,3-2    | 4,75-2   | 4,1-2    |  |
| KDN 65-160 / 153       |                   | 7,3-1,5   |    |     |          |           | 7,4-1,5  | 7,2-1,5  | 6,9-1,5  | 6,7-2    | 6,3-2    | 5,8-2    | 5,2-2    |  |
| KDN 65-160 / 161       |                   | 8,2-2     |    |     |          |           | 8,25-2   | 8,15-2   | 7,9-2    | 7,7-2    | 7,3-3    | 6,85-3   | 6,3-3    |  |
| KDN 65-160 / 169       |                   | 9,1-2     |    |     |          |           | 9,2-2    | 9,1-2    | 8,9-3    | 8,7-3    | 8,4-3    | 8-3      | 7,6-3    |  |
| KDN 65-160 / 177       |                   | 10-3      |    |     |          |           | 10,2-3   | 10,1-3   | 9,9-3    | 9,7-3    | 9,45-3   | 9,1-3    | 8,7-4    |  |
| KDN 65-200 / 170       |                   | 9,4-2     |    |     |          | 9,7-2     | 9,6-2    | 9,4-2    | 9-3      | 8,5-3    | 7,9-3    | 7,1-3    | 6,5-3    |  |
| KDN 65-200 / 180       |                   | 10,5-2    |    |     |          | 10,9-2    | 10,4-2   | 10,6-3   | 10,4-3   | 10-3     | 9,5-4    | 8,8-4    | 8,1-4    |  |
| KDN 65-200 / 190       |                   | 12,1-3    |    |     |          | 12,3-3    | 12,4-3   | 12,2-3   | 11,9-4   | 11,6-4   | 11,1-4   | 10,5-4   | 9,8-4    |  |
| KDN 65-200 / 200       |                   | 13,4-3    |    |     |          | 13,6-3    | 13,7-3   | 13,7-4   | 13,5-4   | 13,2-4   | 12,8-4   | 12,3-5,5 | 11,6-5,5 |  |
| KDN 65-200 / 210       |                   | 14,8-4    |    |     |          | 15-4      | 15,1-4   | 15-4     | 14,9-4   | 14,7-5,5 | 14,3-5,5 | 13,8-5,5 | 13,4-5,5 |  |
| KDN 65-200 / 219       |                   | 16,3-4    |    |     |          | 16,5-4    | 16,6-4   | 16,5-4   | 16,4-4   | 16,2-5,5 | 16-5,5   | 15,6-5,5 | 15-7,5   |  |
| KDN 65-250 / 220       |                   | 15,8-4    |    |     |          | 15,8-4    | 15,5-4   | 15,1-4   | 14,5-5,5 | 14-5,5   | 13,2-5,5 | 12-5,5   |          |  |
| KDN 65-250 / 230       |                   | 17,4-4    |    |     |          | 17,4-4    | 17,2-4   | 16,8-5,5 | 16,3-5,5 | 15,7-5,5 | 15-7,5   | 14,1-7,5 |          |  |
| KDN 65-250 / 240       |                   | 19-5,5    |    |     |          | 19-5,5    | 18,9-5,5 | 18,5-5,5 | 18,1-7,5 | 17,5-7,5 | 16,8-7,5 | 16-7,5   |          |  |
| KDN 65-250 / 250       |                   | 20,7-5,5  |    |     |          | 20,7-5,5  | 20,6-5,5 | 20,4-7,5 | 20-7,5   | 19,5-7,5 | 18,8-7,5 | 18-7,5   |          |  |
| KDN 65-250 / 263       |                   | 23,2-7,5  |    |     |          | 23,2-7,5  | 23-7,5   | 22,9-7,5 | 22,5-7,5 | 22,2-7,5 | 21,6-7,5 | 20,8-10  |          |  |
| KDN 65-315 / 260       |                   | 22,2-7,5  |    |     |          | 22,2-7,5  | 22,1-7,5 | 22-7,5   | 21,5-7,5 | 21-7,5   | 21-10    | 20,5-10  | 20-10    |  |
| KDN 65-315 / 275       |                   | 25,1-7,5  |    |     |          | 25,1-7,5  | 25-7,5   | 24,8-7,5 | 24,6-10  | 24,1-10  | 23,5-10  | 23-10    |          |  |
| KDN 65-315 / 290       |                   | 28,1-7,5  |    |     |          | 28,1-7,5  | 28,1-7,5 | 28-10    | 27,8-10  | 27,3-10  | 27-10    | 26,5-15  |          |  |
| KDN 65-315 / 305       |                   | 31,8-10   |    |     |          | 31,8-10   | 31,8-10  | 31,7-10  | 31,5-10  | 31,2-15  | 30,8-15  | 30,4-15  |          |  |
| KDN 65-315 / 320       |                   | 35,7-10   |    |     |          | 35,7-10   | 35,3-10  | 35,2-15  | 35,1-15  | 35-15    | 34,8-15  | 34,5-15  |          |  |

# KDN

## Tablas de selección rápida / Numerical selection table

| 66   | 72   | 78   | 84   | 90   | 102  | 114  | 120  | 150  | 180  | 210  | 240  | 270  | 300  | 330  | 360  | 390  | 420  |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 1100 | 1200 | 1300 | 1400 | 1500 | 1700 | 1900 | 2000 | 2500 | 3000 | 3500 | 4000 | 4500 | 5000 | 5500 | 6000 | 6500 | 7000 |

1.450 r.p.m.



|            |            |            |           |           |           |           |  |  |  |  |  |  |  |  |  |  |  |
|------------|------------|------------|-----------|-----------|-----------|-----------|--|--|--|--|--|--|--|--|--|--|--|
| 2,8 - 2    |            |            |           |           |           |           |  |  |  |  |  |  |  |  |  |  |  |
| 3,5 - 2    | 3 - 2      |            |           |           |           |           |  |  |  |  |  |  |  |  |  |  |  |
| 4,1 - 2    | 3,6 - 2    |            |           |           |           |           |  |  |  |  |  |  |  |  |  |  |  |
| 4,6 - 2    | 4,2 - 2    | 3,7 - 2    |           |           |           |           |  |  |  |  |  |  |  |  |  |  |  |
| 5,8 - 3    |            |            |           |           |           |           |  |  |  |  |  |  |  |  |  |  |  |
| 7,1 - 3    | 6 - 3      |            |           |           |           |           |  |  |  |  |  |  |  |  |  |  |  |
| 8,2 - 4    | 7,5 - 4    |            |           |           |           |           |  |  |  |  |  |  |  |  |  |  |  |
| 8,8 - 4    |            |            |           |           |           |           |  |  |  |  |  |  |  |  |  |  |  |
| 10,8 - 5,5 |            |            |           |           |           |           |  |  |  |  |  |  |  |  |  |  |  |
| 12,7 - 7,5 | 12 - 7,5   |            |           |           |           |           |  |  |  |  |  |  |  |  |  |  |  |
| 14,4 - 7,5 | 13,5 - 7,5 | 12,7 - 7,5 |           |           |           |           |  |  |  |  |  |  |  |  |  |  |  |
| 10,7 - 5,5 |            |            |           |           |           |           |  |  |  |  |  |  |  |  |  |  |  |
| 12,7 - 7,5 | 11,4 - 7,5 |            |           |           |           |           |  |  |  |  |  |  |  |  |  |  |  |
| 14,7 - 7,5 | 13,6 - 7,5 |            |           |           |           |           |  |  |  |  |  |  |  |  |  |  |  |
| 17 - 7,5   | 15,9 - 10  | 14,5 - 10  |           |           |           |           |  |  |  |  |  |  |  |  |  |  |  |
| 19,8 - 10  | 18,6 - 10  | 17,4 - 10  | 16 - 10   |           |           |           |  |  |  |  |  |  |  |  |  |  |  |
| 19,2 - 10  | 18,4 - 10  | 17 - 10    | 16 - 10   | 15 - 10   |           |           |  |  |  |  |  |  |  |  |  |  |  |
| 22,5 - 10  | 21,5 - 10  | 20,5 - 15  | 19,4 - 15 | 18,1 - 15 |           |           |  |  |  |  |  |  |  |  |  |  |  |
| 25,5 - 15  | 25 - 15    | 24 - 15    | 23,1 - 15 | 22 - 15   | 19,5 - 15 |           |  |  |  |  |  |  |  |  |  |  |  |
| 29,6 - 15  | 29 - 15    | 28 - 15    | 27,2 - 15 | 26,1 - 20 | 23,5 - 20 |           |  |  |  |  |  |  |  |  |  |  |  |
| 33,8 - 15  | 33,5 - 15  | 32,5 - 20  | 31,5 - 20 | 30,8 - 20 | 28 - 20   | 24,8 - 20 |  |  |  |  |  |  |  |  |  |  |  |

| MODELO                  | Q<br>m³/h<br>l/min | 0          | 3  | 6   | 12  | 18  | 24  | 30  | 36  | 42         | 48         | 54         | 60         |
|-------------------------|--------------------|------------|----|-----|-----|-----|-----|-----|-----|------------|------------|------------|------------|
|                         |                    | 0          | 50 | 100 | 200 | 300 | 400 | 500 | 600 | 700        | 800        | 900        | 1000       |
| KDN 80-160 / 147 / 127  | H<br>(m)           | 5,7 - 2    |    |     |     |     |     |     |     | 5,4 - 2    | 5,25 - 2   | 5,05 - 2   | 4,8 - 2    |
| KDN 80-160 / 153 / 136  |                    | 6,4 - 3    |    |     |     |     |     |     |     | 6,2 - 3    | 6,05 - 3   | 5,85 - 3   | 5,7 - 3    |
| KDN 80-160 / 153        |                    | 7,3 - 3    |    |     |     |     |     |     |     | 7,1 - 3    | 6,9 - 3    | 6,7 - 3    | 6,5 - 3    |
| KDN 80-160 / 161        |                    | 8,2 - 3    |    |     |     |     |     |     |     | 8 - 3      | 7,9 - 3    | 7,75 - 3   | 7,5 - 3    |
| KDN 80-160 / 169        |                    | 9,1 - 4    |    |     |     |     |     |     |     | 9 - 4      | 8,85 - 4   | 8,7 - 4    | 8,6 - 4    |
| KDN 80-160 / 177        |                    | 10 - 4     |    |     |     |     |     |     |     | 9,9 - 4    | 9,85 - 4   | 9,8 - 4    | 9,7 - 4    |
| KDN 80-200 / 170        |                    | 9,2 - 4    |    |     |     |     |     |     |     | 9,1 - 4    | 9 - 4      | 8,7 - 4    | 8,5 - 4    |
| KDN 80-200 / 180        |                    | 10,3 - 4   |    |     |     |     |     |     |     | 10,4 - 4   | 10,2 - 4   | 10 - 4     | 9,9 - 4    |
| KDN 80-200 / 190        |                    | 11,4 - 4   |    |     |     |     |     |     |     | 11,7 - 4   | 11,6 - 4   | 11,5 - 5,5 | 11,3 - 5,5 |
| KDN 80-200 / 200        |                    | 12,7 - 5,5 |    |     |     |     |     |     |     | 13 - 5,5   | 13 - 5,5   | 12,8 - 7,5 | 12,7 - 7,5 |
| KDN 80-200 / 210        |                    | 14,1 - 5,5 |    |     |     |     |     |     |     | 14,5 - 5,5 | 14,4 - 5,5 | 14,4 - 7,5 | 14,2 - 7,5 |
| KDN 80-200 / 222        |                    | 15,9 - 7,5 |    |     |     |     |     |     |     | 16,2 - 7,5 | 16,2 - 7,5 | 16,1 - 7,5 | 16,1 - 7,5 |
| KDN 80-250 / 220        |                    | 16 - 7,5   |    |     |     |     |     |     |     | 16,4 - 7,5 | 16,2 - 7,5 | 16,1 - 7,5 | 15,9 - 7,5 |
| KDN 80-250 / 230        |                    | 17,3 - 7,5 |    |     |     |     |     |     |     | 18 - 7,5   | 17,9 - 7,5 | 17,7 - 7,5 | 17,5 - 7,5 |
| KDN 80-250 / 240        |                    | 19 - 7,5   |    |     |     |     |     |     |     | 19,7 - 7,5 | 19,6 - 7,5 | 19,5 - 7,5 | 19,3 - 10  |
| KDN 80-250 / 250        |                    | 20,6 - 10  |    |     |     |     |     |     |     | 21,4 - 10  | 21,3 - 10  | 21,2 - 10  | 21 - 10    |
| KDN 80-250 / 260        |                    | 22,6 - 10  |    |     |     |     |     |     |     | 23,1 - 10  | 23 - 10    | 22,9 - 10  | 22,8 - 10  |
| KDN 80-250 / 270        |                    | 24,5 - 10  |    |     |     |     |     |     |     | 24,8 - 10  | 24,7 - 10  | 24,6 - 10  | 24,5 - 10  |
| KDN 80-315 / 275        |                    | 24,9 - 15  |    |     |     |     |     |     |     |            | 25,5 - 15  | 25,4 - 15  | 25,3 - 15  |
| KDN 80-315 / 290        |                    | 28 - 15    |    |     |     |     |     |     |     |            | 28,8 - 15  | 28,6 - 15  | 28,3 - 15  |
| KDN 80-315 / 305        |                    | 31,4 - 15  |    |     |     |     |     |     |     |            | 32,1 - 15  | 32 - 15    | 32 - 15    |
| KDN 80-315 / 320        |                    | 34,8 - 20  |    |     |     |     |     |     |     |            | 35,8 - 20  | 35,9 - 20  | 35,8 - 20  |
| KDN 80-315 / 334        |                    | 38,3 - 20  |    |     |     |     |     |     |     |            | 39 - 20    | 39,1 - 20  | 39,1 - 20  |
| KDN 100-200 / 180       |                    | 10,2 - 7,5 |    |     |     |     |     |     |     |            |            |            | 10,1 - 7,5 |
| KDN 100-200 / 190       |                    | 11,6 - 7,5 |    |     |     |     |     |     |     |            |            |            | 11,5 - 7,5 |
| KDN 100-200 / 200       |                    | 12,9 - 7,5 |    |     |     |     |     |     |     |            |            |            | 12,8 - 7,5 |
| KDN 100-200 / 210       |                    | 14,3 - 10  |    |     |     |     |     |     |     |            |            |            | 14,2 - 10  |
| KDN 100-200 / 219       |                    | 16 - 10    |    |     |     |     |     |     |     |            |            |            | 15,7 - 10  |
| KDN 100-250 / 220       |                    | 15,2 - 10  |    |     |     |     |     |     |     |            |            |            | 15,6 - 10  |
| KDN 100-250 / 230       |                    | 16,9 - 10  |    |     |     |     |     |     |     |            |            |            | 17,4 - 10  |
| KDN 100-250 / 240       |                    | 18,5 - 15  |    |     |     |     |     |     |     |            |            |            | 19,1 - 15  |
| KDN 100-250 / 250       |                    | 20,1 - 15  |    |     |     |     |     |     |     |            |            |            | 20,7 - 15  |
| KDN 100-250 / 260       |                    | 22,3 - 15  |    |     |     |     |     |     |     |            |            |            | 22,7 - 15  |
| KDN 100-250 / 270       |                    | 24,3 - 15  |    |     |     |     |     |     |     |            |            |            | 24,6 - 15  |
| KDN 100-315 / 275       |                    | 25 - 15    |    |     |     |     |     |     |     |            |            |            | 25,5 - 15  |
| KDN 100-315 / 290       |                    | 28 - 20    |    |     |     |     |     |     |     |            |            |            | 28,5 - 20  |
| KDN 100-315 / 305       |                    | 31,2 - 20  |    |     |     |     |     |     |     |            |            |            | 31,8 - 20  |
| KDN 100-315 / 320       |                    | 34,5 - 25  |    |     |     |     |     |     |     |            |            |            | 35 - 25    |
| KDN 100-315 / 334       |                    | 38,1 - 25  |    |     |     |     |     |     |     |            |            |            | 38,1 - 25  |
| KDN 125-250 / 220       |                    | 15 - 15    |    |     |     |     |     |     |     |            |            |            |            |
| KDN 125-250 / 230       |                    | 16,7 - 15  |    |     |     |     |     |     |     |            |            |            |            |
| KDN 125-250 / 240       |                    | 18,2 - 20  |    |     |     |     |     |     |     |            |            |            |            |
| KDN 125-250 / 250       |                    | 19,9 - 20  |    |     |     |     |     |     |     |            |            |            |            |
| KDN 125-250 / 260       |                    | 21,8 - 25  |    |     |     |     |     |     |     |            |            |            |            |
| KDN 125-250 / 269       |                    | 24 - 25    |    |     |     |     |     |     |     |            |            |            |            |
| KDN 150-200 / 210 / 170 | 9,2 - 15           |            |    |     |     |     |     |     |     |            |            |            |            |
| KDN 150-200 / 218 / 182 | 10,5 - 15          |            |    |     |     |     |     |     |     |            |            |            |            |
| KDN 150-200 / 218 / 200 | 11,6 - 15          |            |    |     |     |     |     |     |     |            |            |            |            |
| KDN 150-200 / 218       | 12,9 - 20          |            |    |     |     |     |     |     |     |            |            |            |            |
| KDN 150-200 / 224       | 13,8 - 20          |            |    |     |     |     |     |     |     |            |            |            |            |

# KDN

## Tablas de selección rápida / Numerical selection table

|  | 66       | 72       | 78       | 84       | 90       | 102      | 114      | 120     | 150     | 180     | 210     | 240     | 270     | 300     | 330     | 360     | 390     | 420    |
|--|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
|  | 1100     | 1200     | 1300     | 1400     | 1500     | 1700     | 1900     | 2000    | 2500    | 3000    | 3500    | 4000    | 4500    | 5000    | 5500    | 6000    | 6500    | 7000   |
|  | 4,6-2    | 4,35-3   | 4,15-3   | 3,85-3   | 3,6-3    | 3,1-3    | 2,5-3    | 2,2-3   |         |         |         |         |         |         |         |         |         |        |
|  | 5,4-3    | 5,15-3   | 4,8-3    | 4,65-3   | 4,4-3    | 3,85-3   | 3,3-3    | 3-3     |         |         |         |         |         |         |         |         |         |        |
|  | 6,3-3    | 6-3      | 5,75-3   | 5,4-3    | 5,2-3    | 4,55-4   | 3,9-4    | 3,6-4   |         |         |         |         |         |         |         |         |         |        |
|  | 7,3-3    | 7,05-4   | 6,8-4    | 6,5-4    | 6,25-4   | 5,6-4    | 4,9-4    | 4,6-4   |         |         |         |         |         |         |         |         |         |        |
|  | 8,35-4   | 8,1-4    | 7,85-4   | 7,6-4    | 7,3-4    | 6,75-5,5 | 6-5,5    | 5,7-5,5 |         |         |         |         |         |         |         |         |         |        |
|  | 9,5-4    | 9,3-5,5  | 9,1-5,5  | 8,85-5,5 | 8,7-5,5  | 8,1-5,5  | 7,25-5,5 | 6,9-5,5 |         |         |         |         |         |         |         |         |         |        |
|  | 8,2-4    | 7,8-4    | 7,5-4    | 7,1-4    | 6,7-5,5  | 5,6-5,5  |          |         |         |         |         |         |         |         |         |         |         |        |
|  | 9,6-4    | 9,2-5,5  | 9-5,5    | 8,6-5,5  | 8,2-5,5  | 7,2-5,5  |          |         |         |         |         |         |         |         |         |         |         |        |
|  | 11-5,5   | 10,7-5,5 | 10,5-5,5 | 10,1-7,5 | 9,8-7,5  | 8,7-7,5  | 6,8-7,5  |         |         |         |         |         |         |         |         |         |         |        |
|  | 12,5-7,5 | 12,3-7,5 | 12-7,5   | 11,6-7,5 | 11,4-7,5 | 10,5-7,5 | 9,4-7,5  | 8,8-7,5 |         |         |         |         |         |         |         |         |         |        |
|  | 14,1-7,5 | 13,9-7,5 | 13,7-7,5 | 13,3-7,5 | 13,1-7,5 | 12,1-7,5 | 11,2-10  | 10,6-10 |         |         |         |         |         |         |         |         |         |        |
|  | 16-7,5   | 15,7-7,5 | 15,6-7,5 | 15,3-7,5 | 15-10    | 14,3-10  | 13,4-10  | 12,8-10 |         |         |         |         |         |         |         |         |         |        |
|  | 15,5-7,5 | 15,2-7,5 | 14,9-7,5 | 14,5-7,5 | 13,9-10  | 12,8-10  |          |         |         |         |         |         |         |         |         |         |         |        |
|  | 17,2-7,5 | 16,9-10  | 16,5-10  | 16-10    | 15,5-10  | 14,3-10  | 12,4-10  |         |         |         |         |         |         |         |         |         |         |        |
|  | 19-10    | 18,7-10  | 18,4-10  | 18-10    | 17,6-10  | 16,6-15  | 15,3-15  | 14,6-15 |         |         |         |         |         |         |         |         |         |        |
|  | 20,8-10  | 20,6-10  | 20,3-10  | 19,9-15  | 19,6-15  | 18,6-15  | 17,4-15  | 16,8-15 |         |         |         |         |         |         |         |         |         |        |
|  | 22,6-10  | 22,4-15  | 22,1-15  | 21,8-15  | 21,4-15  | 20,6-15  | 19,6-15  | 19-15   | 15,1-15 |         |         |         |         |         |         |         |         |        |
|  | 24,4-15  | 24,3-15  | 24,1-15  | 23,7-15  | 23,3-15  | 22,4-15  | 21,4-15  | 20,7-15 | 16,3-20 |         |         |         |         |         |         |         |         |        |
|  | 25,1-15  | 25-15    | 24,8-15  | 24,3-15  | 24-15    | 23-15    | 21,4-20  | 20,5-20 |         |         |         |         |         |         |         |         |         |        |
|  | 28,3-15  | 28,1-15  | 28-15    | 27,5-15  | 27,4-15  | 26,5-20  | 25-20    | 24,6-20 | 19,1-20 |         |         |         |         |         |         |         |         |        |
|  | 32-20    | 31,8-20  | 31,5-20  | 31,2-20  | 30,9-20  | 30-20    | 29-25    | 28,5-25 | 24-25   |         |         |         |         |         |         |         |         |        |
|  | 35,6-20  | 35,4-20  | 35-20    | 34,9-20  | 34,7-20  | 34-20    | 33,2-25  | 32,8-25 | 28,8-30 |         |         |         |         |         |         |         |         |        |
|  | 39-20    | 38,8-20  | 38,6-20  | 38,5-20  | 38,3-25  | 37,9-25  | 37-25    | 36,9-30 | 33,1-30 | 28-40   |         |         |         |         |         |         |         |        |
|  | 10,1-7,5 | 10-7,5   | 9,9-7,5  | 9,7-7,5  | 9,5-7,5  | 9,1-7,5  | 8,5-7,5  | 8,3-7,5 | 7-7,5   | 5,4-7,5 |         |         |         |         |         |         |         |        |
|  | 11,4-7,5 | 11,3-7,5 | 11,2-7,5 | 11,1-7,5 | 11-7,5   | 10,5-7,5 | 10,1-7,5 | 10-7,5  | 8,6-10  | 7-10    |         |         |         |         |         |         |         |        |
|  | 12,8-7,5 | 12,8-7,5 | 12,7-7,5 | 12,6-10  | 12,5-10  | 12,2-10  | 11,8-10  | 11,6-10 | 10,4-10 | 8,8-10  |         |         |         |         |         |         |         |        |
|  | 14,2-10  | 14,2-10  | 14,2-10  | 14,1-10  | 14-10    | 13,8-10  | 13,5-10  | 13,3-10 | 12,3-15 | 10,7-15 | 9-15    |         |         |         |         |         |         |        |
|  | 15,7-10  | 15,6-10  | 15,6-10  | 15,5-10  | 15,5-10  | 15,3-10  | 15,1-15  | 15-15   | 14-15   | 12,5-15 | 10,8-15 |         |         |         |         |         |         |        |
|  | 15,5-10  | 15,3-10  | 15,2-10  | 15-10    | 14,8-10  | 14,3-10  | 13,7-15  | 13,4-15 | 11,4-15 |         |         |         |         |         |         |         |         |        |
|  | 17,3-10  | 17,2-10  | 17-10    | 16,8-15  | 16,6-15  | 16,2-15  | 15,7-15  | 15,3-15 | 13,6-15 | 11,1-15 |         |         |         |         |         |         |         |        |
|  | 19-15    | 18,9-15  | 18,8-15  | 18,6-15  | 18,5-15  | 18,2-15  | 17,6-15  | 17,4-15 | 15,7-20 | 13,3-20 |         |         |         |         |         |         |         |        |
|  | 20,7-15  | 20,6-15  | 20,5-15  | 20,4-15  | 20,3-15  | 20-15    | 19,4-15  | 19,2-15 | 17,6-20 | 15,4-20 |         |         |         |         |         |         |         |        |
|  | 22,7-15  | 22,6-15  | 22,5-15  | 22,5-15  | 22,4-15  | 22,1-15  | 21,6-15  | 21,4-20 | 19,8-20 | 17,7-20 | 15,1-20 |         |         |         |         |         |         |        |
|  | 24,6-15  | 24,6-15  | 24,6-15  | 24,5-15  | 24,4-15  | 24,1-20  | 23,7-20  | 23,5-20 | 22,1-20 | 20,1-25 | 17,3-25 |         |         |         |         |         |         |        |
|  | 25,4-15  | 25,3-15  | 25,2-15  | 25,1-15  | 25-15    | 24,7-20  | 24,4-20  | 24-20   | 22-20   | 19-25   |         |         |         |         |         |         |         |        |
|  | 28,5-20  | 28,5-20  | 28,4-20  | 28,3-20  | 28,2-20  | 28-20    | 27,7-20  | 27-20   | 25,5-25 | 23-25   |         |         |         |         |         |         |         |        |
|  | 31,8-20  | 31,8-20  | 31,7-20  | 31,6-20  | 31,5-20  | 31,2-25  | 30,8-25  | 30,5-25 | 29-30   | 27-30   | 24-40   |         |         |         |         |         |         |        |
|  | 35-25    | 35-25    | 35-25    | 35-25    | 35-25    | 34,8-25  | 34,5-25  | 34,2-25 | 33-30   | 31-40   | 28,1-40 |         |         |         |         |         |         |        |
|  | 38,1-25  | 38,1-25  | 38,1-25  | 38-25    | 38-25    | 37,7-30  | 37,5-30  | 37,3-30 | 36,5-40 | 34,8-40 | 32-40   | 28,8-40 |         |         |         |         |         |        |
|  |          |          |          |          |          | 15,5-15  | 15,5-15  | 15,4-15 | 14,8-15 | 14-15   | 13-15   | 11,8-20 | 10,5-20 | 9,2-20  |         |         |         |        |
|  |          |          |          |          |          | 17,1-15  | 17-15    | 17-15   | 16,5-15 | 15,8-20 | 14,8-20 | 13,8-20 | 12,5-20 | 12,3-20 | 9,5-20  |         |         |        |
|  |          |          |          |          |          | 18,5-20  | 18,5-20  | 18,5-20 | 18,2-20 | 17,6-20 | 16,8-20 | 15,8-20 | 14,5-25 | 13,3-25 | 11,6-25 | 10,1-25 |         |        |
|  |          |          |          |          |          | 20-20    | 20-20    | 20-20   | 19,9-20 | 19,5-20 | 18,7-25 | 17,8-25 | 16,6-25 | 15,5-25 | 14-30   | 12,3-30 |         |        |
|  |          |          |          |          |          | 22-25    | 22-25    | 22-25   | 21,7-25 | 21,3-25 | 20,6-25 | 19,9-25 | 18-30   | 17,7-30 | 16,3-30 | 14,6-30 | 13-30   |        |
|  |          |          |          |          |          | 23,9-25  | 23,9-25  | 23,8-25 | 23,6-25 | 23,2-25 | 22,7-30 | 22,1-30 | 22,2-30 | 20,2-40 | 19-40   | 17,5-40 | 15,6-40 | 14-40  |
|  |          |          |          |          |          |          |          | 9,1-15  | 8,9-15  | 8,6-15  | 8,3-15  | 7,9-15  | 7,5-15  | 6,8-15  | 5,9-15  | 5,4-15  |         |        |
|  |          |          |          |          |          |          |          | 10,3-15 | 10,2-15 | 9,9-15  | 9,5-15  | 9,1-15  | 8,6-15  | 8,1-15  | 7,4-15  | 6,6-15  |         |        |
|  |          |          |          |          |          |          |          | 11,4-15 | 11,2-15 | 10,9-15 | 10,5-15 | 10,1-20 | 9,7-20  | 9,2-20  | 8,5-20  | 7,8-20  | 6,9-20  | 5,9-20 |
|  |          |          |          |          |          |          |          | 12,6-20 | 12,4-20 | 12,1-20 | 11,6-20 | 11,1-20 | 10,7-20 | 10,2-20 | 9,5-20  | 8,8-20  | 8-20    | 7,1-20 |
|  |          |          |          |          |          |          |          | 13,5-20 | 13,3-20 | 13-20   | 12,6-20 | 12,2-20 | 11,7-20 | 11,2-20 | 10,6-20 | 9,9-20  | 9,1-20  | 8,2-20 |

1.450 r.p.m.







# SUMERGIBLES

| POZO / SONDEO |          | AGUAS SUCIAS |                |
|---------------|----------|--------------|----------------|
| 104           | AR       | 121          | VORT           |
| 108           | SP       | 122          | COMPACTA       |
| 112           | AS       | 123          | VG             |
| 114           | SX       | 124          | GRIX / GT / GX |
| 119           | FR       | 126          | HT             |
| 120           | FRANKLIN | 127          | M              |
|               |          | 130          | VT             |
|               |          | 132          | VN             |
|               |          | 133          | FEKAFOS        |
|               |          | DRENAJE      |                |
|               |          | 134          | DRX            |
|               |          | 135          | DG             |
|               |          | 136          | ACCESORIOS     |

# AR



### Aplicaciones:

Bombas sumergibles de 4" multiturbinas de elevado rendimiento hidráulico especialmente indicadas para la elevación, distribución y presurización en instalaciones hidráulicas civiles e industriales. Montaje en equipos de presión, cisternas, sistemas de riego, de lavado, etc....

### Características constructivas:

Soporte y cuerpo superior ( con válvula de retención incorporada) en Acero inoxidable AISI 304 de fundición. Incorporan un nuevo sistema antibloqueo «Turbinas flotantes» generan una «altísima resistencia al desgaste» y máxima robustez y fiabilidad en el tiempo. Turbinas en Noryl y difusores en policarbonato. Eje en acero inoxidable AISI 304. Camisa exterior en acero inoxidable AISI 304. Manguito guía superior interno en caucho. Rejilla, cubre cable y válvula de retención en acero inoxidable AISI 304.

### Motor:

#### Podemos escoger entre dos tipos de motor:

**Motor FRANKLIN** que cumple con la normativa DIN e ISO y cuyas características principales son: Estator hermético en acero inoxidable, acoplamiento internacional tipo NEMA, no necesita mantenimiento y están lubricados por agua.

**Motor FR** que cumple con la normativa DIN e ISO y



cuyas características principales son: Estator de acero inoxidable en baño de aceite atóxico, acoplamiento internacional tipo NEMA, no necesita mantenimiento.

**Temperatura máxima del agua:** + 30° C

**Máximo contenido en arena:** 50 gr/m<sup>3</sup>



### Applications:

4" submersible pumps with multiple impellers with a high hydraulic performance, especially recommended for elevation, distribution and pressurisation in civil and industrial hydraulic installations. Assembly in pressure units, cisterns, irrigation, washing systems, etc.

### Constructive characteristics:

Support and upper body (with built-in retention valve) in cast AISI 304 stainless steel.

They incorporate a new "Floating Impeller" That generate and **high resistance to wear** and maximum solidity and reliability with time.

Impellers and diffusers in Technopolymer "A".

Exterior cladding in AISI 304 stainless steel.

### Motor:

#### We can choose between two types of motors:

**FRANKLIN motor** complying with DIN and ISO standards with the following main features: Hermetic stator in stainless steel, international NEMA coupling, no need for maintenance, water lubricated.

**FR motor** complying with DIN and ISO standards with the following main features: Stator in stainless steel, international NEMA coupling, no need for maintenance, atoxic oil lubricated.

**Maximum water temperature:** + 30° C.

**Maximum content of sand in water:** 50 gr/m<sup>3</sup>

| Tipo<br>Type | Voltaje<br>Voltage | Cond.<br>µF | Potencia |      | "A"  | Caudal m <sup>3</sup> /h / Flow m <sup>3</sup> /h |     |     |     |     |     | Longitud<br>Lenght |      |
|--------------|--------------------|-------------|----------|------|------|---|-----|-----|-----|-----|-----|--------------------|------|
|              |                    |             | HP       | KW   |      | 0   | 0,6 | 0,9 | 1,2 | 1,5 | 2,1 |                    | 2,4  |
|              |                    |             |          |      |      | Altura m.c.a. / Height w.c.m.                     |     |     |     |     |     |                    |      |
| AR 15-19 M   | II 230             | 20          | 0,75     | 0,55 | 4,3  | 126   | 105 | 86  | 60  | 30  |     |                    | 752  |
| AR 15-19 T   | III 230            | -           |          |      | 2,8  |   |     |     |     |     |     |                    | 723  |
| AR 15-19 T   | III 400            | -           |          |      | 1,6  |   |     |     |     |     |     |                    | 723  |
| AR 15-26 M   | II 230             | 35          | 1        | 0,75 | 5,7  | 173   | 141 | 117 | 81  | 39  |     |                    | 941  |
| AR 15-26 T   | III 230            | -           |          |      | 3,7  |   |     |     |     |     |     |                    | 913  |
| AR 15-26 T   | III 400            | -           |          |      | 2,1  |   |     |     |     |     |     |                    | 913  |
| AR 15-38 M   | II 230             | 40          | 1,5      | 1,1  | 8,6  | 253   | 208 | 169 | 117 | 52  |     |                    | 1191 |
| AR 15-38 T   | III 230            | -           |          |      | 5,2  |   |     |     |     |     |     |                    | 1163 |
| AR 15-38 T   | III 400            | -           |          |      | 3,0  |   |     |     |     |     |     |                    | 1163 |
| AR 20-15 M   | II 230             | 20          | 0,75     | 0,55 | 4,3  | 95  | 85  | 79  | 72  | 64  | 41  | 38                 | 691  |
| AR 20-15 T   | III 230            | -           |          |      | 2,8  |   |     |     |     |     |     |                    | 662  |
| AR 20-15 T   | III 400            | -           |          |      | 1,6  |   |     |     |     |     |     |                    | 662  |
| AR 20-20 M   | II 230             | 35          | 1        | 0,75 | 5,7  | 127   | 115 | 107 | 95  | 83  | 56  | 40                 | 809  |
| AR 20-20 T   | III 230            | -           |          |      | 3,7  |   |     |     |     |     |     |                    | 781  |
| AR 20-20 T   | III 400            | -           |          |      | 2,1  |   |     |     |     |     |     |                    | 781  |
| AR 20-30 M   | II 230             | 40          | 1,5      | 1,1  | 8,6  | 195   | 183 | 170 | 155 | 137 | 92  | 69                 | 1057 |
| AR 20-30 T   | III 230            | -           |          |      | 5,2  |   |     |     |     |     |     |                    | 1029 |
| AR 20-30 T   | III 400            | -           |          |      | 3    |   |     |     |     |     |     |                    | 1029 |
| AR 20-36 M   | II 230             | 50          | 2        | 1,5  | 10,6 | 234   | 218 | 202 | 185 | 153 | 110 | 80                 | 1186 |
| AR 20-36 T   | III 230            | -           |          |      | 6,9  |   |     |     |     |     |     |                    | 1157 |
| AR 20-36 T   | III 400            | -           |          |      | 4    |   |     |     |     |     |     |                    | 1157 |

Ø Impulsión: 1 1/4" - Outlet Ø: 1 1/4"

# AR

| Tipo<br>Type | Voltage<br>Voltage | Cond.<br>µF | Potencia |      | "A"  | Caudal m³/h / Flow m³/h       |     |     |     |     |     |     |     |     |    | Longitud<br>Lenght |  |      |
|--------------|--------------------|-------------|----------|------|------|-------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|----|--------------------|--|------|
|              |                    |             | HP       | KW   |      | 0                             | 1,5 | 2,4 | 2,7 | 3,0 | 3,6 | 4,2 | 4,8 | 5,4 | 6  |                    |  |      |
|              |                    |             |          |      |      | Altura m.c.a. / Height w.c.m. |     |     |     |     |     |     |     |     |    |                    |  |      |
| AR 30-10 M   | II 230             | 20          |          |      | 4,3  |                               |     |     |     |     |     |     |     |     |    |                    |  | 595  |
| AR 30-10 T   | III 230            | -           | 0,75     | 0,55 | 2,8  | 69                            | 60  | 44  | 37  | 29  |     |     |     |     |    |                    |  | 566  |
| AR 30-10 T   | III 400            | -           |          |      | 1,6  |                               |     |     |     |     |     |     |     |     |    |                    |  | 566  |
| AR 30-14 M   | II 230             | 35          |          |      | 5,7  |                               |     |     |     |     |     |     |     |     |    |                    |  | 693  |
| AR 30-14 T   | III 230            | -           | 1        | 0,75 | 3,7  | 92                            | 79  | 60  | 52  | 42  |     |     |     |     |    |                    |  | 665  |
| AR 30-14 T   | III 400            | -           |          |      | 2,1  |                               |     |     |     |     |     |     |     |     |    |                    |  | 665  |
| AR 30-20 M   | II 230             | 40          |          |      | 8,6  |                               |     |     |     |     |     |     |     |     |    |                    |  | 826  |
| AR 30-20 T   | III 230            | -           | 1,5      | 1,1  | 5,2  | 139                           | 120 | 90  | 75  | 60  |     |     |     |     |    |                    |  | 798  |
| AR 30-20 T   | III 400            | -           |          |      | 3,0  |                               |     |     |     |     |     |     |     |     |    |                    |  | 798  |
| AR 40-11 M   | II 230             | 35          |          |      | 5,7  |                               |     |     |     |     |     |     |     |     |    |                    |  | 722  |
| AR 40-11 T   | III 230            | -           | 1        | 0,75 | 3,7  | 72                            | 66  | 58  | 54  | 49  | 38  | 26  |     |     |    |                    |  | 707  |
| AR 40-11 T   | III 400            | -           |          |      | 2,1  |                               |     |     |     |     |     |     |     |     |    |                    |  | 707  |
| AR 40-16 M   | II 230             | 40          |          |      | 8,6  |                               |     |     |     |     |     |     |     |     |    |                    |  | 835  |
| AR 40-16 T   | III 230            | -           | 1,5      | 1,1  | 5,2  | 106                           | 98  | 83  | 77  | 70  | 54  | 33  |     |     |    |                    |  | 810  |
| AR 40-16 T   | III 400            | -           |          |      | 3    |                               |     |     |     |     |     |     |     |     |    |                    |  | 810  |
| AR 40-21 M   | II 230             | 50          |          |      | 10,6 |                               |     |     |     |     |     |     |     |     |    |                    |  | 875  |
| AR 40-21 T   | III 230            | -           | 2        | 1,5  | 6,9  | 142                           | 132 | 115 | 108 | 100 | 79  | 49  |     |     |    |                    |  | 846  |
| AR 40-21 T   | III 400            | -           |          |      | 4    |                               |     |     |     |     |     |     |     |     |    |                    |  | 846  |
| AR 40-32 T   | III 230            | -           |          |      | 10,2 |                               |     |     |     |     |     |     |     |     |    |                    |  | 1227 |
| AR 40-32 T   | III 400            | -           | 3        | 2,2  | 5,9  | 208                           | 194 | 165 | 152 | 138 | 104 | 62  |     |     |    |                    |  | 1227 |
| AR 60-07 M   | II 230             | 20          |          |      | 4,3  |                               |     |     |     |     |     |     |     |     |    |                    |  | 572  |
| AR 60-07 T   | III 230            | -           | 0,75     | 0,55 | 2,8  | 46                            | 43  | 40  | 39  | 37  | 33  | 28  | 21  | 13  | 7  |                    |  | 543  |
| AR 60-07 T   | III 400            | -           |          |      | 1,6  |                               |     |     |     |     |     |     |     |     |    |                    |  | 543  |
| AR 60-09 M   | II 230             | 35          |          |      | 5,7  |                               |     |     |     |     |     |     |     |     |    |                    |  | 643  |
| AR 60-09 T   | III 230            | -           | 1        | 0,75 | 3,7  | 59                            | 55  | 51  | 49  | 47  | 43  | 37  | 28  | 20  | 10 |                    |  | 615  |
| AR 60-09 T   | III 400            | -           |          |      | 2,1  |                               |     |     |     |     |     |     |     |     |    |                    |  | 615  |
| AR 60-14 M   | II 230             | 40          |          |      | 8,6  |                               |     |     |     |     |     |     |     |     |    |                    |  | 779  |
| AR 60-14 T   | III 230            | -           | 1,5      | 1,1  | 5,2  | 93                            | 87  | 81  | 79  | 76  | 68  | 58  | 47  | 33  | 20 |                    |  | 751  |
| AR 60-14 T   | III 400            | -           |          |      | 3,0  |                               |     |     |     |     |     |     |     |     |    |                    |  | 751  |
| AR 60-18 M   | II 230             | 50          |          |      | 10,6 |                               |     |     |     |     |     |     |     |     |    |                    |  | 894  |
| AR 60-18 T   | III 230            | -           | 2        | 1,5  | 6,9  | 120                           | 113 | 105 | 102 | 98  | 88  | 75  | 60  | 42  | 25 |                    |  | 865  |
| AR 60-18 T   | III 400            | -           |          |      | 4,0  |                               |     |     |     |     |     |     |     |     |    |                    |  | 865  |
| AR 60-27 T   | III 230            | -           |          |      | 10,2 |                               |     |     |     |     |     |     |     |     |    |                    |  | 1123 |
| AR 60-27 T   | III 400            | -           | 3        | 2,2  | 5,9  | 175                           | 164 | 152 | 147 | 141 | 127 | 109 | 87  | 61  | 35 |                    |  | 1123 |
| AR 60-35 T   | III 230            | -           |          |      | 13,5 |                               |     |     |     |     |     |     |     |     |    |                    |  | 1441 |
| AR 60-35 T   | III 400            | -           | 4        | 3    | 7,8  | 231                           | 217 | 202 | 196 | 189 | 170 | 149 | 120 | 87  | 50 |                    |  | 1441 |
| AR 60-48 T   | III 230            | -           |          |      | 17,3 |                               |     |     |     |     |     |     |     |     |    |                    |  | 1836 |
| AR 60-48 T   | III 400            | -           | 5,5      | 4    | 10,0 | 322                           | 299 | 276 | 267 | 256 | 231 | 199 | 160 | 118 | 70 |                    |  | 1836 |

# AR

| Tipo<br>Type | Voltaje<br>Voltage | Cond.<br>µF | Potencia |      | "A"  | Caudal m <sup>3</sup> /h / Flow m <sup>3</sup> /h |     |     |     |     |     |     |     |     |     | Longitud<br>Lenght |
|--------------|--------------------|-------------|----------|------|------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------------------|
|              |                    |             | HP       | KW   |      | 0   | 3,0 | 3,6 | 4,2 | 4,8 | 5,4 | 6   | 7,2 | 8,4 | 9,6 |                    |
|              |                    |             |          |      |      | Altura m.c.a. / Height w.c.m.                     |     |     |     |     |     |     |     |     |     |                    |
| AR 110-07 M  | II 230             | 35          | 1        | 0,75 | 5,7  | 42  | 36  | 34  | 32  | 30  | 28  | 25  | 19  | 11  |     | 689                |
| AR 110-07 T  | III 230            | -           |          |      | 3,7  |   |     |     |     |     |     |     |     |     |     | 661                |
| AR 110-07 T  | III 400            | -           |          |      | 2,1  |   |     |     |     |     |     |     |     |     |     | 661                |
| AR 110-10 M  | II 230             | 40          | 1,5      | 1,1  | 8,6  | 62  | 53  | 51  | 48  | 45  | 41  | 38  | 29  | 18  |     | 810                |
| AR 110-10 T  | III 230            | -           |          |      | 5,2  |   |     |     |     |     |     |     |     |     |     | 782                |
| AR 110-10 T  | III 400            | -           |          |      | 3,0  |   |     |     |     |     |     |     |     |     |     | 782                |
| AR 110-14 M  | II 230             | 50          | 2        | 1,5  | 10,6 | 90  | 77  | 74  | 71  | 68  | 63  | 59  | 46  | 28  |     | 963                |
| AR 110-14 T  | III 230            | -           |          |      | 6,9  |   |     |     |     |     |     |     |     |     |     | 934                |
| AR 110-14 T  | III 400            | -           |          |      | 4,0  |   |     |     |     |     |     |     |     |     |     | 934                |
| AR 110-20 T  | III 230            | -           | 3        | 2,2  | 10,2 | 125   | 107 | 102 | 97  | 92  | 86  | 80  | 62  | 40  |     | 1187               |
| AR 110-20 T  | III 400            | -           |          |      | 5,9  |   |     |     |     |     |     |     |     |     |     | 1187               |
| AR 110-27 T  | III 230            | -           | 4        | 3    | 13,5 | 169   | 145 | 139 | 131 | 123 | 115 | 107 | 84  | 55  |     | 1555               |
| AR 110-27 T  | III 400            | -           |          |      | 7,8  |   |     |     |     |     |     |     |     |     |     | 1555               |
| AR 110-36 T  | III 230            | -           | 5,5      | 4    | 17,3 | 221   | 190 | 181 | 173 | 164 | 154 | 143 | 112 | 72  |     | 1901               |
| AR 110-36 T  | III 400            | -           |          |      | 10,0 |   |     |     |     |     |     |     |     |     |     | 1901               |

Ø Impulsión: 2" - Outlet Ø: 2"

| Tipo<br>Type | Voltaje<br>Voltage | Cond.<br>µF | Potencia |     | "A"  | Caudal m <sup>3</sup> /h / Flow m <sup>3</sup> /h |     |     |     |     |     |     |      |    |  | Longitud<br>Lenght |
|--------------|--------------------|-------------|----------|-----|------|---|-----|-----|-----|-----|-----|-----|------|----|--|--------------------|
|              |                    |             | HP       | KW  |      | 0   | 4,8 | 5,4 | 6   | 7,2 | 8,4 | 9,6 | 10,8 | 12 |  |                    |
|              |                    |             |          |     |      | Altura m.c.a. / Height w.c.m.                     |     |     |     |     |     |     |      |    |  |                    |
| AR 140-06 M  | II 230             | 40          | 1,5      | 1,1 | 8,6  | 39  | 36  | 35  | 34  | 32  | 29  | 26  | 22   | 17 |  | 683                |
| AR 140-06 T  | III 230            | -           |          |     | 5,2  |   |     |     |     |     |     |     |      |    |  | 655                |
| AR 140-06 T  | III 400            | -           |          |     | 3,0  |   |     |     |     |     |     |     |      |    |  | 655                |
| AR 140-08 M  | II 230             | 50          | 2        | 1,5 | 10,6 | 52  | 48  | 47  | 46  | 43  | 39  | 35  | 29   | 24 |  | 774                |
| AR 140-08 T  | III 230            | -           |          |     | 6,9  |   |     |     |     |     |     |     |      |    |  | 745                |
| AR 140-08 T  | III 400            | -           |          |     | 4,0  |   |     |     |     |     |     |     |      |    |  | 745                |
| AR 140-13 T  | III 230            | -           | 3        | 2,2 | 10,2 | 82  | 75  | 73  | 71  | 66  | 59  | 50  | 40   | 30 |  | 929                |
| AR 140-13 T  | III 400            | -           |          |     | 5,9  |   |     |     |     |     |     |     |      |    |  | 929                |
| AR 140-17 T  | III 230            | -           | 4        | 3   | 13,5 | 108   | 98  | 96  | 94  | 87  | 79  | 70  | 58   | 46 |  | 1204               |
| AR 140-17 T  | III 400            | -           |          |     | 7,8  |   |     |     |     |     |     |     |      |    |  | 1204               |
| AR 140-23 T  | III 230            | -           | 5,5      | 4   | 17,3 | 148   | 134 | 131 | 127 | 118 | 108 | 95  | 79   | 60 |  | 1504               |
| AR 140-23 T  | III 400            | -           |          |     | 10,0 |   |     |     |     |     |     |     |      |    |  | 1504               |
| AR 140-32 T  | III 230            | -           | 7,5      | 5,5 | 23,7 | 202   | 182 | 178 | 172 | 160 | 143 | 125 | 105  | 80 |  | 1936               |
| AR 140-32 T  | III 400            | -           |          |     | 13,7 |   |     |     |     |     |     |     |      |    |  | 1936               |

Ø Impulsión: 2" - Outlet Ø: 2"

# AR

| Tipo<br>Type | Voltaje<br>Voltage | Cond.<br>µF | Potencia |     | "A"  | Caudal m <sup>3</sup> /h / Flow m <sup>3</sup> /h |     |     |     |     |      |    |      |      |      | Longitud<br>Lenght |
|--------------|--------------------|-------------|----------|-----|------|---|-----|-----|-----|-----|------|----|------|------|------|--------------------|
|              |                    |             | HP       | KW  |      | 0   | 6   | 7,2 | 8,4 | 9,6 | 10,8 | 12 | 13,2 | 14,4 | 15,6 |                    |
|              |                    |             |          |     |      | Altura m.c.a. / Height w.c.m.                     |     |     |     |     |      |    |      |      |      |                    |
| AR 200-07 M  | II 230             | 50          | 2        | 1,5 | 10,6 | 45  | 37  | 36  | 33  | 31  | 28   | 25 | 22   | 18   | 14   | 890                |
| AR 200-07 T  | III 230            | -           |          |     | 6,9  |   |     |     |     |     |      |    |      |      |      | 861                |
| AR 200-07 T  | III 400            | -           |          |     | 4    |   |     |     |     |     |      |    |      |      |      | 861                |
| AR 200-10 T  | III 230            | -           | 3        | 2,2 | 10,2 | 64  | 54  | 52  | 48  | 44  | 41   | 36 | 32   | 26   | 20   | 1046               |
| AR 200-10 T  | III 400            | -           |          |     | 5,9  |   |     |     |     |     |      |    |      |      |      | 1046               |
| AR 200-14 T  | III 230            | -           | 4        | 3   | 13,5 | 89  | 76  | 72  | 67  | 62  | 56   | 49 | 43   | 35   | 28   | 1496               |
| AR 200-14 T  | III 400            | -           |          |     | 7,8  |   |     |     |     |     |      |    |      |      |      | 1496               |
| AR 200-19 T  | III 230            | -           | 5,5      | 4   | 17,3 | 120   | 102 | 97  | 91  | 89  | 76   | 68 | 58   | 48   | 37   | 1778               |
| AR 200-19 T  | III 400            | -           |          |     | 10   |   |     |     |     |     |      |    |      |      |      | 1778               |
| AR 200-26 T  | III 230            | -           | 7,5      | 5,5 | 23,7 | 163   | 136 | 129 | 120 | 111 | 100  | 87 | 75   | 61   | 48   | 2257               |
| AR 200-26 T  | III 400            | -           |          |     | 13,7 |   |     |     |     |     |      |    |      |      |      | 2257               |

Ø Impulsión: 2" - Outlet Ø: 2"

| Tipo<br>Type | Voltaje<br>Voltage | Cond.<br>µF | Potencia |     | "A"  | Caudal m <sup>3</sup> /h / Flow m <sup>3</sup> /h |     |     |     |     |      |    |    |    |    | Longitud<br>Lenght |
|--------------|--------------------|-------------|----------|-----|------|---|-----|-----|-----|-----|------|----|----|----|----|--------------------|
|              |                    |             | HP       | KW  |      | 0   | 5,4 | 7,2 | 8,4 | 9,6 | 10,8 | 12 | 14 | 18 | 24 |                    |
|              |                    |             |          |     |      | Altura m.c.a. / Height w.c.m.                     |     |     |     |     |      |    |    |    |    |                    |
| AR 250-08 T  | III 230            | -           | 3        | 2,2 | 10,2 | 51  |     |     | 41  | 39  | 37   | 35 | 32 | 24 | 12 | 1032               |
| AR 250-08 T  | III 400            | -           |          |     | 5,9  |   |     |     |     |     |      |    |    |    |    | 1032               |
| AR 250-11 T  | III 230            | -           | 4        | 3   | 13,5 | 70  |     |     | 57  | 54  | 52   | 49 | 45 | 34 | 18 | 1387               |
| AR 250-11 T  | III 400            | -           |          |     | 7,8  |   |     |     |     |     |      |    |    |    |    | 1387               |
| AR 250-15 T  | III 230            | -           | 5,5      | 4   | 17,3 | 97  |     |     | 79  | 76  | 73   | 69 | 64 | 50 | 27 | 1732               |
| AR 250-15 T  | III 400            | -           |          |     | 10,0 |   |     |     |     |     |      |    |    |    |    | 1732               |
| AR 250-20 T  | III 230            | -           | 7,5      | 5,5 | 23,7 | 125   |     |     | 102 | 98  | 94   | 89 | 81 | 65 | 37 | 2187               |
| AR 250-20 T  | III 400            | -           |          |     | 13,7 |   |     |     |     |     |      |    |    |    |    | 2187               |

Ø Impulsión: 2" - Outlet Ø: 2"

# SP

en acero inoxidable  
AISI-304



## Aplicaciones:

Bombas sumergibles de 4" multiturbinas de elevado rendimiento hidráulico, especialmente indicadas para la elevación, distribución y presurización en instalaciones hidráulicas civiles e industriales. Montaje en equipos de presión, cisternas, sistemas de riego, de lavado, etc....

## Características constructivas:

Bombas sumergibles con turbinas, difusores, camisa, cuerpo aspiración, cuerpo impulsión, cubrecables, rejilla de aspiración y tornillos en acero inoxidable **AISI-304**.

Válvula de retención de acero inoxidable incorporada. Casquillos guías en goma especial resistentes a la abrasión.

Turbinas equilibradas estáticamente y dinámicamente.

Máximo contenido en arena 50 gr/m<sup>3</sup>.

## Motor:

### Podemos escoger entre dos tipos de motor:

**Motor FRANKLIN** que cumple con la normativa DIN e ISO y cuyas características principales son: Estator hermético en acero inoxidable, acoplamiento internacional tipo NEMA, no necesita mantenimiento y están lubricados por agua.

**Motor FR** que cumple con la normativa DIN e ISO y cuyas características principales son: Estator en acero inoxidable en baño de aceite atóxico, acoplamiento internacional tipo NEMA, no necesita mantenimiento.

**Temperatura máxima del agua:** + 30° C



## Applications:

4" submersible pumps with multiple impellers with a high hydraulic yield, especially recommended for elevation, distribution and pressurisation in civil and industrial hydraulic installations. Assembly in pressure units, cisterns, irrigation, washing systems, etc.

## Constructive characteristics:

Impellers, difusors, inlet and outlet body, completely manufactured in stainless steel **AISI-304**.

Guide ring in rubber resistant against abrasion. Static and dynamic balanced impellers.

Maximum content of sand in water 50 gr./m<sup>3</sup>.

## Motor:

**We can choose between two types of motors:**

**FRANKLIN motor** complying with DIN and ISO standards with the following main features: Hermetic stator in stainless steel, international NEMA coupling, no need for maintenance, water lubricated.

**FR motor** complying with DIN and ISO standards with the following main features: Stator in stainless steel, international NEMA coupling, no need for maintenance, atoxic oil lubricated.

**Maximum water temperature:** + 30° C.



# SP

en acero inoxidable  
AISI-304



| Tipo<br>Type | Voltaje<br>Voltage | Cond.<br>µF | Potencia |      | "A"  | Caudal m <sup>3</sup> /h / Flow m <sup>3</sup> /h |     |     |     |     |     |     | Longitud<br>Lenght |
|--------------|--------------------|-------------|----------|------|------|---|-----|-----|-----|-----|-----|-----|--------------------|
|              |                    |             | HP       | KW   |      | 0   | 0,9 | 1,2 | 1,5 | 1,8 | 2,1 | 2,4 |                    |
|              |                    |             |          |      |      | Altura m.c.a. / Height w.c.m.                     |     |     |     |     |     |     |                    |
| SP 10-13 M   | II 230             | 20          | 0,75     | 0,55 | 4,3  | 77  | 71  | 68  | 61  | 56  | 48  | 38  | 711                |
| SP 10-13 T   | III 230            | -           |          |      | 2,8  |   |     |     |     |     |     |     | 682                |
| SP 10-13 T   | III 400            | -           |          |      | 1,6  |   |     |     |     |     |     |     | 682                |
| SP 10-18 M   | II 230             | 35          | 1        | 0,75 | 5,7  | 106   | 98  | 92  | 84  | 77  | 66  | 51  | 843                |
| SP 10-18 T   | III 230            | -           |          |      | 3,7  |   |     |     |     |     |     |     | 816                |
| SP 10-18 T   | III 400            | -           |          |      | 2,1  |   |     |     |     |     |     |     | 816                |
| SP 10-23 M   | II 230             | 40          | 1,5      | 1,1  | 8,6  | 136   | 124 | 118 | 108 | 98  | 84  | 67  | 977                |
| SP 10-23 T   | III 230            | -           |          |      | 5,2  |   |     |     |     |     |     |     | 949                |
| SP 10-23 T   | III 400            | -           |          |      | 3,0  |   |     |     |     |     |     |     | 949                |
| SP 10-33 M   | II 230             | 50          | 2        | 1,5  | 10,6 | 195   | 181 | 171 | 157 | 141 | 120 | 97  | 1239               |
| SP 10-33 T   | III 230            | -           |          |      | 6,9  |   |     |     |     |     |     |     | 1210               |
| SP 10-33 T   | III 400            | -           |          |      | 4,0  |   |     |     |     |     |     |     | 1210               |
| SP 10-48 T   | III 230            | -           | 3        | 2,2  | 10,2 | 282   | 258 | 241 | 221 | 199 | 171 | 137 | 1554               |
| SP 10-48 T   | III 400            | -           |          |      | 5,9  |   |     |     |     |     |     |     | 1554               |

Ø Impulsión: 1 1/4" - Outlet Ø: 1 1/4"

# SP en acero inoxidable AISI-304

| Tipo<br><i>Type</i> | Voltaje<br><i>Voltage</i> | Cond.<br>$\mu$ F | Potencia |      | "A"  | Caudal m <sup>3</sup> /h / Flow m <sup>3</sup> /h |     |     |     |     |     |     |     |     |     | Longitud<br><i>Length</i> |
|---------------------|---------------------------|------------------|----------|------|------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------------------------|
|                     |                           |                  | HP       | KW   |      | 0   | 0,9 | 1,2 | 1,5 | 1,8 | 2,1 | 2,4 | 3   | 3,6 | 4,2 |                           |
|                     |                           |                  |          |      |      | Altura m.c.a. / Height w.c.m.                     |     |     |     |     |     |     |     |     |     |                           |
| SP 18-9 M           | II 230                    | 20               | 0,75     | 0,55 | 4,3  | 58  | 56  | 55  | 54  | 52  | 49  | 48  | 43  | 36  | 25  | 627                       |
| SP 18-9 T           | III 230                   | -                |          |      | 2,8  |   |     |     |     |     |     |     |     |     |     | 598                       |
| SP 18-9 T           | III 400                   | -                |          |      | 1,6  |   |     |     |     |     |     |     |     |     |     | 598                       |
| SP 18-12 M          | II 230                    | 35               | 1        | 0,75 | 5,7  | 78  | 74  | 70  | 67  | 65  | 62  | 59  | 52  | 42  | 28  | 717                       |
| SP 18-12 T          | III 230                   | -                |          |      | 3,7  |   |     |     |     |     |     |     |     |     |     | 690                       |
| SP 18-12 T          | III 400                   | -                |          |      | 2,1  |   |     |     |     |     |     |     |     |     |     | 690                       |
| SP 18-18 M          | II 230                    | 40               | 1,5      | 1,1  | 8,6  | 117   | 109 | 105 | 101 | 98  | 93  | 89  | 78  | 64  | 42  | 872                       |
| SP 18-18 T          | III 230                   | -                |          |      | 5,2  |   |     |     |     |     |     |     |     |     |     | 844                       |
| SP 18-18 T          | III 400                   | -                |          |      | 3,0  |   |     |     |     |     |     |     |     |     |     | 844                       |
| SP 18-25 M          | II 230                    | 50               | 2        | 1,5  | 10,6 | 162   | 151 | 146 | 140 | 134 | 128 | 121 | 106 | 86  | 58  | 1048                      |
| SP 18-25 T          | III 230                   | -                |          |      | 6,9  |   |     |     |     |     |     |     |     |     |     | 1019                      |
| SP 18-25 T          | III 400                   | -                |          |      | 4,0  |   |     |     |     |     |     |     |     |     |     | 1019                      |
| SP 18-33 T          | III 230                   | -                | 3        | 2,2  | 10,2 | 212   | 197 | 189 | 180 | 173 | 168 | 160 | 138 | 109 | 73  | 1239                      |
| SP 18-33 T          | III 400                   | -                |          |      | 5,9  |   |     |     |     |     |     |     |     |     |     | 1239                      |
| SP 18-45 T          | III 230                   | -                | 4        | 3    | 13,5 | 292   | 271 | 261 | 250 | 243 | 233 | 223 | 195 | 153 | 107 | 1642                      |
| SP 18-45 T          | III 400                   | -                |          |      | 7,8  |   |     |     |     |     |     |     |     |     |     | 1642                      |

Ø Impulsión: 1 1/4" - Outlet Ø: 1 1/4"

| Tipo<br><i>Type</i> | Voltaje<br><i>Voltage</i> | Cond.<br>$\mu$ F | Potencia |      | "A"  | Caudal m <sup>3</sup> /h / Flow m <sup>3</sup> /h |     |     |     |     |     |     |     |     |     | Longitud<br><i>Length</i> |
|---------------------|---------------------------|------------------|----------|------|------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------------------------|
|                     |                           |                  | HP       | KW   |      | 0   | 1,8 | 2,1 | 2,4 | 3   | 3,6 | 4,2 | 4,8 | 5,4 | 6   |                           |
|                     |                           |                  |          |      |      | Altura m.c.a. / Height w.c.m.                     |     |     |     |     |     |     |     |     |     |                           |
| SP 25-6 M           | II 230                    | 20               | 0,75     | 0,55 | 4,3  | 38  | 34  | 33  | 32  | 30  | 28  | 26  | 24  | 21  | 17  | 564                       |
| SP 25-6 T           | III 230                   | -                |          |      | 2,8  |   |     |     |     |     |     |     |     |     |     | 535                       |
| SP 25-6 T           | III 400                   | -                |          |      | 1,6  |   |     |     |     |     |     |     |     |     |     | 535                       |
| SP 25-8 M           | II 230                    | 35               | 1        | 0,75 | 5,7  | 57  | 44  | 43  | 42  | 40  | 38  | 35  | 32  | 28  | 22  | 633                       |
| SP 25-8 T           | III 230                   | -                |          |      | 3,7  |   |     |     |     |     |     |     |     |     |     | 606                       |
| SP 25-8 T           | III 400                   | -                |          |      | 2,1  |   |     |     |     |     |     |     |     |     |     | 606                       |
| SP 25-12 M          | II 230                    | 40               | 1,5      | 1,1  | 8,6  | 75  | 68  | 66  | 65  | 63  | 58  | 53  | 49  | 42  | 36  | 746                       |
| SP 25-12 T          | III 230                   | -                |          |      | 5,2  |   |     |     |     |     |     |     |     |     |     | 718                       |
| SP 25-12 T          | III 400                   | -                |          |      | 3,0  |   |     |     |     |     |     |     |     |     |     | 718                       |
| SP 25-17 M          | II 230                    | 50               | 2        | 1,5  | 10,6 | 106   | 95  | 92  | 90  | 85  | 79  | 73  | 67  | 58  | 50  | 880                       |
| SP 25-17 T          | III 230                   | -                |          |      | 6,9  |   |     |     |     |     |     |     |     |     |     | 851                       |
| SP 25-17 T          | III 400                   | -                |          |      | 4,0  |   |     |     |     |     |     |     |     |     |     | 851                       |
| SP 25-21 T          | III 230                   | -                | 3        | 2,2  | 10,2 | 131   | 117 | 114 | 110 | 103 | 98  | 90  | 82  | 72  | 62  | 964                       |
| SP 25-21 T          | III 400                   | -                |          |      | 5,9  |   |     |     |     |     |     |     |     |     |     | 964                       |
| SP 25-25 T          | III 230                   | -                | 3        | 2,2  | 10,2 | 156   | 140 | 136 | 131 | 127 | 118 | 110 | 100 | 90  | 74  | 1048                      |
| SP 25-25 T          | III 400                   | -                |          |      | 5,9  |   |     |     |     |     |     |     |     |     |     | 1048                      |
| SP 25-33 T          | III 230                   | -                | 4        | 3    | 13,5 | 206   | 182 | 178 | 173 | 165 | 155 | 142 | 130 | 115 | 98  | 1375                      |
| SP 25-33 T          | III 400                   | -                |          |      | 7,8  |   |     |     |     |     |     |     |     |     |     | 1375                      |
| SP 25-44 T          | III 230                   | -                | 5,5      | 4    | 17,3 | 275   | 244 | 239 | 232 | 221 | 208 | 191 | 174 | 155 | 130 | 1682                      |
| SP 25-44 T          | III 400                   | -                |          |      | 10,0 |   |     |     |     |     |     |     |     |     |     | 1682                      |

Ø Impulsión: 1 1/2" - Outlet Ø: 1 1/2"



## SP en acero inoxidable AISI-304

| Tipo<br>Type | Voltaje<br>Voltage | Cond.<br>µF | Potencia |     | "A"  | Caudal m³/h / Flow m³/h       |      |     |     |     |     |     |     |     |    | Longitud<br>Lenght |      |      |      |
|--------------|--------------------|-------------|----------|-----|------|-------------------------------|------|-----|-----|-----|-----|-----|-----|-----|----|--------------------|------|------|------|
|              |                    |             | HP       | KW  |      | 2,4                           | 3    | 3,6 | 4,2 | 4,8 | 5,4 | 6   | 8,4 | 9,6 | 11 |                    |      |      |      |
|              |                    |             |          |     |      | Altura m.c.a. / Height w.c.m. |      |     |     |     |     |     |     |     |    |                    |      |      |      |
| SP 40-07 M   | II 230             | 40          |          |     | 8,6  |                               |      |     |     |     |     |     |     |     |    |                    |      | 823  |      |
| SP 40-07 T   | III 230            | -           | 1,5      | 1,1 | 5,2  | 36                            | 34   | 34  | 33  | 33  | 32  | 32  | 25  | 20  | 15 |                    | 795  |      |      |
| SP 40-07 T   | III 400            | -           |          |     | 3,0  |                               |      |     |     |     |     |     |     |     |    |                    |      |      | 795  |
| SP 40-10 M   | II 230             | 50          |          |     |      |                               | 10,6 |     |     |     |     |     |     |     |    |                    |      |      | 977  |
| SP 40-10 T   | III 230            | -           | 2        | 1,5 | 6,9  | 52                            | 51   | 51  | 50  | 50  | 49  | 49  | 40  | 34  | 27 |                    | 949  |      |      |
| SP 40-10 T   | III 400            | -           |          |     | 4,0  |                               |      |     |     |     |     |     |     |     |    |                    |      | 949  |      |
| SP 40-15 T   | III 230            | -           |          |     | 3    | 2,2                           | 10,2 | 79  | 77  | 76  | 75  | 73  | 72  | 70  | 60 | 50                 | 40   |      | 1188 |
| SP 40-15 T   | III 400            | -           | 5,9      |     |      |                               |      |     |     |     |     |     |     |     |    |                    |      | 1188 |      |
| SP 40-18 T   | III 230            | -           | 4        | 3   | 13,5 | 91                            | 89   | 88  | 87  | 85  | 83  | 81  | 70  | 60  | 48 |                    | 1465 |      |      |
| SP 40-18 T   | III 400            | -           |          |     | 7,8  |                               |      |     |     |     |     |     |     |     |    |                    |      | 1465 |      |
| SP 40-25 T   | III 230            | -           | 5,5      | 4   | 17,3 | 131                           | 128  | 126 | 122 | 119 | 116 | 113 | 97  | 81  | 61 |                    | 1835 |      |      |
| SP 40-25 T   | III 400            | -           |          |     | 10,0 |                               |      |     |     |     |     |     |     |     |    |                    |      | 1835 |      |

Ø Impulsión: 2" - Outlet Ø: 2"

| Tipo<br>Type | Voltaje<br>Voltage | Cond.<br>µF | Potencia |     | "A"  | Caudal m³/h / Flow m³/h       |     |     |     |     |     |     |     |    |    | Longitud<br>Lenght |      |
|--------------|--------------------|-------------|----------|-----|------|-------------------------------|-----|-----|-----|-----|-----|-----|-----|----|----|--------------------|------|
|              |                    |             | HP       | KW  |      | 6                             | 7,2 | 8,4 | 9,6 | 11  | 12  | 13  | 14  | 15 | 18 |                    |      |
|              |                    |             |          |     |      | Altura m.c.a. / Height w.c.m. |     |     |     |     |     |     |     |    |    |                    |      |
| SP 70-07 T   | III 230            | -           | 3        | 2,2 | 10,2 |                               |     |     |     |     |     |     |     |    |    |                    | 991  |
| SP 70-07 T   | III 400            | -           |          |     | 5,9  | 40                            | 39  | 37  | 36  | 35  | 32  | 30  | 28  | 26 | 18 |                    | 991  |
| SP 70-10 T   | III 230            | -           | 4        | 3   | 13,5 | 58                            | 56  | 54  | 52  | 50  | 46  | 43  | 40  | 38 | 26 |                    | 1337 |
| SP 70-10 T   | III 400            | -           |          |     | 7,8  |                               |     |     |     |     |     |     |     |    |    |                    |      |
| SP 70-13 T   | III 230            | -           | 5,5      | 4   | 17,3 | 75                            | 72  | 70  | 67  | 65  | 60  | 57  | 53  | 49 | 34 |                    | 1608 |
| SP 70-13 T   | III 400            | -           |          |     | 10,0 |                               |     |     |     |     |     |     |     |    |    |                    |      |
| SP 70-18 T   | III 230            | -           | 7,5      | 5,5 | 23,7 | 104                           | 100 | 97  | 93  | 90  | 83  | 78  | 73  | 68 | 46 |                    | 2048 |
| SP 70-18 T   | III 400            | -           |          |     | 13,7 |                               |     |     |     |     |     |     |     |    |    |                    |      |
| SP 70-25 T   | III 230            | -           | 10       | 7,5 | -    | 145                           | 140 | 135 | 130 | 125 | 115 | 109 | 102 | 95 | 65 |                    | 2579 |
| SP 70-25 T   | III 400            | -           |          |     | 18,4 |                               |     |     |     |     |     |     |     |    |    |                    |      |

Ø Impulsión: 2" - Outlet Ø: 2"

# AS

radiales



### Aplicaciones:

Bombas sumergibles para pozos de 6" mínimo, muy adecuadas para aplicaciones civiles o industriales, en riegos por aspersión, comunidades, urbanizaciones, etc...

### Características constructivas:

Bombas sumergibles con turbinas flotantes y difusores en Noryl. Cada elemento incorpora anillos de roce en acero inoxidable.

Eje, camisa, manguito, cubrecable, rejilla aspiración aros y tornillos son en acero inoxidable.

Cuerpo de aspiración e impulsión en acero inoxidable.

Válvula de retención incorporada.

**Máxima cantidad de arena: 50 g/m<sup>3</sup>**

**Límite temperatura agua: +10° C a + 40° C**

### Motor:

**Posibilidad de montaje con motor FRANKLIN y con motor SACI.**

Para potencias de hasta 10 CV el motor es de 4". A partir de 10 CV los motores son de 6" y en todos los casos debe especificarse el voltaje requerido.



### Applications:

*Submersible pumps for 6" wells minimum, highly suitable for civil and industrial installations, in aspersion irrigation, communities, housing estates, etc.*

### Constructive characteristics:

*Submersible pumps with floating impellers and diffusers in Noryl. Each element includes contact rings in stainless steel.*

*Shaft, cladding, sleeve, cable cover, suction grille, rings and bolts in stainless steel.*

*Suction and drive body in stainless steel. Built-in stainless steel retention valve.*

**Maximum amount of sand: 50 g/m<sup>3</sup>**

**Maximum water temperature: + 10° C to + 40° C.**

### Motor:

**Possibility to install with FRANKLIN or with SACI motor.**

*For powers of up to 10 HP, the motor is 4". From 10 HP, the motors are 6" and, in all cases, must adapt to the required voltage.*

| Tipo<br>Type | Potencia |     | "A"        |            | Caudal m <sup>3</sup> /h / Flow m <sup>3</sup> /h |     |     |      |     |      |     |     | Ø<br>Motor | Longitud<br>Lenght |
|--------------|----------|-----|------------|------------|---|-----|-----|------|-----|------|-----|-----|------------|--------------------|
|              | HP       | KW  | III<br>230 | III<br>400 | 0   | 7,2 | 8,4 | 10,6 | 12  | 13,2 | 15  | 18  |            |                    |
|              |          |     |            |            | Altura m.c.a. / Height w.c.m.                     |     |     |      |     |      |     |     |            |                    |
| AS 6/75-6    | 5,5      | 4   | 16,4       | 9,5        | 90  | 83  | 80  | 72   | 67  | 62   | 51  | 30  | 4"         | 1161               |
| AS 6/75-9    | 7,5      | 5,5 | 22,1       | 12,8       | 135   | 127 | 119 | 108  | 100 | 92   | 78  | 45  |            | 1389               |
| AS 6/75-12   | 10       | 7,5 | 28,2       | 16,3       | 183   | 173 | 164 | 149  | 140 | 130  | 110 | 66  | 6"         | 1466               |
| AS 6/75-15   | 12,5     | 9,2 | 36,4       | 21         | 230   | 210 | 204 | 186  | 175 | 160  | 136 | 80  |            | 1612               |
| AS 6/75-18   | 15       | 11  | 41,5       | 24         | 276   | 250 | 235 | 220  | 207 | 190  | 160 | 96  |            | 1759               |
| AS 6/75-24   | 20       | 15  | 55         | 32         | 368   | 335 | 322 | 290  | 272 | 250  | 214 | 130 |            | 2052               |

Ø impulsión: 3" - Outlet Ø : 3"

| Tipo<br>Type | Potencia |      | "A"        |            | Caudal m <sup>3</sup> /h / Flow m <sup>3</sup> /h |     |     |     |     |     |     |    | Ø<br>Motor | Longitud<br>Lenght |
|--------------|----------|------|------------|------------|---|-----|-----|-----|-----|-----|-----|----|------------|--------------------|
|              | HP       | KW   | III<br>230 | III<br>400 | 0   | 3   | 6   | 12  | 18  | 24  | 30  | 36 |            |                    |
|              |          |      |            |            | Altura m.c.a. / Height w.c.m.                     |     |     |     |     |     |     |    |            |                    |
| AS 6/135-4   | 5,5      | 4    | 16,4       | 9,5        | 55  | 53  | 51  | 47  | 40  | 32  | 22  | 10 | 4"         | 1161               |
| AS 6/135-6   | 7,5      | 5,5  | 22,1       | 12,8       | 85  | 81  | 76  | 70  | 62  | 50  | 33  | 15 |            | 1389               |
| AS 6/135-8   | 10       | 7,5  | 28,2       | 16,3       | 117   | 112 | 108 | 96  | 87  | 70  | 50  | 25 | 6"         | 1466               |
| AS 6/135-10  | 12,5     | 9,2  | 36,4       | 21         | 150   | 143 | 135 | 120 | 100 | 93  | 60  | 32 |            | 1612               |
| AS 6/135-12  | 15       | 11   | 41,5       | 24         | 175   | 168 | 161 | 147 | 130 | 107 | 73  | 38 |            | 1759               |
| AS 6/135-16  | 20       | 15   | 55         | 32         | 235   | 225 | 215 | 195 | 175 | 143 | 100 | 50 |            | 2052               |
| AS 6/135-20  | 25       | 18,5 | 69,2       | 40         | 294   | 282 | 270 | 245 | 216 | 180 | 125 | 67 | 2397       |                    |
| AS 6/135-24  | 30       | 22   | 81,2       | 47         | 350   | 337 | 325 | 297 | 265 | 221 | 151 | 80 | 2690       |                    |

Ø impulsión: 3" - Outlet Ø : 3"

| Tipo<br>Type | Potencia |      | "A"        |            | Caudal m <sup>3</sup> /h / Flow m <sup>3</sup> /h |     |     |     |     |     |    |    | Ø<br>Motor | Longitud<br>Lenght |
|--------------|----------|------|------------|------------|---|-----|-----|-----|-----|-----|----|----|------------|--------------------|
|              | HP       | KW   | III<br>230 | III<br>400 | 0   | 6   | 12  | 18  | 24  | 36  | 42 | 48 |            |                    |
|              |          |      |            |            | Altura m.c.a. / Height w.c.m.                     |     |     |     |     |     |    |    |            |                    |
| AS 6/180-3   | 5,5      | 4    | 16,4       | 9,5        | 45  | 43  | 40  | 38  | 35  | 24  | 16 | 8  | 4"         | 1113               |
| AS 6/180-4   | 7,5      | 5,5  | 22,1       | 12,8       | 60  | 57  | 53  | 50  | 46  | 31  | 21 | 11 |            | 1287               |
| AS 6/180-5   | 10       | 7,5  | 28,2       | 16,3       | 76  | 72  | 68  | 64  | 59  | 41  | 33 | 14 | 6"         | 1310               |
| AS 6/180-6   | 12,5     | 9,2  | 36,4       | 21         | 91  | 87  | 83  | 78  | 72  | 50  | 34 | 17 |            | 1402               |
| AS 6/180-8   | 15       | 11   | 41,5       | 24         | 121   | 115 | 109 | 103 | 96  | 67  | 47 | 26 |            | 1555               |
| AS 6/180-10  | 20       | 15   | 55         | 32         | 152   | 145 | 137 | 130 | 123 | 87  | 61 | 35 |            | 1740               |
| AS 6/180-13  | 25       | 18,5 | 69,2       | 40         | 197   | 189 | 180 | 168 | 155 | 110 | 75 | 40 | 1985       |                    |
| AS 6/180-15  | 30       | 22   | 81,2       | 47         | 227   | 214 | 200 | 190 | 180 | 128 | 89 | 50 | 2170       |                    |

Ø impulsión: 3" - Outlet Ø : 3"

| Tipo<br>Type | Potencia |      | "A"        |            | Caudal m <sup>3</sup> /h / Flow m <sup>3</sup> /h |     |     |     |     |     |    |    | Ø<br>Motor | Longitud<br>Lenght |
|--------------|----------|------|------------|------------|---|-----|-----|-----|-----|-----|----|----|------------|--------------------|
|              | HP       | KW   | III<br>230 | III<br>400 | 0   | 8   | 16  | 24  | 30  | 42  | 52 | 60 |            |                    |
|              |          |      |            |            | Altura m.c.a. / Height w.c.m.                     |     |     |     |     |     |    |    |            |                    |
| AS 6/220-3   | 7,5      | 5,5  | 22,1       | 12,8       | 37  | 36  | 35  | 32  | 28  | 20  | 14 | 7  | 4"         | 1227               |
| AS 6/220-4   | 10       | 7,5  | 28,2       | 16,3       | 50  | 49  | 47  | 43  | 38  | 27  | 25 | 12 |            | 1250               |
| AS 6/220-5   | 12,5     | 9,2  | 36,4       | 21         | 63  | 62  | 61  | 56  | 51  | 37  | 27 | 18 | 6"         | 1342               |
| AS 6/220-6   | 15       | 11   | 41,5       | 24         | 75  | 73  | 71  | 65  | 59  | 44  | 33 | 21 |            | 1435               |
| AS 6/220-9   | 20       | 15   | 55         | 32         | 114   | 112 | 110 | 100 | 89  | 66  | 50 | 33 |            | 1680               |
| AS 6/220-11  | 25       | 18,5 | 69,2       | 40         | 139   | 136 | 132 | 121 | 110 | 80  | 61 | 41 |            | 1865               |
| AS 6/220-14  | 30       | 22   | 81,2       | 47         | 176   | 172 | 167 | 153 | 138 | 101 | 78 | 54 | 2110       |                    |

Ø impulsión: 3" - Outlet Ø : 3"

# SX

semi-axiales  
semiaxial



**Aplicaciones:**

Electrobombas sumergibles de elevado rendimiento y máxima fiabilidad, aptas para grandes suministros, como pueden ser abastecimientos municipales, obras públicas, usos industriales, grandes riegos, etc...

**Características constructivas:**

Cuerpo impulsión, soporte bomba motor, difusores, turbinas y válvula de retención en acero inoxidable AISI-304 de elevada resistencia. Todos los cojinetes y aros en goma anti-arena para asegurar buena resistencia al desgaste y abrasión. Rejilla aspiración y cubrecable en acero inoxidable. Todas las bombas están diseñadas y preparadas para funcionar en uso continuo con cargas hidroestáticas medianas y elevadas.

- TEMPERATURA MÁXIMA AGUA:** 45° C.
- MÁXIMA CANTIDAD DE ARENA EN EL AGUA:** 50g/m<sup>3</sup>
- TIEMPO MÁXIMO FUNCIONANDO CON BOCA CERRADA:** 4 min.

LAS PRESTACIONES SON GARANTIZADAS SEGÚN LOS LÍMITES DE LAS NORMAS ISO 2548 CLASE C.

**Motor:**

Estator hermético en acero inoxidable, acoplamiento internacional tipo Nema. No necesita mantenimiento, todos los cojinetes incluyendo el axial están lubricados por agua o aceite, según modelo de motor.



**Applications:**

Submersible electro pumps with high output and maximum reliability, suitable for large supplies such as municipal supplies, public works, industrial uses, large irrigation, etc.

**Constructive characteristics:**

Drive body, pump motor support, diffusers, impellers and retention valve in high strength stainless steel AISI-304. All bearings and rings in sand resistant rubber to ensure good resistance to wear and abrasion. Suction grille and cable cover in Stainless Steel. All pumps are designed and built to work in continuous use with medium and high hydrostatic loads.

- MAXIMUM WATER TEMPERATURE:** 45° C
- MAXIMUM AMOUNT OF SAND IN THE WATER:** 50 g/m<sup>3</sup>
- MAXIMUM TIME WORKING WITH MOUTH CLOSED:** 4 min

THE PERFORMANCES ARE GUARANTEED ACCORDING TO THE LIMITS OF THE ISO 2548 STANDARD CLASS C.

**Motor:**

Hermetic stator in stainless steel, international NEMA coupling, no need for maintenance, all bearings, including the axial, are water or oil lubricated, depending the type of the motor.

| Tipo<br>Type     | Potencia |      | Caudal m <sup>3</sup> /h / Flow m <sup>3</sup> /h |     |     |      |      |      |      |      |     |      |      |      |
|------------------|----------|------|---|-----|-----|------|------|------|------|------|-----|------|------|------|
|                  | HP       | KW   | 0   | 7,2 | 9   | 10,8 | 12,6 | 14,4 | 15,3 | 16,2 | 18  | 18,9 | 19,8 | 21,6 |
|                  |          |      | Altura m.c.a. / Height w.c.m.                     |     |     |      |      |      |      |      |     |      |      |      |
| <b>SX 617-06</b> | 5,5      | 4    | 68  | 65  | 64  | 61   | 58   | 55   | 52   | 50   | 45  | 42   | 39   | 33   |
| <b>SX 617-08</b> | 7,5      | 5,5  | 90  | 87  | 85  | 82   | 78   | 73   | 70   | 67   | 60  | 56   | 52   | 44   |
| <b>SX 617-10</b> | 7,5      | 5,5  | 113   | 109 | 106 | 102  | 97   | 91   | 87   | 84   | 75  | 70   | 65   | 54   |
| <b>SX 617-11</b> | 10       | 7,5  | 124   | 120 | 117 | 113  | 107  | 100  | 96   | 92   | 82  | 77   | 71   | 60   |
| <b>SX 617-13</b> | 10       | 7,5  | 147   | 142 | 138 | 133  | 127  | 118  | 114  | 109  | 97  | 91   | 84   | 71   |
| <b>SX 617-15</b> | 12,5     | 9,3  | 169   | 163 | 159 | 154  | 146  | 137  | 131  | 125  | 112 | 105  | 97   | 82   |
| <b>SX 617-17</b> | 15       | 11   | 192   | 185 | 181 | 174  | 166  | 155  | 149  | 142  | 127 | 119  | 110  | 92   |
| <b>SX 617-18</b> | 15       | 11   | 203   | 196 | 191 | 184  | 175  | 164  | 157  | 150  | 134 | 126  | 117  | 98   |
| <b>SX 617-20</b> | 15       | 11   | 226   | 218 | 212 | 205  | 195  | 182  | 175  | 167  | 149 | 140  | 130  | 109  |
| <b>SX 617-24</b> | 20       | 15   | 271   | 262 | 255 | 246  | 234  | 219  | 210  | 201  | 179 | 168  | 156  | 131  |
| <b>SX 617-27</b> | 20       | 15   | 305   | 294 | 287 | 277  | 263  | 246  | 236  | 226  | 202 | 189  | 175  | 147  |
| <b>SX 617-29</b> | 25       | 18,5 | 327   | 316 | 308 | 297  | 283  | 264  | 254  | 242  | 217 | 203  | 188  | 158  |
| <b>SX 617-33</b> | 25       | 18,5 | 372   | 360 | 351 | 338  | 321  | 301  | 289  | 276  | 247 | 231  | 214  | 180  |
| <b>SX 617-36</b> | 30       | 22   | 406   | 392 | 382 | 369  | 351  | 328  | 315  | 301  | 269 | 252  | 234  | 196  |
| <b>SX 617-40</b> | 30       | 22   | 451   | 436 | 425 | 410  | 390  | 365  | 350  | 334  | 299 | 280  | 260  | 218  |
| <b>SX 617-48</b> | 35       | 26   | 542   | 523 | 510 | 492  | 468  | 437  | 420  | 401  | 359 | 336  | 312  | 261  |
| <b>SX 617-53</b> | 40       | 30   | 598   | 578 | 563 | 543  | 516  | 483  | 463  | 443  | 396 | 371  | 344  | 288  |
| <b>SX 617-5</b>  | 50       | 37   | 621   | 599 | 584 | 563  | 536  | 501  | 481  | 460  | 411 | 385  | 357  | 299  |

Ø Impulsión: 2 1/2" - Outlet Ø: 2 1/2"

| Tipo<br>Type     | Potencia |      | Caudal m <sup>3</sup> /h / Flow m <sup>3</sup> /h |      |      |     |      |      |     |      |      |     |      |      |
|------------------|----------|------|---|------|------|-----|------|------|-----|------|------|-----|------|------|
|                  | HP       | KW   | 0   | 10,8 | 14,4 | 18  | 21,6 | 25,2 | 27  | 28,8 | 32,4 | 36  | 39,6 | 43,2 |
|                  |          |      | Altura m.c.a. / Height w.c.m.                     |      |      |     |      |      |     |      |      |     |      |      |
| <b>SX 630-04</b> | 5,5      | 4    | 45  | 42   | 41   | 39  | 37   | 34   | 33  | 31   | 27   | 23  | 17   | 11   |
| <b>SX 630-06</b> | 7,5      | 5,5  | 68  | 64   | 61   | 59  | 55   | 51   | 49  | 47   | 41   | 34  | 26   | 17   |
| <b>SX 630-08</b> | 10       | 7,5  | 90  | 85   | 82   | 78  | 74   | 69   | 66  | 62   | 54   | 45  | 35   | 23   |
| <b>SX 630-11</b> | 12,5     | 9,3  | 124   | 117  | 113  | 108 | 102  | 94   | 90  | 85   | 75   | 62  | 48   | 32   |
| <b>SX 630-13</b> | 15       | 11   | 147   | 138  | 133  | 127 | 120  | 111  | 106 | 101  | 88   | 75  | 57   | 37   |
| <b>SX 630-15</b> | 17,5     | 13   | 170   | 159  | 154  | 147 | 139  | 129  | 123 | 116  | 102  | 85  | 66   | 43   |
| <b>SX 630-17</b> | 20       | 15   | 192   | 180  | 174  | 167 | 157  | 146  | 139 | 132  | 115  | 96  | 74   | 49   |
| <b>SX 630-19</b> | 25       | 18,5 | 215   | 202  | 195  | 186 | 176  | 163  | 156 | 147  | 129  | 107 | 83   | 54   |
| <b>SX 630-21</b> | 25       | 18,5 | 237   | 223  | 215  | 206 | 194  | 180  | 172 | 163  | 143  | 119 | 92   | 60   |
| <b>SX 630-23</b> | 30       | 22   | 260   | 244  | 236  | 225 | 213  | 197  | 188 | 178  | 156  | 130 | 101  | 66   |
| <b>SX 630-26</b> | 30       | 22   | 294   | 276  | 266  | 255 | 240  | 223  | 213 | 202  | 177  | 147 | 114  | 74   |
| <b>SX 630-28</b> | 35       | 26   | 316   | 297  | 287  | 274 | 259  | 240  | 229 | 217  | 190  | 158 | 122  | 80   |
| <b>SX 630-30</b> | 35       | 26   | 339   | 318  | 307  | 294 | 277  | 257  | 246 | 233  | 204  | 170 | 131  | 86   |
| <b>SX 630-32</b> | 40       | 30   | 362   | 340  | 328  | 314 | 296  | 274  | 262 | 248  | 217  | 181 | 140  | 92   |
| <b>SX 630-35</b> | 40       | 30   | 396   | 371  | 359  | 343 | 324  | 300  | 287 | 271  | 238  | 198 | 153  | 100  |
| <b>SX 630-39</b> | 50       | 37   | 441   | 414  | 400  | 382 | 361  | 334  | 319 | 302  | 265  | 221 | 170  | 112  |
| <b>SX 630-43</b> | 50       | 37   | 486   | 456  | 441  | 422 | 398  | 368  | 352 | 333  | 292  | 243 | 188  | 123  |

Ø Impulsión: 3" - Outlet Ø: 3"

# SX semi-axiales

| Tipo<br>Type     | Potencia |      | Caudal m <sup>3</sup> /h / Flow m <sup>3</sup> /h |      |      |     |      |      |      |      |     |      |      |      |
|------------------|----------|------|---|------|------|-----|------|------|------|------|-----|------|------|------|
|                  | HP       | KW   | 0   | 18,9 | 21,6 | 27  | 32,4 | 37,8 | 43,2 | 48,6 | 54  | 59,4 | 62,1 | 64,8 |
|                  |          |      | Altura m.c.a. / Height w.c.m.                     |      |      |     |      |      |      |      |     |      |      |      |
| <b>SX 646-03</b> | 7,5      | 5,5  | 46  | 40   | 38   | 35  | 32   | 30   | 28   | 25   | 22  | 17   | 13   | 9    |
| <b>SX 646-05</b> | 10       | 7,5  | 77  | 66   | 64   | 59  | 54   | 50   | 46   | 42   | 37  | 28   | 22   | 15   |
| <b>SX 646-06</b> | 12,5     | 9,3  | 92  | 80   | 76   | 70  | 65   | 60   | 56   | 50   | 44  | 33   | 27   | 18   |
| <b>SX 646-07</b> | 15       | 11   | 107   | 93   | 89   | 82  | 76   | 70   | 65   | 59   | 51  | 39   | 31   | 21   |
| <b>SX 646-08</b> | 17,5     | 13   | 122   | 106  | 102  | 94  | 87   | 80   | 74   | 67   | 58  | 44   | 35   | 24   |
| <b>SX 646-09</b> | 20       | 15   | 138   | 119  | 115  | 106 | 97   | 90   | 83   | 76   | 66  | 50   | 40   | 27   |
| <b>SX 646-10</b> | 20       | 15   | 153   | 133  | 127  | 117 | 108  | 100  | 93   | 84   | 73  | 56   | 44   | 30   |
| <b>SX 646-11</b> | 25       | 18,5 | 168   | 146  | 140  | 129 | 119  | 110  | 102  | 93   | 80  | 61   | 49   | 32   |
| <b>SX 646-12</b> | 25       | 18,5 | 184   | 159  | 153  | 141 | 130  | 120  | 111  | 101  | 88  | 67   | 53   | 35   |
| <b>SX 646-14</b> | 30       | 22   | 214   | 186  | 178  | 164 | 151  | 140  | 130  | 118  | 102 | 78   | 62   | 41   |
| <b>SX 646-15</b> | 30       | 22   | 230   | 199  | 191  | 176 | 162  | 150  | 139  | 126  | 110 | 83   | 67   | 44   |
| <b>SX 646-16</b> | 35       | 27   | 245   | 212  | 204  | 188 | 173  | 160  | 148  | 135  | 117 | 89   | 71   | 47   |
| <b>SX 646-17</b> | 35       | 27   | 260   | 266  | 217  | 200 | 184  | 170  | 157  | 143  | 124 | 94   | 75   | 50   |
| <b>SX 646-18</b> | 40       | 30   | 276   | 239  | 229  | 211 | 195  | 180  | 167  | 151  | 131 | 100  | 80   | 53   |
| <b>SX 646-20</b> | 40       | 30   | 306   | 265  | 255  | 235 | 216  | 200  | 185  | 168  | 146 | 111  | 89   | 59   |
| <b>SX 646-22</b> | 50       | 37   | 337   | 292  | 280  | 258 | 238  | 220  | 204  | 185  | 161 | 122  | 98   | 65   |
| <b>SX 646-24</b> | 50       | 37   | 367   | 318  | 306  | 282 | 260  | 240  | 222  | 202  | 175 | 133  | 106  | 71   |

Ø Impulsión: 4" - Outlet Ø: 4"

| Tipo<br>Type     | Potencia |      | Caudal m <sup>3</sup> /h / Flow m <sup>3</sup> /h |     |      |      |     |      |      |     |      |      |      |    |
|------------------|----------|------|---|-----|------|------|-----|------|------|-----|------|------|------|----|
|                  | HP       | KW   | 0   | 18  | 21,6 | 28,8 | 36  | 43,2 | 50,4 | 54  | 57,6 | 61,2 | 64,8 | 72 |
|                  |          |      | Altura m.c.a. / Height w.c.m.                     |     |      |      |     |      |      |     |      |      |      |    |
| <b>SX 660-02</b> | 5,5      | 4    | 27  | 25  | 24   | 23   | 21  | 19   | 18   | 17  | 16   | 15   | 13   | 9  |
| <b>SX 660-03</b> | 7,5      | 5,5  | 41  | 38  | 37   | 34   | 31  | 29   | 27   | 25  | 24   | 22   | 20   | 14 |
| <b>SX 660-04</b> | 10       | 7,5  | 55  | 51  | 49   | 45   | 42  | 39   | 36   | 34  | 32   | 29   | 26   | 18 |
| <b>SX 660-05</b> | 12,5     | 9,3  | 68  | 63  | 61   | 57   | 52  | 48   | 44   | 42  | 40   | 37   | 33   | 23 |
| <b>SX 660-06</b> | 15       | 11   | 82  | 76  | 73   | 68   | 63  | 58   | 53   | 51  | 47   | 44   | 39   | 27 |
| <b>SX 660-07</b> | 17,5     | 13   | 95  | 88  | 86   | 79   | 73  | 68   | 62   | 59  | 55   | 51   | 46   | 32 |
| <b>SX 660-08</b> | 20       | 15   | 109   | 101 | 98   | 91   | 84  | 78   | 71   | 67  | 63   | 58   | 52   | 36 |
| <b>SX 660-09</b> | 25       | 18,5 | 123   | 114 | 110  | 102  | 94  | 87   | 80   | 76  | 71   | 66   | 59   | 41 |
| <b>SX 660-10</b> | 25       | 18,5 | 136   | 126 | 122  | 113  | 105 | 97   | 89   | 84  | 79   | 73   | 66   | 45 |
| <b>SX 660-11</b> | 30       | 22   | 150   | 139 | 134  | 125  | 115 | 107  | 98   | 93  | 87   | 80   | 72   | 50 |
| <b>SX 660-12</b> | 30       | 22   | 164   | 152 | 147  | 136  | 126 | 116  | 107  | 101 | 95   | 88   | 79   | 54 |
| <b>SX 660-13</b> | 35       | 26   | 177   | 164 | 159  | 147  | 136 | 126  | 116  | 110 | 103  | 95   | 85   | 59 |
| <b>SX 660-15</b> | 40       | 30   | 205   | 189 | 183  | 170  | 157 | 145  | 133  | 127 | 119  | 110  | 98   | 68 |
| <b>SX 660-17</b> | 40       | 30   | 232   | 215 | 208  | 193  | 178 | 165  | 151  | 143 | 135  | 124  | 112  | 77 |
| <b>SX 660-18</b> | 50       | 37   | 246   | 227 | 220  | 204  | 189 | 175  | 160  | 152 | 142  | 132  | 118  | 81 |
| <b>SX 660-19</b> | 50       | 37   | 259   | 240 | 232  | 215  | 199 | 184  | 169  | 160 | 150  | 139  | 125  | 86 |
| <b>SX 660-20</b> | 50       | 37   | 273   | 253 | 244  | 227  | 210 | 194  | 178  | 169 | 158  | 146  | 131  | 90 |
| <b>SX 660-21</b> | 50       | 37   | 286   | 265 | 257  | 238  | 220 | 204  | 187  | 177 | 166  | 154  | 138  | 95 |

Ø Impulsión: 4" - Outlet Ø: 4"

## SX semi-axiales

| Tipo<br>Type     | Potencia |     | Caudal m <sup>3</sup> /h / Flow m <sup>3</sup> /h |     |     |     |     |     |     |     |     |
|------------------|----------|-----|---|-----|-----|-----|-----|-----|-----|-----|-----|
|                  | HP       | KW  | 0   | 20  | 40  | 60  | 70  | 80  | 90  | 100 | 110 |
|                  |          |     | Altura m.c.a. / Height w.c.m.                     |     |     |     |     |     |     |     |     |
| <b>SX 896-01</b> | 7,5      | 5,5 | 25  | 24  | 21  | 19  | 18  | 17  | 16  | 15  | 13  |
| <b>SX 896-02</b> | 15       | 11  | 49  | 46  | 41  | 36  | 34  | 33  | 32  | 28  | 25  |
| <b>SX 896-03</b> | 20       | 15  | 74  | 70  | 62  | 55  | 52  | 50  | 47  | 43  | 37  |
| <b>SX 896-04</b> | 30       | 22  | 98  | 93  | 82  | 74  | 70  | 66  | 63  | 57  | 50  |
| <b>SX 896-05</b> | 40       | 30  | 123   | 117 | 103 | 91  | 87  | 82  | 77  | 72  | 62  |
| <b>SX 896-06</b> | 50       | 37  | 147   | 139 | 123 | 110 | 104 | 99  | 93  | 86  | 74  |
| <b>SX 896-07</b> | 50       | 37  | 172   | 163 | 145 | 128 | 122 | 116 | 109 | 100 | 87  |
| <b>SX 896-08</b> | 60       | 45  | 196   | 186 | 166 | 146 | 139 | 132 | 124 | 115 | 99  |
| <b>SX 896-09</b> | 60       | 45  | 221   | 210 | 186 | 165 | 156 | 149 | 140 | 128 | 112 |
| <b>SX 896-10</b> | 75       | 55  | 245   | 232 | 207 | 183 | 173 | 165 | 156 | 143 | 124 |
| <b>SX 896-11</b> | 80       | 60  | 270   | 256 | 227 | 201 | 191 | 181 | 172 | 158 | 136 |
| <b>SX 896-12</b> | 90       | 67  | 294   | 279 | 248 | 220 | 209 | 198 | 187 | 172 | 149 |
| <b>SX 896-13</b> | 100      | 75  | 319   | 303 | 269 | 238 | 225 | 215 | 202 | 186 | 162 |
| <b>SX 896-14</b> | 100      | 75  | 343   | 325 | 289 | 256 | 243 | 231 | 218 | 200 | 173 |
| <b>SX 896-15</b> | 110      | 81  | 368   | 349 | 310 | 274 | 261 | 248 | 233 | 215 | 186 |
| <b>SX 896-17</b> | 125      | 92  | 417   | 396 | 351 | 311 | 295 | 280 | 265 | 243 | 211 |

Ø Impulsión: 5" - Outlet Ø: 5"

| Tipo<br>Type       | Potencia |     | Caudal m <sup>3</sup> /h / Flow m <sup>3</sup> /h |     |     |     |     |     |     |     |     |     |     |     |
|--------------------|----------|-----|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|                    | HP       | KW  | 0   | 36  | 58  | 72  | 94  | 101 | 108 | 115 | 130 | 144 | 158 | 173 |
|                    |          |     | Altura m.c.a. / Height w.c.m.                     |     |     |     |     |     |     |     |     |     |     |     |
| <b>SX 10126-01</b> | 15       | 11  | 31  | 30  | 28  | 27  | 25  | 25  | 24  | 24  | 22  | 19  | 17  | 13  |
| <b>SX 10126-02</b> | 30       | 22  | 63  | 60  | 57  | 55  | 51  | 49  | 48  | 46  | 42  | 38  | 32  | 25  |
| <b>SX 10126-03</b> | 50       | 37  | 94  | 89  | 85  | 81  | 76  | 74  | 72  | 70  | 64  | 57  | 49  | 39  |
| <b>SX 10126-04</b> | 60       | 45  | 125   | 120 | 114 | 109 | 102 | 99  | 95  | 92  | 85  | 75  | 65  | 52  |
| <b>SX 10126-05</b> | 75       | 55  | 157   | 149 | 142 | 136 | 126 | 123 | 120 | 116 | 106 | 95  | 81  | 65  |
| <b>SX 10126-06</b> | 90       | 67  | 188   | 179 | 171 | 164 | 152 | 148 | 143 | 138 | 127 | 114 | 98  | 77  |
| <b>SX 10126-07</b> | 100      | 75  | 221   | 209 | 189 | 191 | 177 | 172 | 168 | 162 | 149 | 133 | 114 | 90  |
| <b>SX 10126-08</b> | 125      | 93  | 252   | 238 | 226 | 218 | 203 | 197 | 191 | 184 | 170 | 152 | 130 | 104 |
| <b>SX 10126-09</b> | 150      | 110 | 283   | 269 | 255 | 245 | 228 | 221 | 215 | 208 | 191 | 171 | 147 | 117 |
| <b>SX 10126-10</b> | 150      | 110 | 315   | 298 | 283 | 272 | 254 | 246 | 239 | 231 | 213 | 190 | 163 | 129 |
| <b>SX 10126-11</b> | 175      | 129 | 346   | 328 | 312 | 300 | 279 | 271 | 263 | 254 | 233 | 209 | 178 | 142 |
| <b>SX 10126-12</b> | 175      | 129 | 377   | 358 | 340 | 327 | 304 | 296 | 287 | 277 | 255 | 228 | 195 | 155 |
| <b>SX 10126-13</b> | 200      | 147 | 409   | 387 | 368 | 354 | 330 | 320 | 311 | 300 | 276 | 247 | 212 | 169 |

Ø Impulsión: 6" - Outlet Ø: 6"

## SX semi-axiales

| Tipo<br>Type        | Potencia |     | Caudal m <sup>3</sup> /h / Flow m <sup>3</sup> /h |     |     |     |     |     |     |     |     |     |     |     |
|---------------------|----------|-----|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|                     | HP       | KW  | 0   | 36  | 54  | 72  | 90  | 108 | 126 | 144 | 162 | 180 | 198 | 216 |
|                     |          |     | Altura m.c.a. / Height w.c.m.                     |     |     |     |     |     |     |     |     |     |     |     |
| <b>SX 10160-01</b>  | 17,5     | 13  | 30  | 28  | 27  | 26  | 25  | 23  | 22  | 20  | 19  | 16  | 13  | 10  |
| <b>SX 10160-02B</b> | 25       | 19  | 46  | 44  | 42  | 40  | 38  | 36  | 34  | 31  | 29  | 25  | 21  | 15  |
| <b>SX 10160-02</b>  | 35       | 27  | 60  | 57  | 55  | 52  | 49  | 47  | 44  | 41  | 37  | 33  | 27  | 19  |
| <b>SX 10160-03B</b> | 40       | 30  | 77  | 73  | 70  | 67  | 63  | 60  | 56  | 52  | 48  | 42  | 34  | 24  |
| <b>SX 10160-03</b>  | 50       | 37  | 90  | 85  | 82  | 78  | 74  | 70  | 66  | 61  | 56  | 49  | 40  | 29  |
| <b>SX 10160-04</b>  | 60       | 45  | 120   | 114 | 109 | 104 | 98  | 93  | 87  | 81  | 74  | 65  | 53  | 38  |
| <b>SX 10160-05</b>  | 75       | 55  | 150   | 142 | 136 | 130 | 123 | 116 | 109 | 102 | 93  | 82  | 67  | 48  |
| <b>SX 10160-06B</b> | 80       | 60  | 162   | 154 | 147 | 140 | 133 | 126 | 118 | 110 | 100 | 88  | 72  | 51  |
| <b>SX 10160-06</b>  | 90       | 67  | 180   | 171 | 164 | 156 | 148 | 140 | 131 | 122 | 111 | 98  | 80  | 57  |
| <b>SX 10160-07B</b> | 100      | 75  | 195   | 185 | 177 | 169 | 160 | 151 | 142 | 132 | 121 | 106 | 87  | 66  |
| <b>SX 10160-07</b>  | 110      | 81  | 210   | 199 | 191 | 182 | 172 | 163 | 153 | 142 | 130 | 114 | 94  | 67  |
| <b>SX 10160-08</b>  | 125      | 92  | 240   | 228 | 218 | 208 | 197 | 186 | 175 | 163 | 148 | 131 | 107 | 76  |
| <b>SX 10160-09</b>  | 150      | 110 | 270   | 256 | 246 | 234 | 221 | 209 | 197 | 183 | 167 | 147 | 120 | 86  |
| <b>SX 10160-10</b>  | 150      | 110 | 300   | 285 | 273 | 260 | 246 | 233 | 219 | 203 | 185 | 163 | 134 | 95  |
| <b>SX 10160-11</b>  | 175      | 129 | 330   | 313 | 300 | 286 | 271 | 256 | 240 | 224 | 204 | 180 | 147 | 105 |
| <b>SX 10160-12</b>  | 200      | 147 | 360   | 342 | 327 | 312 | 295 | 279 | 262 | 244 | 222 | 196 | 160 | 114 |
| <b>SX 10160-13</b>  | 200      | 147 | 390   | 370 | 355 | 338 | 320 | 302 | 284 | 264 | 241 | 212 | 174 | 124 |

Ø Impulsión: 6" - Outlet Ø: 6"

| Tipo<br>Type         | Potencia |      | Caudal m <sup>3</sup> /h / Flow m <sup>3</sup> /h |     |     |     |     |     |     |     |     |
|----------------------|----------|------|---|-----|-----|-----|-----|-----|-----|-----|-----|
|                      | HP       | KW   | 0   | 100 | 140 | 180 | 200 | 220 | 240 | 260 | 290 |
|                      |          |      | Altura m.c.a. / Height w.c.m.                     |     |     |     |     |     |     |     |     |
| <b>SX 10210-01B</b>  | 20       | 15   | 28  | 25  | 22  | 20  | 19  | 18  | 16  | 15  | 11  |
| <b>SX 10210-01</b>   | 25       | 18,5 | 38  | 32  | 29  | 26  | 25  | 23  | 22  | 19  | 15  |
| <b>SX 10210-02B2</b> | 40       | 30   | 57  | 48  | 43  | 39  | 37  | 34  | 31  | 28  | 23  |
| <b>SX 10210-02</b>   | 50       | 37   | 75  | 65  | 58  | 52  | 49  | 46  | 42  | 38  | 30  |
| <b>SX 10210-03B3</b> | 60       | 45   | 91  | 77  | 70  | 63  | 59  | 55  | 51  | 46  | 36  |
| <b>SX 10210-03</b>   | 75       | 55   | 114   | 97  | 87  | 78  | 74  | 69  | 64  | 57  | 45  |
| <b>SX 10210-04B2</b> | 90       | 67   | 133   | 113 | 102 | 91  | 86  | 80  | 74  | 67  | 53  |
| <b>SX 10210-04</b>   | 100      | 75   | 152   | 128 | 117 | 104 | 98  | 92  | 85  | 76  | 60  |
| <b>SX 10210-05</b>   | 125      | 92   | 190   | 161 | 145 | 130 | 123 | 115 | 106 | 95  | 74  |
| <b>SX 10210-06</b>   | 150      | 110  | 227   | 193 | 174 | 157 | 147 | 138 | 127 | 115 | 90  |
| <b>SX 10210-07</b>   | 175      | 129  | 266   | 225 | 204 | 182 | 172 | 161 | 148 | 133 | 105 |
| <b>SX 10210-08</b>   | 200      | 150  | 304   | 258 | 232 | 209 | 197 | 184 | 170 | 153 | 120 |
| <b>SX 10210-09</b>   | 225      | 166  | 342   | 290 | 262 | 234 | 221 | 207 | 191 | 172 | 135 |
| <b>SX 10210-10</b>   | 250      | 185  | 379   | 322 | 291 | 261 | 246 | 230 | 212 | 191 | 150 |

Ø Impulsión: 6" - Outlet Ø: 6"



# FR

motores sumergibles 4", 6", 8" y 10"



## Aplicaciones:

Motores eléctricos FR para bombas sumergibles con acoplamiento de 4" y también de 6", 8" y 10".

Los motores de 4" contienen en su interior un baño de aceite líquido dieléctrico atóxico, apto para instalaciones de todo tipo, y especialmente indicado en instalaciones con tensión de red baja, y en instalaciones de depósito abierto, gracias a su fácil refrigeración. Disponen además de un diafragma que permite la compensación de la presión interior del motor con la del pozo.

Los motores de 6", 8" y 10" son todos rebobinables, y disponen de cojinetes radiales y axiales de doble sentido de giro lubricados por agua.

## Características constructivas:

- **Completamente en AISI-304 (4" - 6" - 8") y con tapa en fundición de hierro (10")**
- **Estator rebobinable.**
- **Acoplamiento standard NEMA.**
- Cable de alimentación con conector estanco.
- Máximo número de arranques: 40 arranques/hora (motores de 4").
- Inmersión máxima: 200 metros bajo el agua (motores de 4").
- Protección IP68, aislamiento clase F.
- Máxima temperatura del agua: 35° C.

Bajo pedido puede suministrarse con con ánodo de sacrificio.



## Applications:

Electrical motors FR type for submersible pumps with 4", and 6", 8" and 10" with NEMA coupling.

The 4" motors are filled with non toxic dielectric oil. This motor is suitable for all types of applications and specially recommended in installations with low net tension, and in tank pools, thanks to its easy cooling avility.

The 6", 8" and 10" motors are all rewindable, and equipped with radial and axial bearings of dual rotation, and water lubricated.

## Constructive characteristics:

- **Completely in AISI-304 (4" - 6" - 8") and with cast iron cover (10")**
- **Rewindable stator**
- **Standard NEMA coupling**
- Wire with resin filled connector
- Maximum number of starts: 40 per hour (only 4" motors)
- Maximum immersion: 200 meters under the water (only 4" motors)
- Protection IP68, Isolation class F
- Maximum water temperature: 35°C

Can be supplied with sacrificial anode on demand.

# FRANKLIN



### Aplicaciones:

Motores blindados fabricados según normas ISO 9001 en baño de agua, totalmente en acero inoxidable AISI-304 y con acoplamiento para bomba de tipo NEMA. Los motores de 4" monofásicos necesitan de condensador exterior.

Todos los motores se suministran con uno o dos tramos de cable en función del tipo de arranque del motor.

### Características constructivas:

Estátor encapsulado o rebobinable

Retén mecánico y protector para un mejor funcionamiento contra la arena.

Permite montaje tanto vertical como horizontal.

Motores de 6", 8" y 10" pueden solicitarse para arranque directo o para arranque estrella-triángulo

### Motor:

Motores de 4" encapsulados monofásicos (hasta 3CV) y trifásicos a 230V (hasta 7.5CV) ó 400V (hasta 10CV)

Motores de 6" encapsulados (hasta 60CV) o rebobinables (hasta 45CV)

Motores de 8" encapsulados (hasta 200CV) o rebobinables (hasta 125CV)

Motores de 10" rebobinables (hasta 250CV)

**Bajo demanda pueden solicitarse voltajes especiales y/o constructivamente en AISI-316.**



### Applications:

*Hermetic motors manufactured complying with DIN and ISO 9001 standards. Filled international NEMA coupling. Fully made in stainless steel 304. The 4" single phase motors require external capacitor.*

*All motors are supplied with one or two wires depending on the start mode.*

### Constructive characteristics:

*Encapsulated or rewindable stator.*

*Seal and protector for a better performance against sand.*

*Horizontal and vertical installation.*

*Motors from 6" to 10" can be supplied direct start or star delta.*



### Motor:

*Motors 4" encapsulated single phase (up to 3HP)*

*- Three phase 230V up to 7.5HP*

*- Three phase 230V up to 10HP*

*Motors 6" encapsulated up to 60HP and rewindable up to 45HP*

*Motors 8" encapsulated up to 200HP and rewindable up to 125HP*

*Motors 10" rewindable up to 250HP*

**On request, special voltages can be requested and / or constructively in AISI-316.**

# VORT

aguas fecales vórtex  
vortex fecal water



### Aplicaciones:

Bomba centrífuga sumergible idónea para el desagüe de aguas sucias y cargadas en general. Incorporan interruptor de nivel para su funcionamiento automático en versión monofásica.

### Características constructivas:

Cuerpo bomba, cuerpo motor, turbina y eje motor en acero inoxidable AISI-304. Doble sello mecánico y cámara intermedia de aceite atóxico. Equipada con 10 metros de cable.

### Motor:

A 2.850 r.p.m., asíncrono estanco con aislamiento clase F=155° C. y grado de protección IP-68, la refrigeración del motor se efectúa por el líquido en el cual está sumergida. Inmersión máxima 10 metros.



### Applications:

Submersible centrifugal pump in stainless steel that is ideal for draining dirty waters and waters that are generally loaded.

### Constructive characteristics:

Pump body, mechanical closing lid, filter, filter lid, shaft, motor housing, external housing and lid with handle in AISI 304 stainless steel.

Vortex Impeller in AISI 304 microfusion stainless steel  
Double mechanical seal with intermediate oil chamber.

### Motor:

At 2,850 r.p.m., asynchronous closed with isolation type F (155 ° C) IP-68 protection. Refrigeration of the motor through the liquid surrounding.

Maximum immersion 10 meters.

| Tipo<br>Type  | Potencia |      | "A"       |            | Altura m.c.a. / Height w.c.m.                     |    |    |     |    |     |    |    |    | Ø Paso Sólido | Ø Imp. |
|---------------|----------|------|-----------|------------|---|----|----|-----|----|-----|----|----|----|---------------|--------|
|               | HP       | KW   | II<br>230 | III<br>400 | 2   | 4  | 5  | 6   | 7  | 8   | 9  | 10 | 11 |               |        |
|               |          |      |           |            | Caudal m <sup>3</sup> /h / Flow m <sup>3</sup> /h |    |    |     |    |     |    |    |    |               |        |
| VORT 7 M Aut  | 0,75     | 0,55 | 4,2       | -          | 15  | 11 | 9  | 7,5 | 5  | 2,5 |    |    |    | 35            | 11/2"  |
| VORT 10 M Aut | 1        | 0,75 | 5,1       | -          | 26  | 21 | 16 | 14  | 8  | 0,5 |    |    |    | 50            | 2"     |
| VORT 15 M Aut | 1,5      | 1,1  | 8,3       | -          | 26  | 22 | 20 | 16  | 11 | 1   |    |    |    | 50            | 2"     |
| VORT 15 T     |          |      | -         | 2,8        |   |    |    |     |    |     |    |    |    |               |        |
| VORT 20 T     | 2        | 1,5  | -         | 3,6        | 32  | 29 | 27 | 24  | 20 | 16  | 10 | 1  | 50 | 2"            |        |

# COMPACTA

aguas fecales vórtex  
vortex fecal water



### Aplicaciones:

Las robustas y portátiles electrobombas de la serie compacta que incorporan turbina desplazada tipo Vortex están diseñadas específicamente para la evacuación de aguas cargadas que contengan gases o bien sólidos blandos en suspensión. Son ideales para su uso en fosas sépticas, industrias, hospitales, etc... Debe trabajar con el motor, al menos, parcialmente sumergido.

### Características constructivas:

Cuerpo bomba, carcasa motor, porta cojinetes y tapa motor en fundición de hierro GG25. Tornillería en acero inoxidable tipo A2. Juntas tóricas en nitrilo. Eje bomba en acero inoxidable AISI 420. Doble sello mecánico en cámara de aceite, de carbón-cerámica en el lado de motor, y de carburo de silicio en la parte de la turbina.

### Motor:

Asíncrono a 2.850 r.p.m. monofásico y trifásico, aislamiento clase F. Grado de protección IP-68 e incorpora motoprotector en el bobinado en las versiones monofásicas. Incorpora serie 10 mts. de cable H07 RNF. Temperatura máxima del agua en continuo + 40° C. Valores de Ph entre 6 y 11.

### Applications:

The robust, portable electropumps of the compact series that include a displaced Vortex type Impeller are specifically designed for evacuating loaded waters that contain soft solids in suspension. They are ideal for use in septic tanks, industries, hospitals, etc... Must work with motor partially immersed.

### Constructive characteristics:

Pump body, motor housing, bearing holder and motor lid in GG25 cast iron. Bolts in A2 stainless steel. O-rings in nitril. Pump shaft in AISI 420 stainless steel. Double mechanical seal in oil chamber, carbon-ceramic on the motor side and silicon carbide on the impeller side.

### Motor:

Asynchronous at 2,850 rpm, single and triple phase, class F insulation. IP-68 protection. Includes 10 metres of HO7 RNF cable as standard. Maximum water temperature in continuous + 40° C. Ph values between 6 and 11.

| Tipo<br>Type       | Con.<br>µF | Volt. | Potencia |      | "A"       |            | Altura m.c.a. / Height w.c.m. |      |      |      |     |     |    |    |     |     | Ø Paso Sólido | Ø Imp. |        |
|--------------------|------------|-------|----------|------|-----------|------------|-------------------------------|------|------|------|-----|-----|----|----|-----|-----|---------------|--------|--------|
|                    |            |       | HP       | KW   | II<br>230 | III<br>400 | 2                             | 4    | 5    | 6    | 8   | 10  | 12 | 14 | 16  | 18  |               |        |        |
|                    |            |       |          |      |           |            | Caudal m³/h / Flow m³/h       |      |      |      |     |     |    |    |     |     |               |        |        |
| COMPACTA 1 M Aut.  | 7,5        | 230M  | 0,4      | 0,28 | 1,9       | -          | 7,7                           | 4,5  | 3,2  | 1,8  |     |     |    |    |     |     |               | 30     | 1 1/4" |
| COMPACTA 2 M Aut.  | 16         | 230M  | 0,75     | 0,55 | 3,6       | -          | 12,8                          | 10   | 8,4  | 6,7  | 3,1 |     |    |    |     |     |               | 35     | 1 1/2" |
| COMPACTA 2 T       | -          | 400T  |          |      | -         | 1,8        |                               |      |      |      |     |     |    |    |     |     |               |        |        |
| COMPACTA 3 M Aut.  | 20         | 230M  | 1        | 0,75 | 5,2       | -          | 16,5                          | 13,5 | 12   | 10,7 | 7,2 | 3,5 |    |    |     |     |               | 35     | 1 1/2" |
| COMPACTA 3 T       | -          | 400T  |          |      | -         | 2,0        |                               |      |      |      |     |     |    |    |     |     |               |        |        |
| COMPACTA 22 M Aut. | 16         | 230M  | 0,75     | 0,55 | 3,6       | -          | 24,1                          | 18,2 | 14,5 | 10,5 | 2   |     |    |    |     |     |               | 40     | 2"     |
| COMPACTA 22 T      | -          | 400T  |          |      | -         | 1,8        |                               |      |      |      |     |     |    |    |     |     |               |        |        |
| COMPACTA 32 M Aut. | 20         | 230M  | 1        | 0,75 | 5,2       | -          | 29                            | 23,5 | 20   | 16,5 | 9,5 | 2   |    |    |     |     |               | 40     | 2"     |
| COMPACTA 32 T      | -          | 400T  |          |      | -         | 2,0        |                               |      |      |      |     |     |    |    |     |     |               |        |        |
| COMPACTA 4 M Aut.  | 30         | 230M  | 1,5      | 1,1  | 7,6       | -          |                               | 27   | 24   | 21   | 16  | 9   | 3  |    |     |     |               | 50     | 2"     |
| COMPACTA 4 T       | -          | 400T  |          |      | -         | 2,9        |                               |      |      |      |     |     |    |    |     |     |               |        |        |
| COMPACTA 55 M Aut  | 32         | 230M  | 2        | 1,5  | 9,9       | -          |                               | 30   | 27   | 25,5 | 20  | 15  | 9  | 3  |     |     |               | 50     | 2"     |
| COMPACTA 55 T      | -          | 400T  |          |      | -         | 3,7        |                               |      |      |      |     |     |    |    |     |     |               |        |        |
| COMPACTA 6 T       | -          | 400T  | 3        | 2,2  | -         | 5,2        |                               | 37   | 36   | 34   | 29  | 24  | 19 | 14 | 7,2 | 0,5 |               | 50     | 2"     |

# VG

aguas fecales vórtex  
vortex fecal water



### Aplicaciones:

Bomba centrífuga sumergible idónea para el desagüe de aguas sucias y cargadas en general. Incorporan interruptor de nivel para su funcionamiento automático en versiones monofásicas.

### Características constructivas:

Cuerpo impulsión, tapa superior motor y turbina en fundición de hierro. Eje bomba y camisa en acero inoxidable AISI-304. Dispone de doble sello mecánico con cámara intermedia de aceite atóxico. Equipada con 10 metros de cable eléctrico de tipo H07RN-F.

### Motor:

Motor en seco, refrigerado por el medio líquido en el que está sumergida la bomba. Versiones monofásicas incorporan una protección termo amperimétrica. Temperatura del líquido: +0°C a +40° C. Aislamiento Clase F.



### Applications:

Submersible centrifugal pump with stainless steel sleeve that is ideal for draining dirty waters and waters that are generally loaded.



### Constructive characteristics:

Pump body, upper motor cover and impeller in cast iron. Pump shaft and sleeve in stainless steel AISI-304. Double mechanical seal with intermediate oil chamber. Includes 10 meters of H07RN-F cable.

### Motor:

Dry motor, cooled by the liquid medium in which the pump is submerged. Single phase pumps includes a thermal protection. Temperature of the liquid: from + 0°C to +40°C. Issolation Class F.

| Tipo<br>Type            | Cond.<br>µF | Potencia |      | "A"       |            | Altura m.c.a. / Height w.c.m. |      |      |      |      |    |    |    |    | Paso Solido mm. | Ø Imp. |
|-------------------------|-------------|----------|------|-----------|------------|-------------------------------|------|------|------|------|----|----|----|----|-----------------|--------|
|                         |             | HP       | KW   | II<br>230 | III<br>400 | 3                             | 4,5  | 6    | 9    | 12   | 15 | 18 | 21 | 24 |                 |        |
| Caudal m³/h / Flow m³/h |             |          |      |           |            |                               |      |      |      |      |    |    |    |    |                 |        |
| VG 05 M Aut             | 12          | 0,5      | 0,37 | 3,5       | -          | 15                            | 12,5 | 9    | 2,5  | -    | -  | -  | -  | -  | 35              | 2"     |
| VG 10 M Aut             | 20          | 1        | 0,75 | 5,0       | -          | 20                            | 18   | 15,5 | 10,5 | 4    | -  | -  | -  | -  | 35              | 2"     |
| VG 10 T                 | -           |          |      | -         | 1,9        |                               |      |      |      |      |    |    |    |    |                 |        |
| VG 20 M Aut             | 40          | 2        | 1,5  | 9,6       | -          | 40                            | 36   | 32   | 25   | 17,5 | 5  | -  | -  | -  | 50              | 2"     |
| VG 20 T                 | -           |          |      | -         | 3,6        |                               |      |      |      |      |    |    |    |    |                 |        |
| VG 30 T                 | -           | 3        | 2,2  | -         | 4,8        | 50                            | 46   | 42,5 | 36   | 30   | 22 | 8  | -  | -  | 50              | 2"     |
| VG 50 T                 | -           | 5        | 3,7  | -         | 7,9        | 60                            | 57,5 | 54   | 51   | 44   | 37 | 30 | 18 | 4  | 50              | 3"     |

# GRIX/GT/GX



| Tipo<br>Type               | P2 (HP) | "A"   |            | r.p.m. | Altura m.c.a. / Height w.c.m. |      |      |      |      |      |      |  |
|----------------------------|---------|---|------------|--------|-------------------------------|------|------|------|------|------|------|--|
|                            |         | II<br>230   | III<br>400 |        | 5                             | 6    | 7    | 8    | 9    | 10   | 12   |  |
|                            |         | Caudal m <sup>3</sup> /h / Flow m <sup>3</sup> /h |            |        |                               |      |      |      |      |      |      |  |
| <b>GRIX 32-2 90 M Aut</b>  | 1,2     | 5   | -          | 2.850  | 9                             | 8,8  | 8,5  | 8    | 7,7  | 7,2  | 6,2  |  |
| <b>GRIX 32-2 90 T</b>      |         | -   | 2,1        | 2.850  |                               |      |      |      |      |      |      |  |
| <b>GRIX 32-2 110 M Aut</b> | 1,5     | 7   | -          | 2.850  | 10,6                          | 10,5 | 10,4 | 10,2 | 9,9  | 9,6  | 8,8  |  |
| <b>GRIX 32-2 110 T</b>     |         | -   | 2,9        | 2.850  |                               |      |      |      |      |      |      |  |
| <b>GX 50-2 220 T</b>       | 3       | -   | 5          | 2.850  | 21,5                          | 21   | 20,5 | 20   | 19,5 | 18,7 | 17,5 |  |
| <b>GT 50-2 165 T</b>       | 4,5     | -   | 6,9        | 2.850  |                               |      |      |      |      |      |      |  |
| <b>GT 50-2 170 T</b>       | 6       | -   | 8,9        | 2.850  |                               |      |      |      |      |      |      |  |
| <b>GT 50-2 175 T</b>       | 8,5     | -   | 12,4       | 2.850  |                               |      |      |      |      |      |      |  |
| <b>GT 50-2 180 T</b>       | 10,5    | -   | 16,2       | 2.850  |                               |      |      |      |      |      |      |  |
| <b>GT 50-2 185 T</b>       | 13      | -   | 20         | 2.850  |                               |      |      |      |      |      |      |  |



### Aplicaciones:

Bomba de tipo sumergible con triturador, para el servicio civil e industrial, de bombeado de aguas sucias procedentes de servicios higiénicos en albergues, campamentos, hospitales y de aguas residuales procedentes del zoo, industria conservera, etc.

**En caso de trabajar a baja altura, recomendamos instalar una válvula de bola para provocar el trabajo dentro de la curva.**

### Características constructivas:

Cuerpo bomba, cuerpo motor y turbina en fundición de alta resistencia. Dispositivo triturador en acero inoxidable obtenido por microfundición y endurecido para obtener dureza y tenacidad. Disco cierre de hierro. Tornillería y extensión eje motor en acero inoxidable. Cierre mecánico en carburo de silicio.

### Motor:

Asíncrono absolutamente estanco con aislamiento clase F= 155° C. y grado de protección IP-68, la refrigeración del motor efectúa por el líquido en el cual está sumergida la bomba. **Instalar siempre una válvula de corte para ajustar la altura manométrica mínima de la bomba.**



### Applications:

Submersible pumps with grinder cutting system for civil and industrial use. To pump waters from sanitary services in boarding houses, camp sites, hospitals, and residual waters from zoos, conserve industries, etc...

**Esphere valve recommended for low pressure work.**

### Constructive characteristics:

Body, motor housing and Impeller in high strength cast iron. Grinder mechanism in stainless steel obtained by microfusion and hardened to achieve hardness and tenacity. Iron sealing disk. Bolts and motor shaft extension in stainless steel. Mechanical seal chamber in silicon carbide.

### Motor:

Submersible, asynchronous, continuous service, tight seal cladded. Rotor mounted with ball bearings calculated to guarantee duration and silent working. CEI standard. IP-68 protection. F insulation.

Control containing the permanent capacitor and the mechanism for increasing the starting torque.

**Install always a closing valve to adjust the minimum manometric high of each pump.**

| Altura m.c.a. / Height w.c.m. |      |      |      |      |      |      |      |     |      |      |    |    |     |      |    | Paso sólidos<br>Free Pass<br>mm. | Ø IMP.<br>Outlet |
|-------------------------------|------|------|------|------|------|------|------|-----|------|------|----|----|-----|------|----|----------------------------------|------------------|
| 14                            | 16   | 18   | 20   | 23   | 26   | 29   | 32   | 35  | 38   | 41   | 44 | 47 | 50  | 56   | 62 |                                  |                  |
| Caudal m³/h / Flow m³/h       |      |      |      |      |      |      |      |     |      |      |    |    |     |      |    |                                  |                  |
| 5                             | 3,9  | 2,7  | 1,4  |      |      |      |      |     |      |      |    |    |     |      |    | 6                                | 1 1/4"           |
| 7,7                           | 6,7  | 5,5  | 4,4  | 2,2  |      |      |      |     |      |      |    |    |     |      |    | 6                                | 1 1/4"           |
| 16                            | 14,4 | 12,3 | 10,5 | 7,5  | 4,5  | 1,3  |      |     |      |      |    |    |     |      |    | 6                                | 2"               |
|                               | 19,5 | 19   | 18,5 | 15,4 | 11,5 | 7,5  | 4,2  | 0,5 |      |      |    |    |     |      |    | 8                                | 2"               |
|                               |      | 21,5 | 21   | 19,8 | 18   | 14   | 10,8 | 7,2 | 3,5  |      |    |    |     |      |    | 8                                | 2"               |
|                               |      |      |      | 28   | 25,2 | 21,7 | 18   | 14  | 11   | 6,5  | 3  |    |     |      |    | 10                               | DN 50            |
|                               |      |      |      |      |      | 28,5 | 28   | 26  | 24   | 17,5 | 15 | 11 | 7,2 |      |    | 10                               | DN 50            |
|                               |      |      |      |      |      |      |      |     | 28,5 | 28   | 27 | 24 | 20  | 12,5 | 5  | 10                               | DN 50            |

# HT

aguas cargadas a grandes alturas  
*laden waters at high altitudes*



**Aplicaciones:**

Las electrobombas de la serie HT están especialmente diseñadas para la elevación de aguas claras y ligeramente cargadas o arenosas a grandes alturas. Especialmente indicadas para fuentes, riegos, pozos, cisternas, etc...

**Características constructivas:**

Carcasa, tapa motor, cuerpo bomba y turbina en fundición G-25 de alta resistencia; eje rotor y tornillería en inox.; juntas tóricas en goma nitrílica; cierre mecánico autolubricado mediante cámara intermedia de aceite, cierre mecánico superior en cerámica-grafito y cierre mecánico inferior en carburo de silicio-vitón.

**Motor:**

Asíncrono, en baño de aceite dieléctrico y atóxico, absolutamente estanco con aislamiento tipo F=155° C y grado de protección IP-68; de serie con 10 mts. de cable de neopreno H07-RN-F. Todos los motores de esta serie son a 2.850 r.p.m. Temperatura máxima del agua bombeado en continuo + 40° C y en intermitente + 80° C. Valores Ph: entre 6-11. Profundidad máxima de inmersión: 20 mts. Densidad máxima del líquido: 1.100 Kg/ m³



**Applications:**

The electropumps of the HT series are especially designed to raise clear and lightly loaded or sandy waters to great heights. Particularly recommended for fountains, irrigation, wells, cisterns, etc...



**Constructive characteristics:**

Housing, motor lid, pump body and Impeller in G-25 high strength cast iron; rotor shaft and bolt work in stainless steel, o-rings in nitril rubber, mechanical seal self-lubricated by intermediate oil chamber, upper mechanical seal in graphite ceramic and lower in silicon carbide - viton.

**Motor:**

Asynchronous, in dielectric and atoxic oil bath only in the seal chamber, absolutely sealed with F=155° C sealing and IP-68 protection. Standard with 10 metres of H07-RN-F neoprene cable. All motors are standard at 2,850 rpm. Maximum water temperature pumped in continuous + 40° C and in intermittent + 80° C. Ph values: between 6-11. Maximum immersion: 20 metres. Maximum density of the liquid: 1.100 Kg/ m³

| Tipo<br>Type   | Potencia                |     | "A"  | Altura m.c.a. / Height w.c.m. |    |    |    |     |     |    |     |    |    |    |    |    |    | Paso<br>solidos<br>Free Pass<br>mm. | Ø<br>IMP. Outlet |    |              |
|----------------|-------------------------|-----|------|-------------------------------|----|----|----|-----|-----|----|-----|----|----|----|----|----|----|-------------------------------------|------------------|----|--------------|
|                | HP                      | KW  |      | III<br>400                    | 4  | 6  | 10 | 14  | 16  | 18 | 20  | 22 | 24 | 26 | 30 | 34 | 38 |                                     |                  | 42 | 46           |
|                | Caudal m³/h / Flow m³/h |     |      |                               |    |    |    |     |     |    |     |    |    |    |    |    |    |                                     |                  |    |              |
| HT 50-2 C. 500 | 2                       | 1,5 | 3,8  | 27                            | 24 | 17 | 10 | 6,8 | 3,6 |    |     |    |    |    |    |    |    |                                     |                  | 17 | 2"           |
| HT 50-2 C. 501 | 3                       | 2,2 | 5,2  | 31                            | 29 | 25 | 19 | 16  | 13  | 10 | 6,8 | 3  |    |    |    |    |    |                                     |                  | 17 | 2"           |
| HT 65-2 C. 502 | 4                       | 3   | 7,5  | 33                            | 31 | 26 | 21 | 19  | 16  | 13 | 10  | 7  | 5  |    |    |    |    |                                     |                  | 10 | DN 65 / PN 6 |
| HT 65-2 C. 503 | 5,5                     | 4   | 9,4  | 38                            | 37 | 33 | 30 | 28  | 26  | 24 | 22  | 19 | 16 | 12 | 6  | 1  |    |                                     |                  | 10 | DN 65 / PN 6 |
| HT 65-2 C. 504 | 7,5                     | 5,5 | 12,5 | 53                            | 51 | 46 | 41 | 38  | 36  | 34 | 32  | 28 | 26 | 19 | 13 | 7  |    |                                     |                  | 10 | DN 65 / PN 6 |
| HT 65-2 C. 505 | 10                      | 7,5 | 15,5 | 65                            | 64 | 59 | 54 | 53  | 50  | 49 | 45  | 42 | 40 | 34 | 28 | 20 | 15 | 7,2                                 | 1                | 10 | DN 65 / PN 6 |



# M

## turbina monocanal single channel impeller



### Aplicaciones:

Las electrobombas de la serie M, por su robustez y diseño compacto, son las idóneas para el bombeado de aguas residuales como pueden ser fangos biológicos, etc., que contengan sólidos en suspensión. Especialmente indicadas para el sector civil, industrial y sanitario. Gracias al diseño de sus diferentes componentes así como a los dispositivos de seguridad que incorporan los motores, estas bombas son aptas para un trabajo continuo.

**Debe trabajar con el motor completamente sumergido.**

**MÁXIMA TEMPERATURA DEL LÍQUIDO: 50° C**

### Características constructivas:

Carcasa, tapa motor, cuerpo bomba y turbina en fundición G-25 de alta resistencia; eje rotor y tornillería en inox.; juntas tóricas en goma nitrílica; cierre mecánico superior en cerámica-grafito y cierre mecánico inferior en carburo de silicio-vitón. Todas las bombas incluyen cámara de aceite atóxico y sensores de temperatura en el bobinado del motor.

### Motor:

Asíncrono, absolutamente estanco con aislamiento tipo F=155° C y grado de protección IP-68; de serie con 10 mts. de cable de neopreno HO7-RN-F. La refrigeración del motor se efectúa por el líquido en el cual está sumergida la bomba.



### Applications:

The robustness and compact design of the electro-pumps of the M series make them ideal for pumping waste waters such as biological silts, etc. that contain solids in suspension of up to 140 x 140 mm. Particularly recommended for the civil, industrial and sanitary sectors. Thanks to the design of the open monochannel, multichannel Impellers,

The upper part of the Impeller includes a toothed section that prevents particles and filaments from adhering to the shaft.

**Must work with motor fully submerged.**

**MAXIMUM TEMPERATURE OF THE LIQUID: 50° C**

### Constructive characteristics:

Housing, motor lid, pump body and Impeller in G-25 high strength cast iron; rotor shaft and bolt work in stainless steel, o-rings in nitril rubber, mechanical seal self-lubricated by intermediate oil chamber, upper mechanical seal in graphite ceramic and lower in silicon carbide - viton. All pumps include a non-toxic oil chamber and temperature sensors in the motor winding.

### Motor:

Asynchronous, class F=155° C insulation and IP-68 protection. Standard with 10 metres of HO7-RN-F neoprene cable. These pumps works 2,850 rpm - 1,450 rpm – 970 rpm.



Zócalo de anclaje bajo demanda

*Pedestal kit under demand*

# M

| Tipo<br><i>Type</i> | P2 (HP) | "A" | r.p.m. | Altura m.c.a. / Height w.c.m.                     |   |   |   |   |   |   |   |    |    |    |
|---------------------|---------|-----|--------|---|---|---|---|---|---|---|---|----|----|----|
|                     |         |     |        | 2   | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 12 | 14 |
| III<br>400          |         |     |        | Caudal m <sup>3</sup> /h / Flow m <sup>3</sup> /h |   |   |   |   |   |   |   |    |    |    |

### MONOCANAL 2.850 r.p.m.

|               |     |      |      |    |    |     |     |      |     |      |     |     |      |      |
|---------------|-----|------|------|----|----|-----|-----|------|-----|------|-----|-----|------|------|
| M 65/2 C. 236 | 2   | 3,8  | 2850 | 49 | 47 | 44  | 42  | 39,5 | 37  | 34,3 | 32  | 29  | 23   | 16,5 |
| M 65/2 C. 237 | 3   | 5,3  | 2850 | 62 | 59 | 57  | 54  | 52   | 49  | 46   | 44  | 41  | 35,5 | 31   |
| M 65/2 C. 247 | 5,5 | 9,4  | 2850 | 79 | 77 | 74  | 71  | 68,5 | 66  | 62,5 | 60  | 56  | 50   | 43   |
| M 80/2 C. 254 | 7,5 | 11,5 | 2850 |    |    | 124 | 118 | 114  | 110 | 107  | 102 | 98  | 89   | 79   |
| M 80/2 C. 257 | 10  | 14,1 | 2850 |    |    | 140 | 136 | 132  | 128 | 124  | 120 | 116 | 108  | 98   |
| M 80/2 C. 267 | 16  | 23   | 2850 |    |    |     | 195 | 190  | 185 | 180  | 175 | 170 | 163  | 150  |
| M 80/2 C. 268 | 20  | 29,7 | 2850 |    |    |     |     |      | 225 | 220  | 216 | 212 | 204  | 195  |
| M 80/2 C. 269 | 27  | 41,5 | 2850 |    |    |     |     |      |     |      |     |     |      |      |
| M 80/2 C. 270 | 34  | 48,4 | 2850 |    |    |     |     |      |     |      |     |     |      |      |
| M 80/2 C. 271 | 41  | 54,9 | 2850 |    |    |     |     |      |     |      |     |     |      |      |

### MONOCANAL 1.450 r.p.m.

|                |      |       |      |     |     |     |     |     |     |     |     |     |     |     |
|----------------|------|-------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| M 80/4 C. 242  | 2    | 3,8   | 1450 | 94  | 82  | 70  | 58  | 44  | 35  | 24  | 7   |     |     |     |
| M 80/4 C. 244  | 3    | 5,3   | 1450 | 112 | 101 | 92  | 81  | 70  | 60  | 49  | 39  | 24  | 4   |     |
| M 80/4 C. 245  | 4    | 7,2   | 1450 | 130 | 120 | 112 | 103 | 92  | 84  | 75  | 63  | 54  | 34  | 15  |
| M 100/4 C. 243 | 2,2  | 3,9   | 1450 | 93  | 82  | 72  | 63  | 49  | 38  | 27  | 16  | 7   |     |     |
| M 100/4 C. 244 | 3    | 5,1   | 1450 | 108 | 99  | 90  | 80  | 69  | 60  | 49  | 37  | 28  | 8   |     |
| M 100/4 C. 245 | 4    | 7     | 1450 | 126 | 119 | 108 | 98  | 88  | 78  | 68  | 58  | 47  | 27  | 11  |
| M 100/4 C. 255 | 5,5  | 9,2   | 1450 | 150 | 140 | 130 | 120 | 109 | 98  | 88  | 78  | 67  | 46  | 25  |
| M 100/4 C. 256 | 7,5  | 11,5  | 1450 |     | 165 | 158 | 148 | 138 | 127 | 117 | 108 | 98  | 76  | 57  |
| M 150/4 C. 258 | 10   | 15,6  | 1450 |     | 274 | 261 | 245 | 230 | 212 | 199 | 180 | 162 | 126 | 87  |
| M 150/4 C. 260 | 13,5 | 21,3  | 1450 |     |     | 226 | 221 | 218 | 210 | 203 | 192 | 188 | 170 | 143 |
| M 150/4 C. 263 | 22,5 | 33,2  | 1450 |     |     |     |     | 259 | 256 | 252 | 248 | 245 | 234 | 219 |
| M 150/4 C. 264 | 15   | 23,4  | 1450 |     |     |     |     | 330 | 288 | 270 | 242 | 225 | 208 | 122 |
| M 150/4 C. 265 | 20   | 31,8  | 1450 |     |     |     |     | 362 | 342 | 324 | 310 | 295 | 277 | 240 |
| M 150/4 C. 275 | 24   | 39,7  | 1450 |     |     |     |     | 415 | 404 | 390 | 378 | 360 | 345 | 310 |
| M 150/4 C. 280 | 31   | 47,7  | 1450 |     |     |     |     |     |     |     | 421 | 405 | 392 | 363 |
| M 150/4 C. 285 | 40   | 59    | 1450 |     |     |     |     |     |     |     | 508 | 495 | 477 | 460 |
| M 150/4 C. 290 | 53,5 | 73,2  | 1450 |     |     |     |     |     |     |     |     |     |     | 523 |
| M 150/4 C. 295 | 61   | 98,6  | 1450 |     |     |     |     |     |     |     |     |     |     | 500 |
| M 150/4 C. 300 | 68   | 108,6 | 1450 |     |     |     |     |     |     |     |     |     |     |     |

**Zócalo de anclaje  
bajo demanda**

*Pedestal kit under  
demand*



M

| Altura m.c.a. / Height w.c.m.                     |    |    |    |    |    |    |    |    |    |    |    |    |    | Paso<br>solidos<br>Free Pass<br>mm. | Ø<br>IMP.<br>Outlet |
|---|----|----|----|----|----|----|----|----|----|----|----|----|----|-------------------------------------|---------------------|
| 16  | 18 | 20 | 23 | 26 | 29 | 35 | 38 | 41 | 44 | 47 | 50 | 55 | 60 |                                     |                     |
| Caudal m <sup>3</sup> /h / Flow m <sup>3</sup> /h |    |    |    |    |    |    |    |    |    |    |    |    |    |                                     |                     |

|  |     |     |     |     |     |     |     |     |     |     |     |     |    |    |  |  |     |              |
|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|--|--|-----|--------------|
|  |     |     |     |     |     |     |     |     |     |     |     |     |    |    |  |  | 40  | DN 65 / PN10 |
|  | 9,5 | 2   |     |     |     |     |     |     |     |     |     |     |    |    |  |  | 40  | DN 65 / PN10 |
|  | 24  | 18  | 12  | 2,5 |     |     |     |     |     |     |     |     |    |    |  |  | 45  | DN 65 / PN10 |
|  | 36  | 29  | 22  | 10  |     |     |     |     |     |     |     |     |    |    |  |  | 60  | DN 80        |
|  | 68  | 60  | 49  | 33  | 18  | 3   |     |     |     |     |     |     |    |    |  |  | 60  | DN 80        |
|  | 90  | 80  | 70  | 55  | 40  | 26  |     |     |     |     |     |     |    |    |  |  | 33  | DN 80        |
|  | 145 | 138 | 124 | 110 | 95  | 76  | 42  | 20  | 5   |     |     |     |    |    |  |  | 33  | DN 80        |
|  | 188 | 177 | 167 | 154 | 139 | 122 | 90  | 73  | 58  | 40  | 22  |     |    |    |  |  | 40  | DN 80        |
|  |     |     | 192 | 175 | 162 | 148 | 119 | 101 | 86  | 65  | 50  | 30  |    |    |  |  | 40  | DN 80        |
|  |     |     | 217 | 203 | 189 | 172 | 145 | 128 | 116 | 95  | 83  | 64  | 35 |    |  |  | 40  | DN 80        |
|  |     |     | 238 | 223 | 211 | 197 | 174 | 158 | 148 | 125 | 113 | 96  | 68 | 42 |  |  | 40  | DN 80        |
|  |     |     |     |     |     |     |     |     |     |     |     |     |    |    |  |  | 75  | DN 80        |
|  |     |     |     |     |     |     |     |     |     |     |     |     |    |    |  |  | 75  | DN 80        |
|  |     |     |     |     |     |     |     |     |     |     |     |     |    |    |  |  | 75  | DN 80        |
|  |     |     |     |     |     |     |     |     |     |     |     |     |    |    |  |  | 75  | DN 100       |
|  |     |     |     |     |     |     |     |     |     |     |     |     |    |    |  |  | 75  | DN 100       |
|  |     |     |     |     |     |     |     |     |     |     |     |     |    |    |  |  | 75  | DN 100       |
|  |     |     |     |     |     |     |     |     |     |     |     |     |    |    |  |  | 90  | DN 100       |
|  | 7   |     |     |     |     |     |     |     |     |     |     |     |    |    |  |  | 90  | DN 100       |
|  | 36  | 18  |     |     |     |     |     |     |     |     |     |     |    |    |  |  | 100 | DN 100       |
|  | 43  |     |     |     |     |     |     |     |     |     |     |     |    |    |  |  | 100 | DN 150       |
|  | 130 | 100 | 81  | 50  | 25  |     |     |     |     |     |     |     |    |    |  |  | 80  | DN 150       |
|  | 205 | 185 | 162 | 125 | 93  | 50  |     |     |     |     |     |     |    |    |  |  | 80  | DN 150       |
|  | 80  | 42  |     |     |     |     |     |     |     |     |     |     |    |    |  |  | 110 | DN 150       |
|  | 165 | 130 | 98  | 21  |     |     |     |     |     |     |     |     |    |    |  |  | 110 | DN 150       |
|  | 240 | 200 | 165 | 115 | 55  |     |     |     |     |     |     |     |    |    |  |  | 120 | DN 150       |
|  | 300 | 260 | 231 | 175 | 125 | 67  |     |     |     |     |     |     |    |    |  |  | 120 | DN 150       |
|  | 343 | 315 | 280 | 232 | 185 | 166 | 45  |     |     |     |     |     |    |    |  |  | 110 | DN 150       |
|  | 475 | 443 | 418 | 375 | 325 | 280 | 180 | 130 | 88  | 32  |     |     |    |    |  |  | 120 | DN 150       |
|  |     | 535 | 510 | 470 | 432 | 387 | 300 | 255 | 195 | 155 | 100 | 43  |    |    |  |  | 130 | DN 150       |
|  |     |     |     |     |     |     | 362 | 323 | 277 | 240 | 198 | 156 | 77 |    |  |  | 140 | DN 150       |

# VT

## turbina vortex vortex impeller



### Aplicaciones:

Las electrobombas de la serie VT, por su robustez y diseño compacto, son las idóneas para el bombeado de aguas residuales como pueden ser fangos biológicos, etc., que contengan sólidos en suspensión de hasta 130 x 130 mm. Especialmente indicadas para el sector civil, industrial y sanitario. Gracias al diseño de sus turbinas vortex es posible bombear líquidos que contengan gases la parte superior de la turbina incorpora un especial dentado que previene la adhesión de filamentos al eje y sello mecánico. **Debe trabajar con el motor completamente sumergido. TEMPERATURA MÁXIMA DEL LIQUIDO: 50° C**

### Características constructivas:

Carcasa, tapa motor, cuerpo bomba y turbina en fundición G-25 de alta resistencia; eje rotor y tornillería en inox.; juntas tóricas en goma nitrílica; cierre mecánico superior en cerámica-grafito y cierre mecánico inferior en carburo de silicio-vitón. Todas las bombas incluyen cámara de aceite atóxico y sensores de temperatura en el bobinado del motor.

### Motor:

Asíncrono, absolutamente estanco con aislamiento tipo

F=155° C y grado de protección IP-68; de serie con 10 mts. de cable de neopreno H07-RN-F. La refrigeración del motor se efectúa por el líquido en el cual esta sumergida la bomba.



### Applications:

*The robustness and compact design of the electropumps of the VT series make them ideal for pumping waste waters such as biological silts, etc. that contain solids in suspension of up to 130 x 130 mm. Particularly recommended for the civil, industrial and sanitary sectors. Thanks to the design of the vortex Impellers, it is possible to transfer liquids with abrasive particles or gases. The upper part of the Impeller includes a toothed section that prevents particles and filaments from adhering to the shaft. **Must work with motor fully submerged. MAXIMUM TEMPERATURE OF THE LIQUID: 50° C***

### Constructive characteristics:

*Housing, motor lid, pump body and Impeller in G-25 high strength cast iron; rotor shaft and bolt work in stainless steel, o-rings in nitril rubber, mechanical seal self-lubricated by intermediate oil chamber, upper mechanical seal in graphite ceramic and lower in silicon carbide - viton. All pumps include a non-toxic oil chamber and temperature sensors in the motor winding.*

### Motor:

*Asynchronous, in dielectric and atoxic oil bath only in the seal chamber, absolutely sealed with F=155° C sealing and IP-68 protection. Standard with 10 metres of H07-RN-F neoprene cable. All motors are standard at 2,850-1,450-970 rpm.*

| Tipo<br>Type               | P2 (HP) | "A"   | r.p.m. | Altura m.c.a. / Height w.c.m. |     |     |     |     |     |     |  |
|----------------------------|---------|-------|--------|-------------------------------|-----|-----|-----|-----|-----|-----|--|
|                            |         |       |        | 2                             | 3   | 4   | 5   | 6   | 7   | 8   |  |
| III<br>400                 |         |       |        | Caudal m³/h / Flow m³/h       |     |     |     |     |     |     |  |
| <b>VORTEX 1.450 r.p.m.</b> |         |       |        |                               |     |     |     |     |     |     |  |
| VT 80/4 C. 341             | 1,5     | 2,8   | 1450   | 54                            | 44  | 32  | 20  | 7   |     |     |  |
| VT 80/4 C. 342             | 1,7     | 3,3   | 1450   | 68                            | 57  | 47  | 36  | 25  | 13  |     |  |
| VT 80/4 C. 344             | 3       | 5,2   | 1450   | 102                           | 90  | 77  | 66  | 54  | 42  | 28  |  |
| VT 80/4 C. 345             | 4       | 7,2   | 1450   | 116                           | 107 | 96  | 85  | 74  | 63  | 53  |  |
| VT 100/4 C. 349            | 3       | 5,2   | 1450   | 98                            | 80  | 63  | 46  | 28  | 13  |     |  |
| VT 100/4 C. 350            | 4       | 7,2   | 1450   | 118                           | 103 | 86  | 73  | 62  | 45  | 33  |  |
| VT 100/4 C. 355            | 5,5     | 9,2   | 1450   | 132                           | 123 | 110 | 98  | 85  | 73  | 57  |  |
| VT 100/4 C. 356            | 8       | 12,4  | 1450   | 145                           | 137 | 128 | 122 | 111 | 100 | 91  |  |
| VT 100/4 C. 358            | 10      | 15,7  | 1450   | 166                           | 158 | 152 | 144 | 136 | 128 | 122 |  |
| VT 100/4 C. 362            | 16      | 23,8  | 1450   |                               |     |     |     |     |     | 163 |  |
| VT 100/4 C. 363            | 21      | 30,4  | 1450   |                               |     |     |     |     |     | 97  |  |
| VT 100/4 C. 375            | 27      | 41    | 1450   |                               |     |     |     |     |     |     |  |
| VT 100/4 C. 380            | 34      | 50,9  | 1450   |                               |     |     |     |     |     |     |  |
| VT 150/4 C. 385            | 48      | 68    | 1450   |                               |     |     |     |     |     | 410 |  |
| VT 150/4 C. 390            | 60      | 82,5  | 1450   |                               |     |     |     |     |     |     |  |
| VT 150/4 C. 395            | 75      | 100,1 | 1450   |                               |     |     |     |     |     |     |  |



SUBMERSIBLE

VT

| Altura m.c.a. / Height w.c.m.                     |     |     |     |     |     |     |     |     |     |     |     |    |  | Paso<br>sólidos<br>Free Pass<br>mm. | Ø<br>IMP.<br>Outlet |        |
|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|--|-------------------------------------|---------------------|--------|
| 9   | 10  | 12  | 14  | 16  | 18  | 20  | 23  | 26  | 29  | 32  | 35  | 38 |  |                                     |                     |        |
| Caudal m <sup>3</sup> /h / Flow m <sup>3</sup> /h |     |     |     |     |     |     |     |     |     |     |     |    |  |                                     |                     |        |
|   |     |     |     |     |     |     |     |     |     |     |     |    |  |                                     | 75                  | DN 80  |
|   |     |     |     |     |     |     |     |     |     |     |     |    |  |                                     | 75                  | DN 80  |
|   | 16  | 7   |     |     |     |     |     |     |     |     |     |    |  |                                     | 80                  | DN 80  |
|   | 42  | 30  | 7   |     |     |     |     |     |     |     |     |    |  |                                     | 80                  | DN 80  |
|   |     |     |     |     |     |     |     |     |     |     |     |    |  |                                     | 100                 | DN 100 |
|   | 18  | 3   |     |     |     |     |     |     |     |     |     |    |  |                                     | 100                 | DN 100 |
|   | 45  | 32  |     |     |     |     |     |     |     |     |     |    |  |                                     | 90                  | DN 100 |
|   | 83  | 72  | 50  | 28  | 5   |     |     |     |     |     |     |    |  |                                     | 90                  | DN 100 |
|   | 110 | 102 | 78  | 63  | 39  | 15  |     |     |     |     |     |    |  |                                     | 90                  | DN 100 |
|   | 155 | 150 | 140 | 108 | 86  | 43  | 18  |     |     |     |     |    |  |                                     | 100                 | DN 100 |
|   | 195 | 194 | 176 | 157 | 136 | 101 | 85  | 35  |     |     |     |    |  |                                     | 100                 | DN 100 |
|   |     |     |     |     |     |     | 144 | 115 | 83  | 40  |     |    |  |                                     | 100                 | DN 100 |
|   |     |     |     |     |     |     | 194 | 157 | 120 | 78  | 46  |    |  |                                     | 100                 | DN 100 |
|   | 373 | 342 | 288 | 243 | 190 | 145 | 90  |     |     |     |     |    |  |                                     | 130                 | DN 150 |
|   |     | 470 | 414 | 368 | 324 | 280 | 236 | 175 | 108 |     |     |    |  |                                     | 130                 | DN 150 |
|   |     |     |     |     |     | 442 | 386 | 311 | 256 | 198 | 134 | 50 |  |                                     | 130                 | DN 150 |

# VN

## vortex AISI-316



### Aplicaciones:

Bomba centrífuga sumergible idónea para vaciado de depósitos con aguas agresivas, desagüe de aguas sucias y cargadas en general. Incorporan interruptor de nivel para su funcionamiento automático en versiones monofásicas.

### Características constructivas:

Cuerpo impulsión, tapa superior motor, turbina, eje bomba y camisa exterior en acero inoxidable AISI-316. Dispone de doble sello mecánico con cámara intermedia de aceite atóxico. Equipada con 10 metros de cable eléctrico de tipo H07RN-F.

### Motor:

Motor en seco, refrigerado por el medio líquido en el que está sumergida la bomba.

Versiones monofásicas incorporan una protección termo amperimétrica. Temperatura del líquido: +0°C a +40° C. Aislamiento Clase F.



### Applications:

Submersible centrifugal pump ideal for emptying tanks with aggressive waters, draining dirty waters and waters that are generally loaded.

### Constructive characteristics:

Pump body, upper motor cover, impeller, pump shaft and external sleeve in stainless steel AISI-316. Double mechanical seal with intermediate oil chamber. Includes 10 meters of H07RN-F cable.

### Motor:

Dry motor, cooled by the liquid medium in which the pump is submerged.

Single phase pumps includes a thermal protection.

Temperature of the liquid: from + 0°C to +40°C.

Insulation Class F.

| Tipo<br>Type | Cond.<br>µF | Potencia |      | "A"       |            | Altura m.c.a. / Height w.c.m. |      |      |      |    |    |    |    |    |    | Paso<br>Solido<br>mm. | Ø<br>Imp. |
|--------------|-------------|----------|------|-----------|------------|-------------------------------|------|------|------|----|----|----|----|----|----|-----------------------|-----------|
|              |             | HP       | KW   | II<br>230 | III<br>400 | 3                             | 4,5  | 6    | 9    | 12 | 15 | 18 | 24 | 27 |    |                       |           |
|              |             |          |      |           |            | Caudal m³/h / Flow m³/h       |      |      |      |    |    |    |    |    |    |                       |           |
| VN 05 M Aut  | 12          | 0,5      | 0,37 | 3,5       | -          | 15                            | 12,5 | 9    | 2,5  | -  | -  | -  | -  | -  | 35 | 2"                    |           |
| VN 10 M Aut  | 20          | 1        | 0,75 | 5,0       | -          | 20                            | 18   | 15,5 | 10,5 | 4  | -  | -  | -  | -  | 35 | 2"                    |           |
| VN 30 T-50   | -           | 3        | 2,2  | -         | 4,8        | 50                            | 46   | 42,5 | 36   | 30 | 22 | 8  | -  | -  | 50 | 2"                    |           |
| VN 50 T-80   | -           | 5        | 3,7  | -         | 7,9        | 60                            | 57,5 | 54   | 51   | 44 | 37 | 30 | 4  | -  | 50 | 3"                    |           |
| VN 75 T-80   | -           | 7,5      | 5,5  | -         | 11,8       | -                             | -    | -    | 72   | 66 | 54 | 41 | 18 | 5  | 50 | 3"                    |           |

# ESTACIONES DE BOMBEO

estaciones automáticas de recogida y elevación de aguas fecales  
*automatic waste water collection and lifting stations*



**Descripción:** Estaciones automáticas para almacenamiento y elevación de aguas residuales civiles e industriales hacia el alcantarillado. Incluyen un depósito de polietileno de alta densidad de 110 lts. / 200 lts. y con los siguientes accesorios según modelo: **Estas estaciones de bombeo no incluyen bombas.**

**KIT FEKABOX 110:** (Para 1 sola bomba) incluye: Depósito 110 lts., 1 minizócalo de anclaje ya instalado. Puede usarse con las siguientes bombas: NOVA/FEKA y COMPACTA 1-2-3-22-32. Medidas: AxBxH / 700x380x500 mm.

**KIT FEKABOX 200:** (Para 1 sola bomba) incluye: Depósito 200 lts., 1 minizócalo de anclaje ya instalado. Puede usarse con las siguientes bombas: FEKA 600 y COMPACTA. Medidas: AxBxH / 850x555x735 mm.

**KIT FEKAFOS 280:** (Para 1 sola bomba) incluye: Depósito 280 lts., 1 minizócalo de anclaje ya instalado. Puede usarse con las siguientes bombas: COMPACTA, GRIX, GX, GT. Medidas: AxBxH / 800x640x745 mm.

**KIT FEKAFOS 280 DOUBLE (para 2 bombas):** Depósito: 280 lts. 2 minizócalos de anclaje. 3 Interruptores de nivel. Puede usarse con las siguientes bombas: COMPACTA, GRIX, GX, GT. Medidas: AxBxH / 800x640x745 mm.

**KIT DRENOBOX 600 (para 2 bombas):** Depósito 600 lts., 2 minizócalos de anclaje. Puede usarse con las siguientes bombas: COMPACTA, GRIX, GX, GT. Medidas: AxBxH / 920x1.100x745 mm.

**Para tamaños superiores consulten con nuestro departamento técnico.**



**Description:** Automatic stations for storing and rising civil and industrial residual waters to the drain network:

**FEKABOX 110 (only for 1 pump):** Container of 110 lit. made of high density polyetilene, to use with one

pump. Includes automatic coupling finger and connection accesories for pumps in 2". **This faecal station does not includes the pump.**

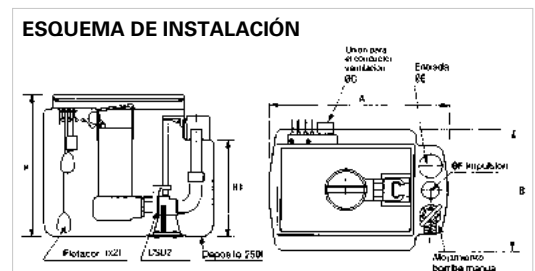
**FEKABOX 200 (only for 1 pump):** Container of 200 lit. made of high density polyetilene, to use with one pump. Includes automatic coupling finger and connection accesories for pumps in 2". **This faecal station does not includes the pump.**

**FEKAFOS 280 (only for 1 pump):** Container of 280 lit. made of high density polyetilene, to use with one pump. Includes automatic coupling finger and connection accesories for pumps in 2". **This faecal station does not includes the pump.**

**FEKAFOS 280 DOUBLE (for 2 pumps):** Container of 280 lit. made of high density polyetilene, to use with two pumps. Includes automatic coupling finger and connection accesories for pumps in 2". **This faecal station does not includes the pump.**

**KIT DRENOBOX 600 (for 2 pumps):** Container of 600 lit. made of high density polyetilene, to use with two pumps. Includes two automatic coupling fingers and connection accesories for pumps in 2". **This faecal station does not includes the pump.**

**For larger sizes consult our technical department.**



# DRX

aguas fecales drenaje  
drainage waste water



**Turbina en Acero Inoxidable**  
**Stainless Steel Impeller**



**Aplicaciones:**

Bombas sumergibles idóneas para el drenaje de aguas turbias y arenosas que contengan sólidos de máximo 8 mm. de diámetro.

**Características constructivas:**

Cuerpo bomba, turbina, rejilla, base de aspiración, asa, eje y carcasa de motor en acero inoxidable AISI-304. Doble sello mecánico y cámara intermedia de aceite atóxico. Equipada con 10 metros de cable HO7-RNF.

**Motor:**

Motor en seco, refrigerado mediante líquido bombeado. Todos los motores incorporan de serie una protección termo amperimétrica. Temperatura del líquido: de + 0° C a + 35° C. Inmersión máxima 10 metros.



**Applications:**

Submersible electro pump ideal for drainage and dirty-sandy waters, containing solids no larger than 8 mm. of diameter.

**Constructive characteristics:**

Pump body, impeller, filter, base, handle and casing in stainless steel AISI 304. Double mechanical seal with intermediate oil chamber. Supplied with 10 mts of H07-RNF cable.

**Motor:**

Dry motor, cooled with the pumped liquid. Temperature of the liquid: from + 0° C to + 35° C. IP 68. Class F. Maximum immersion 10 meters.

| Tipo<br>Type | Potencia |      | "A"       |            | Altura m.c.a. / Height w.c.m.                     |    |    |      |      |    |     |      |     |    |    |    |     |   | Paso<br>sólidos<br>Free Pass<br>mm. | Ø<br>IMP.<br>Outlet |
|--------------|----------|------|-----------|------------|---|----|----|------|------|----|-----|------|-----|----|----|----|-----|---|-------------------------------------|---------------------|
|              | HP       | KW   | II<br>230 | III<br>400 | 4   | 5  | 6  | 7    | 8    | 9  | 10  | 11   | 12  | 14 | 16 | 18 | 20  |   |                                     |                     |
|              |          |      |           |            | Caudal m <sup>3</sup> /h / Flow m <sup>3</sup> /h |    |    |      |      |    |     |      |     |    |    |    |     |   |                                     |                     |
| DRX 7 M Aut  | 0,75     | 0,55 | 4,2       | -          | 15  | 13 | 11 | 9    | 7,5  | 5  | 2,5 |      |     |    |    |    |     | 8 | 11/2"                               |                     |
| DRX 10 M Aut | 1        | 0,75 | 5,1       | -          | 20  | 18 | 16 | 14,5 | 12   | 10 | 8,5 | 7    | 4   |    |    |    |     | 8 | 11/2"                               |                     |
| DRX 10 T     |          |      | -         | 1,9        |   |    |    |      |      |    |     |      |     |    |    |    |     |   |                                     |                     |
| DRX 15 M Aut | 1,5      | 1,1  | 8,3       | -          | 23  | 21 | 19 | 17   | 15   | 13 | 12  | 10,5 | 8,5 | 5  |    |    |     | 8 | 11/2"                               |                     |
| DRX 15 T     |          |      | -         | 2,8        |   |    |    |      |      |    |     |      |     |    |    |    |     |   |                                     |                     |
| DRX 20 T     | 2        | 1,5  | -         | 3,6        |   |    |    | 24   | 22,5 | 21 | 20  | 18   | 16  | 15 | 12 | 8  | 4,5 | 1 | 8                                   | 11/2"               |



# DG

aguas fecales drenaje  
*drainage waste water*



### Aplicaciones:

Bomba centrífuga sumergible con camisa de acero inoxidable idónea para el desagüe de aguas sucias y cargadas en general.

### Características constructivas:

Cuerpo impulsión, tapa superior motor y turbina en fundición de hierro. Eje bomba, filtro y camisa en acero inoxidable AISI-304. Dispone de doble sello mecánico con cámara intermedia de aceite atóxico.

### Motor:

Motor en seco, refrigerado mediante líquido bombeado. Versiones monofásicas incorporan una protección termo amperimétrica. Temperatura del líquido: +0°C a +40° C. Aislamiento Clase F.



### Applications:

*Submersible centrifugal pump with stainless steel sleeve that is ideal for draining dirty waters and waters that are generally loaded.*

### Constructive characteristics:

*Pump body, upper motor cover and impeller in cast iron. Pump shaft, strainer and sleeve in stainless steel AISI-304. Double mechanical seal with intermediate oil chamber.*

### Motor:

*Dry motor, cooled with the pumped liquid. Single phase pumps includes a thermal protection. Temperature of the liquid: from + 0°C to +40°C. Issolation Class F.*

| Tipo<br>Type   | Cond.<br>µF | Potencia |     | "A"       |            | Altura m.c.a. / Height w.c.m. |    |      |      |    |      |    |    |    | Paso<br>Solido<br>mm. | Ø<br>Imp. |
|----------------|-------------|----------|-----|-----------|------------|-------------------------------|----|------|------|----|------|----|----|----|-----------------------|-----------|
|                |             | HP       | KW  | II<br>230 | III<br>400 | 3                             | 6  | 9    | 12   | 15 | 18   | 21 | 24 | 27 |                       |           |
|                |             |          |     |           |            | Caudal m³/h / Flow m³/h       |    |      |      |    |      |    |    |    |                       |           |
| <b>DG 20 T</b> | -           | 2        | 1,5 | -         | 3,3        | 46                            | 40 | 32   | 23,5 | 13 | 3    | -  | -  | -  | 10                    | 2"        |
| <b>DG 30 T</b> | -           | 3        | 2,2 | -         | 4,8        | 57                            | 50 | 42,5 | 33   | 24 | 12,5 | 2  | -  | -  | 10                    | 2"        |
| <b>DG 50 T</b> | -           | 5        | 3,7 | -         | 7,9        | 72                            | 66 | 60   | 53   | 45 | 38   | 28 | 18 | 8  | 10                    | 3"        |

## ACCESORIOS DE INSTALACIÓN



**VÁLVULAS DE COMPUERTA / GATE VALVES**



**ZÓCALOS DE ANCLAJE / PEDESTAL KITS**



**INTERRUPTORES DE NIVEL DE 6 Y 15 METROS  
6 AND 15 METERS FLOAT SWITCHES**



**VÁLVULAS DE RETENCIÓN  
NON RETURN VALVES**



**CUADROS DE PROTECCIÓN Y MANIOBRA  
CONTROL PANELS**

# CONTROL Y PROTECCIÓN

## VARIADORES DE FRECUENCIA

**138**

**SELECCIÓN DISPOSITIVOS  
DE CONTROL  
CONTROL DEVICES SELECTION**

**139**

**[e] MOTION**

**140**

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**141**

**[e] POOL**

## CUADROS ELÉCTRICOS

**142**

**EASYTRONIC**

**144**

**SMART**

**145**

**PISCINAS / POZOS  
SWIMMING POOLS / BOREHOLE**

**146**

**VARIADOR DE  
FRECUENCIA  
FREQUENCY DRIVE**

**147**

**ARRANCADOR SUAVE  
SOFT STARTER**

**148**

**PRESIÓN Y FECALES  
PRESSURE AND SEWAGE**

**149**

**CONTRA INCENDIOS  
FIRE FIGHTING**



### Tabla de selección rápida

La siguiente tabla muestra la compatibilidad de muchas de nuestras bombas con los dispositivos de control y maniobra electrónicos disponibles.

Es importante tener en cuenta la limitación de potencia que se indica para cada dispositivo, ya que este puede ser compatible con solo una parte de las bombas indicadas, en función de la potencia del motor de la bomba.



### Quick selection table

The following table shows the compatibility of many of our pumps with available electronic control and maneuvering devices.

It is important to take into account the power limitation indicated for each device, since it may be compatible with only a part of the indicated pumps, depending on the power of the pump motor.

| Tabla de selección rápida<br><i>Quick selection table</i> |                                  | Cuadro electrónico para bombas de piscina de uso privado o comunitario hasta 5,5HP<br><i>Electronic panel for pool pumps for private or community use up to 5.5HP</i> | Variador de velocidad para bombas de uso privado o comunitario hasta 5,5HP<br><i>Variable speed drive for private or commercial use pumps up to 5.5HP</i> | Variador de velocidad para bombas de piscina pública hasta 20HP<br><i>Variable speed drive for public pool pumps up to 20HP</i> | Cuadro electrónico para bombas de aguas sucias, bombas de presión y bombas de pozo profundo hasta 5,5HP<br><i>Control panel for waste water pumps, pressure pumps and deep well pumps up to 5.5HP</i> | Variador de frecuencia para bombas de presión hasta 20HP<br><i>Variable frequency drive for pressure pumps up to 20HP</i> |
|---|----------------------------------|---|---|---|---|---|
| Aplicación<br><i>Application</i>                          | Modelo bomba<br><i>Pump type</i> | SMART POOL<br>SMART POOL PRO  | [e]JOY  | [e]POOL   | EASYTRONIC<br>EASYTRONIC ONE  | [e]MOTION   |
| PISCINA<br><i>SWIMMING POOL</i>                           | OPTIMA                           | ✓   | ✓   | ✓   | -   | -   |
|   | WINNER                           | ✓   | VSD WINNER  | ✓   | -   | -   |
|   | SUPRA                            | ✓   | VSD SUPRA   | ✓   | -   | -   |
|   | MAGNUS                           | -   | ✓   | VSD MAGNUS  | -   | -   |
|   | BRAVUS                           | ✓   | VSD BRAVUS  | ✓   | -   | -   |
|   | KONTRA                           | -   | ✓   | VSD KONTRA  | -   | -   |
|   | CF-2 - HF-2                      | -   | ✓   | ✓   | -   | -   |
| CF-4 - HF-4   | -                                | ✓   | ✓   | -   | -   |   |
| BR-2  | -                                | ✓   | ✓   | -   | -   |   |
| SUPERFICIE<br><i>SURFACE</i>                              | SIGMA                            | -   | -   | -   | ✓   | ✓   |
|   | JET                              | -   | -   | -   | ✓   | ✓   |
|   | AP                               | -   | -   | -   | ✓   | ✓   |
|   | PE                               | -   | -   | -   | ✓   | ✓   |
| SUMERGIBLES<br><i>SUBMERSIBLES</i>                        | DIVERTECH                        | -   | -   | -   | ✓   | ✓   |
|   | NOVA - FEKA                      | -   | -   | -   | ✓   | -   |
|   | MINI DRX                         | -   | -   | -   | ✓   | -   |
| VERTICALES<br><i>VERTICAL</i>                             | V-NOX                            | -   | -   | -   | ✓   | ✓   |
|   | XV-F                             | -   | -   | -   | ✓   | ✓   |
|   | XVN-F                            | -   | -   | -   | ✓   | ✓   |
|   | VAT                              | -   | -   | -   | ✓   | ✓   |
| RIEGO<br><i>IRRIGATION</i>                                | K                                | -   | -   | -   | ✓   | ✓   |
|   | CB                               | -   | -   | -   | ✓   | ✓   |
|   | KI                               | -   | -   | -   | ✓   | ✓   |
| TRASVASE<br><i>TRANSFER</i>                               | MN                               | -   | -   | -   | ✓   | ✓   |
|   | NKM-G - NKP-G                    | -   | -   | -   | ✓   | ✓   |
|   | KDN                              | -   | -   | -   | -   | ✓   |
| POZO PROFUNDO<br><i>DEEP WELL</i>                         | AR                               | -   | -   | -   | ✓   | ✓   |
|   | SP                               | -   | -   | -   | ✓   | ✓   |
|   | AS6                              | -   | -   | -   | -   | ✓   |
|   | SX                               | -   | -   | -   | -   | ✓   |
| AGUAS SUCIAS<br><i>WASTE WATER</i>                        | VORT                             | -   | -   | -   | ✓   | -   |
|   | COMPACTA                         | -   | -   | -   | ✓   | -   |
|   | VG / VN                          | -   | -   | -   | ✓   | -   |
|   | GRIX/GX/GT                       | -   | -   | -   | ✓   | -   |
|   | HT                               | -   | -   | -   | ✓   | -   |
|   | M                                | -   | -   | -   | ✓   | -   |
|   | VT                               | -   | -   | -   | -   | -   |
|   | DRX                              | -   | -   | -   | ✓   | -   |
| DG  | -                                | -   | -   | ✓   | -   |   |

# [e]MOTION



## Descripción:

El nuevo variador de frecuencia [e]MOTION es un sistema de control a través de la modulación de frecuencia o velocidad para conseguir un gran confort y reducir al máximo los costes energéticos, además de los siguientes beneficios:

- Presión totalmente fija
- Ahorro energético
- Trabajo muy silencioso
- Conectividad total
- Versatilidad total
- Puesta en marcha extremadamente simple
- Protege la instalación
- Gran display LCD

## Ventajas adicionales:

- Protección contra sobre tensiones
- Protección contra sobreconsumo del motor
- Protección contra fluctuaciones eléctricas
- Protección contra trabajo en seco
- Protección contra rotura de tuberías
- Ajustes finos protegidos por contraseña
- Reset automático de protecciones
- Histórico de fallos y avisos
- Contador de parámetros mas importantes



## Description:

The new frequency inverter [e]MOTION is a new control System by frequency or speed modulation to get great comfort and minimize the energy costs plus the following benefits:

- Extremely fixed pressure
- Energy saving
- Very silent working
- Full connectivity
- Full versatility
- Start-up extremely simple
- Protect the installation
- Big LCD display

## Additional advantages:

- Over pressure protection
- Over current protection
- Voltage fluctuations protection
- Dry running protection
- Broken pipe protection
- Fine settings blocked by password
- Automatic reset of protections
- Failures and incidents history
- Counter of the most important parameters

| Tipo / Type              | Tension Entrada<br>Supply Voltage | Tension Salida<br>Motor | Amperaje Máximo<br>Max. Consumption | Potencia / Power |     |
|--------------------------|-----------------------------------|-------------------------|-------------------------------------|------------------|-----|
|                          |                                   |                         |                                     | kW               | HP  |
| <b>(e)motion MT2-11A</b> | 1 ~ 230 V                         | 3 ~ 230 V               | 11 A                                | 2,2              | 3   |
| <b>(e)motion TT3-11A</b> | 3 ~ 400 V                         | 3 ~ 400 V               | 11 A                                | 4                | 5,5 |
| <b>(e)motion TT3-30A</b> | 3 ~ 400 V                         | 3 ~ 400 V               | 30 A                                | 15               | 20  |

# [e]JOY

Variador de velocidad para bombas de piscina privada  
*Variable speed drive for private pool pumps*



Soporte de pared opcional  
*Wall support on demand*



El nuevo variador de velocidad [e]joy es un nuevo sistema de control de velocidad para bombas, con el objetivo de conseguir un gran confort y reducir al máximo los costes energéticos, además de los siguientes beneficios:

- 3 velocidades seleccionables desde teclado
- 5 ciclos de filtración diarios configurables
- Programa para la limpieza del filtro
- Control de iluminación de la piscina
- Pulsador AUT para hacer el sistema autónomo
- Función SKIMMING de limpieza de la superficie del agua
- Hasta 4 entradas para controlar la velocidad de la bomba externamente
- 2 salidas para activación de clorador salino, monitorización del estado de la bomba, etc...
- Protección de las bombas por sobre tensión y sobre consumo eléctrico
- Protección contra el trabajo en seco
- Protección contra rotura de tubería.

**Además incorpora una serie de ajustes automáticos como son:**

- Reset automático de las protecciones de la bomba
- Registro de fallos e incidencias
- Contadores de horas de funcionamiento



*The new variable speed drive [e]joy is a new speed control system for pumps, with the aim of achieving great comfort and minimizing energy costs, in addition to the following benefits:*

- 3 selectable keyboard speeds
- 5 configurable daily filtration cycles
- Filter cleaning program
- Pool lighting control
- AUT button to make the system autonomous
- SKIMMING water surface cleaning function
- Up to 4 inputs to control the pump speed externally
- 2 outputs for saline chlorinator activation, pump status monitoring, etc ...
- Protection of pumps for over voltage and electrical consumption
- Protection against dry running
- Protection against pipe breakage

**It also incorporates a series of automatic adjustments such as:**

- Automatic reset of pump protections
- Record of failures and incidents
- Operating hours counters

# [e]POOL

Variador de velocidad para bombas de piscina publica  
*Variable speed drive for commercial pool pumps*



**[e]Pool Controller**



El nuevo variador de velocidad [e]pool es valido para todas las bombas de piscina pública del mercado, desde 3HP hasta 20HP. El Sistema permite la programación de varios ciclos de filtración diarios con diferente velocidad de funcionamiento para cada ciclo. En instalaciones con varias bombas, el variador se comunicará y alternará con resto de variadores para que las bombas trabajen el mismo número de horas. Además, es capaz de hacer funcionar varias bombas a la vez. Gracias a un sencillo asistente, se proporciona la información necesaria a la bomba para tener una instalación completamente operativa. Con la ayuda de un transductor de presión y un pequeño cuadro eléctrico (se suministran a parte) es capaz de efectuar la limpieza automática de los filtros de arena, si estos disponen de válvulas motorizadas.



soporte de pared opcional  
*wall support on demand*



*The new [e]pool speed drive is available for all commercial swimming pool pumps on market, from 3HP to 20HP. The system allows the programming of several cycles per day with different speed for each cycle. In installations with several pumps,-*

*the drive communicate and alternate to the otherspeed drives to work the pumps the same amount of hours. Capable to work more than one pump at the same time. The software is specially developed for the automation of the pump. An easy setup wizard is provided to leave the pump and the installation fully operational. With the help of a pressure transducer and a small electrical panel (supplied separately) it is capable of automatically cleaning the sand filters, if they have motorized valves.*

## Características principales:

### • Válido para todas las bombas del mercado

- Ahorro energético muy significativo debido a que la bomba puede modificar su velocidad de trabajo a los requerimientos de la instalación.
- Diferentes velocidades de trabajo para diferentes programaciones.
- Comunicación entre varias bombas.
- Alternancia de trabajo por tiempo.
- **Sistema de limpieza automático de filtros**
- Protección de sobrecarga del motor por consumo.
- Sistema de auto aprendizaje para la búsqueda constante de los parámetros que determinan un funcionamiento en seco.

## Main characteristics:

### • Valid for all pumps on the market

- Very significant energy saving due to the pump can modify his working speed to the installation requirements.
- Different work speeds by different schedules.
- Communication between pumps.
- Alternate working by time.
- **Automatic filter back wash cleaning.**
- Motor overload protection by consumption.
- Self learning system for constant search of the parameters that determine the dry running.

# EASYTRONIC

un solo cuadro para todos los usos:

- ▶ eq. presión, aguas sucias, bomba pozo, combinado
- ▶ controla 1 y 2 bombas
- ▶ hasta 5,5 HP cada bomba
- ▶ 230V mono, 230V trif, 400V trif, 50Hz y 60Hz

*one control box for all uses:*

- ▶ *booster set, waste water, well pumps, combined*
- ▶ *control 1 and 2 pumps*
- ▶ *up to 5,5HP each pump*
- ▶ *230V mono, 230V three, 400V three, 50Hz and 60Hz*



Aguas Sucias / Waste Water  
Grupos de presión / Booster sets  
Bomba de pozo / Borehole pumps  
2 bombas independientes / 2 independent pumps





### PARA 1 Y 2 BOMBAS HASTA 5,5HP

EASYTRONIC es cuadro electrónico que puede usarse tanto para controlar un grupo de presión, un conjunto de bombas de aguas sucias, instalación con una bomba de pozo, o 2 bombas completamente independientes entre si, con la misma tensión de alimentación, cada una de estas bombas con su sistema de activación, paro y protección completamente independiente. Puede funcionar en una instalación en una instalación monofásica o trifásica y en función de la alimentación suministrada podrá controlar y proteger 1 o 2 bombas monofásica o trifásicas.

#### Características principales:

- Control de 1 o 2 bombas
- Alimentación monofásica y trifásica (50-60Hz)
- Control de intensidad de motor por fase
- Protección contra trabajo en seco
- Protección contra sobreconsumo del motor
- Control de fallo/falta/simetría de fases
- Gestión de la alternancia de arranque
- Funcionamiento individual o conjunto
- Entrada 4-20mA para transductor de presión
- Entrada desde programador de riego
- Control de arranque de bombas por temporizador
- Admite sondas de pozo y de depósito
- Alarma acústica de sobrenivel
- Contador de horas de funcionamiento
- Registro de fallos de las bombas
- Reset automático de protecciones

- ▶ También disponible para control de 1 sola bomba
- ▶ Also available to control a single pump



### FOR 1 AND 2 PUMPS UP TO 5,5HP

EASYTRONIC is an electronic panel that can be used to control a pressure group, a set of dirty water pumps, installation with a well pump, or 2 pumps completely independent of each other, with the same supply voltage, each of these pumps with its completely independent start, stop and protection system. It can work in a single-phase or three-phase installation and depending on the power supplied it can control and protect 1 or 2 single-phase or three-phase pumps.

#### Main features:

- Control of 1 or 2 pumps
- Single-phase and three-phase power (50-60Hz)
- Motor current control per phase
- Dry work protection
- Motor overconsumption protection
- Phase failure / fault / symmetry control
- Start alternation management
- Individual or joint operation
- 4-20mA input for pressure transducer
- Input from irrigation programmer
- Timer pump start control
- Supports well and reservoir probes
- Acoustic over-level alarm
- Operating hours counter
- Pump fault log
- Automatic reset of protections



Dispone de las mismas características que el EASYTRONIC 2  
All same characteristics as EASYTRONIC 2

# SMART

cuadro para bombas de piscina  
control panel for pool pumps



Fácil instalación  
Easy installation



Control de colores en lámparas led RGB  
Control of colours for RGB LED lamps



Control filtración  
Filtration control



Protección de la bomba contra el trabajo en seco  
Dry running pump protection



Activación mediante señal desde bomba de calor  
Activation by external signal from heat pump



Activación manual de la bomba y los focos  
Manual activation for pump and focus



Control focos  
Lights control



Protección por sobreconsumo  
Overload protection



Función anticongelación  
Anti freeze function



Alertas de mantenimiento  
Maintenance alerts



Pantalla multilinguaje  
Multilanguage display



Función skimming  
Skimming control



Control de clorador salino  
Salt chlorinator control



El nuevo SMART Control es un sistema de control integral de la piscina. Este cuadro electrónico nos permite una programación fácil e intuitiva y un control completo de la piscina. Incorpora las máximas protecciones para la bomba (trabajo en seco y sobre consumo). Incluye además relojes programadores de filtración, entradas/salidas para el sistema de iluminación, Clorador salino, Bomba de Calor, sonda de temperatura, etc...

**Puede ser instalado en pared o sobre motor en OPTIMAS y WINNER.**

- **Válido para todas las bombas del mercado** (SMART POOL para versiones monofásicas, SMART POOL PRO para versiones monofásicas y trifásicas)
- Instalación fácil e intuitiva
- Control completo de nuestra piscina
- Incorpora las protecciones necesarias para la bomba (trabajo en seco y sobre consumo)
- Seguridad para las personas
- Reloj programador para el control de la filtración y la iluminación (también leds RGB)
- Entradas y salidas para el control y la gestión del sistema de iluminación
- Control de clorador salino
- Bomba de calor
- Sonda de temperatura PT-100, etc...



The new Smart Control panel is a device for controlling the whole pool. This electronic device allows an easy and intuitive programming and a full command of the pool. Includes all the necessary protection for the pump (dry running protection and overload protection). Includes filtration timers and input/outputs for the control of lights, salt chlorinator, heat pump, PT-100 temperature probe... **It can be installed on wall or on motor in OPTIMAS and WINNER.**

- **Valid for all pumps on the market** (SMART POOL for single-phase pumps and SMART POOL PRO for single-phase and three-phase pumps)
- Easy and intuitive installation
- Complete control of our pool
- Incorporates the necessary protections for the pump (dry running protection and overload protection)
- Security for people
- Programmer clock for filtering and lighting control (also RGB leds)
- Inputs and outputs for control and management of the lighting system
- Salt chlorinator control
- Heat pump
- PT-100 temperature probe, etc...

# PISCINAS

## SWIMMING POOLS



### CUADROS ELECTRICOS PARA BOMBAS DE PISCINAS

#### Tensiones:

230 V monofásico (hasta 3 CV), 230 V trifásico (hasta 5,5 CV), 400 V trifásico, voltajes especiales (50-60 Hz)

#### Características generales:

|                           |  |
|---------------------------|--|
| <b>Armario</b>            | Cajas de material plástico IP-55   |
| <b>Selector de marcha</b> | Selector de 2 posiciones MANUAL - AUTOMÁTICO   |
| <b>Protecciones</b>       | Guardamotor bomba (disyuntor magnetotérmico)   |
| <b>Accionamiento</b>      | Minicontactor  |
| <b>Protección focos</b>   | Magnetotérmico 2 polos 10 A  |
| <b>Programador</b>        | Electromecánico, diario, regulación mínima 15 min.   |
| <b>Transformadores</b>    | Transformador de seguridad apantallado 350 VA.<br>Cumple UNE-20.339/EN-61558/MIPT028/MIPT035 |

#### Funcionamiento:

Equipos destinados a la filtración de piscinas con una sola bomba monofásicas hasta 3 cv y trifásicas hasta 5,5 cv. La orden de filtración puede ser manual o automática a traves del reloj programador. Pueden incorporar 1, 2 o 3 transformadores de 230/12 voltios para focos de 300 watos. El encendido de estos es manual, pero bajo demanda se pueden incorporar sistemas con mando a distancia, o programadores automáticos.

# POZOS



### CUADROS ELECTRICOS PARA BOMBAS SUMERGIBLES DE POZO

#### Tensiones:

230 V monofásico (hasta 2 CV), 400 V trifásico (hasta 5,5 CV)

#### Características generales:

|                           |  |
|---------------------------|--|
| <b>Armario</b>            | Cajas de material plástico IP-54   |
| <b>Selector de marcha</b> | Selector de 3 posiciones MAN. - 0 - AUT.   |
| <b>Protecciones</b>       | Contactor y relé térmico (sólo contactor en cuadro sin sondas)                                   |
| <b>Accionamiento</b>      | Contactor para arranque directo  |
| <b>Indicadores</b>        | Piloto verde de bomba en marcha<br>Piloto rojo de disparo por sobrecarga                         |
| <b>Control de nivel</b>   | Relé de control de sondas pozo (cuadro CSP)<br>Por consumo eléctrico (cuadro digital sin sondas) |
| <b>Sondas</b>             | Incorpora 3 sondas colgantes (sólo el cuadro CSP)  |

#### Funcionamiento:

Equipos destinados al control de bombas sumergidas monofásicas hasta 3 cv, trifásicas y voltajes especiales (50-60 Hz). Incorpora un selector de tres posiciones MAN - PARO - AUTOMÁTICO. En posición manual el funcionamiento es continuado y la bomba solo está protegida de sobrecargas, en automático la orden de marcha puede ser exterior (presostato) o por el controlador de nivel.

# VARIADOR DE FRECUENCIA

## FREQUENCY DRIVE



### Tensiones:

400 V trifásico, voltajes especiales (50-60 Hz)

### Características generales:

#### Tipo de equipo

Básico: 1 bomba regulada + auxiliares  
Alternado: rotación de la bomba regulada (bajo demanda)

#### Armario

Metálico con ventilación forzada

#### Int. general

En todas las unidades

#### Indicadores

Piloto verde de bomba en marcha. Piloto rojo de disparo por sobrecarga  
Piloto amarillo de alarma nivel

#### Selectores de marcha

Selector de 3 posiciones presostatos - 0 - variador

#### Protecciones variador

Fusibles rápidos tipo GG/GL

#### Protecciones bombas aux.

Guardamotor para bombas hasta 15 cv (disyuntor magnetotérmico)  
Fusibles y relés térmicos para potencias superiores

#### Accionamiento

Arranque directo con un contactor para bombas inferiores a 7,5 cv.  
Arranque estrella - triángulo para potencias superiores a 5,5 cv.

#### Alternancia

Básico: 1 bomba regulada + rotación de todas las auxiliares  
Alternado: rotación de la bomba regulada (bajo demanda) Rotación total.

#### Emergencia

Función de emergencia por presostatos de bombas auxiliares  
en caso de avería del variador

#### Material auxiliar

Transductor de presión 0-10 / 0-16 bar 4-20 mA

### Opciones:

#### Indicadores

Voltímetro general / Amperímetro por bomba / Cuenta horas

#### Accionamiento

Arranadores suaves en las bombas auxiliares

#### Protecciones

Diferenciales de alta inmunidad contra disparos intpestivos

#### Consignas exteriores

Posibilidad de trabajar con varias consignas de presión  
fijas o variables indicadas por fuentes ext.

#### Señales externas

Analógicas: presión, consumo bomba regulada, velocidad, etc.  
Digitales: avería bomba, marcha, etc.

#### Aplicaciones

Bombas sumergidas / Bombeos de aguas fecales

#### Armarios

Poliéster IP-65 (para exteriores)

### Funcionamiento:

Equipos destinados a grupos de presión donde se requiera una presión constante.

Con el sistema de regulación de velocidad el equipo adapta el rendimiento de las bombas al consumo de agua que hay en cada momento.

#### Principales ventajas:

- Evitamos los constantes arranques y paros de los sistemas convencionales alargando la vida mecánica del equipo.
- Evitamos los golpes de ariete en la instalación gracias a la progresividad de equipo.
- Evitamos tener que instalar grandes acumuladores de membrana o galvanizados.
- La potencia absorbida de la red se adapta al máximo al consumo de agua, minimizando los costes, además la utilizada por el variador es casi totalmente activa.

# ARRANCADOR SUAVE

## SOFT STARTER



### Tensiones:

400 V trifásico, voltajes especiales (50-60 Hz). Todos los cuadros para todas las potencias.

### Características generales:

|                            |  |
|----------------------------|--|
| <b>Armario</b>             | Metálico para todas las potencias  |
| <b>Interruptor general</b> | De serie en todos los cuadros  |
| <b>Indicadores</b>         | Piloto verde de bomba en marcha. Piloto rojo de disparo por sobrecarga<br>Piloto amarillo de alarma sobrenivel (sólo para fecales) |
| <b>Mando</b>               | Selector de 3 posiciones MANUAL - PARO - AUTOMÁTICO por bomba  |
| <b>Protecciones</b>        | Guardamotor para bombas hasta 15 cv (disyuntor magnetotérmico)<br>Fusibles y relés térmicos para potencias superiores              |
| <b>Accionamiento</b>       | Arranque directo (3 hilos) por arrancador suave<br>Arranque a 6 hilos por arrancador suave (bajo demanda)                          |
| <b>Alternancia</b>         | 2 bombas - Alternancia de las dos.<br>3 bombas - Alternancia de la 1ª - 3ª.<br>4 bombas - Alternancia de la 1ª - 3ª y 2ª - 4ª      |
| <b>Maniobra</b>            | 230 Voltios y protegida con fusibles   |
| <b>Alarma</b>              | Los cuadros para bombas de aguas fecales disponen de una salida de tensión (230Vac) para un claxon externo de alarma de nivel      |
| <b>Conexionado</b>         | Bornero marcado y en posición elevada e inclinada para una fácil conexión de los elementos   |

### Opciones:

|                             |  |
|-----------------------------|--|
| <b>Maniobra 24 voltios</b>  | En todos los equipos   |
| <b>Alternancia 3 bombas</b> | Alternancia de todas   |
| <b>Interruptor horario</b>  | En los equipos de presión para accionar electroválvula.                  |
| <b>Maniobra</b>             | Cualquier tipo de maniobra especial                                      |
| <b>Sondas</b>               | Sondas pozo o depósito o, sondas pozo y depósito para equipos de presión |

### Funcionamiento:

#### Cuadros para equipos de presión:

Materiales periféricos: Presostatos de trabajo y boya de paro nivel o sondas (si se han solicitado).

En manual funciona de forma continuada (sin atender a la presión de impulsión) y solo se para por la boya de paro o por disparo térmico.

En automático conserva las mismas condiciones que en manual, pero el funcionamiento está condicionado a los presostatos de trabajo; estos deben estar regulados en cascada. En equipos de más de una bomba, se alterna el arranque de las bombas.

#### Cuadros para bombas de aguas fecales:

Material periférico: Boyas de marcha, paro, sobrenivel y claxon exterior de alarma sobrenivel.

En manual el funcionamiento es continuado y solo se para por la boya de paro o por sobrecarga de la bomba.

En automático conserva las mismas condiciones que en manual, pero la orden de marcha se efectúa por las boyas. En equipos de más de una bomba, se alterna el arranque de las bombas. La boya de alarma nivel acciona un claxon exterior, (bajo demanda se puede instalar en el propio cuadro).

# PRESIÓN Y FECALES

## PRESSURE AND SEWAGE



**Tensiones:**

230 V monofásico (hasta 3 CV), 230 V trifásico (hasta 20 CV), 400 V trifásico, voltajes especiales (50-60 Hz)

**Características generales:**

|                            |  |
|----------------------------|--|
| <b>Armario</b>             | Poliéster 1 y 2 bombas en potencias inferiores a 7,5 cv.<br>Metálico en todo el resto de gama  |
| <b>Interruptor general</b> | En todos los equipos de 1 y 2 bombas con potencias superiores a 7,5 cv.<br>De serie en equipos de 3 y 4 bombas                                 |
| <b>Indicadores</b>         | Piloto verde de bomba en marcha. Piloto rojo de disparo por sobrecarga<br>Piloto rojo intermitente de alarma de sobrenivel (sólo para fecales) |
| <b>Mando</b>               | Selector de 3 posiciones MANUAL - PARO - AUTOMÁTICO por bomba  |
| <b>Protecciones</b>        | Guardamotor para bombas hasta 15 cv (disyuntor magnetotérmico)<br>Fusibles y relés térmicos para potencias superiores                          |
| <b>Accionamiento</b>       | Arranque directo con un contactor para bombas inferiores a 7,5 cv.<br>Arranque estrella triángulo para potencias superiores a 5,5 cv.          |
| <b>Alternancia</b>         | 2 bombas - Alternancia de las dos.<br>3 bombas - Alternancia de la 1ª - 3ª.<br>4 bombas - Alternancia de la 1ª - 3ª y 2ª - 4ª                  |
| <b>Maniobra</b>            | 230 Voltios  |
| <b>Alarma</b>              | En los equipos para aguas fecales salida de tensión para claxon externo de alarma de nivel.  |

**Opciones:**

|                               |   |
|-------------------------------|---|
| <b>Maniobra 24 voltios</b>    | En todos los equipos de presión y aguas fecales.                          |
| <b>Alternancia 3-4 bombas</b> | Alternancia de todas  |
| <b>Armario metálico</b>       | En los equipos de 1 y 2 bombas inferiores a 7,5 cv                        |
| <b>Interruptor general</b>    | En los equipos de 1 y 2 bombas inferiores a 7,5 cv.                       |
| <b>Interruptor horario</b>    | En los equipos de presión para accionar electroválvula.                   |
| <b>Maniobra</b>               | En equipos de aguas fecales, boyas independientes de paro para cada bomba |

**Funcionamiento:**

**Cuadros para equipos de presión:**

Materiales periféricos: Presostatos de trabajo y boya de paro nivel (o presostato inversado en bombeos desde la red general).  
 En manual funciona de forma continuada (sin atender a la presión de impulsión) y solo se para por la boya de paro o por disparo térmico.

En automático conserva las mismas condiciones que en manual, pero el funcionamiento está condicionado a los presostatos de trabajo; estos deben estar regulados en cascada. En equipos de más de una bomba, se alterna el arranque de las bombas.

**Cuadros para bombas de aguas fecales:**

Material periférico: Boyas de marcha, paro, sobrenivel y claxon exterior de alarma sobrenivel.

En manual el funcionamiento es continuado y solo se para por la boya de paro o por sobrecarga de la bomba.

En automático conserva las mismas condiciones que en manual, pero la orden de marcha se efectúa por las boyas. En equipos de más de una bomba, se alterna el arranque de las bombas. La boya de alarma nivel acciona un claxon exterior, (bajo demanda se puede instalar en el propio cuadro). La boya de nivel mínimo es para todas las bombas, (bajo demanda se pueden colocar boyas de paro independientes para cada bomba).

# CONTRA INCENDIOS

## FIRE FIGHTING



### Cuadro de arranque y control para bombas eléctricas y diesel según UNE 23500:2018.

Construido estrictamente bajo la norma **UNE 23500:2018**. Incorpora panel frontal de policarbonato para fácil comprensión de toda la simbología, dentro del mismo armario encontraremos el arranque, control y protección de la bomba auxiliar o jockey.

Los cuadros están compuestos por armario metálico IP55 color rojo Ral 3000, interruptor seccionador general, arrancadores para las bombas, selectores tres posiciones para bomba principal y jockey. Pulsadores de prueba de lámparas y alarmas acústicas. Pulsador de paro de bomba principal. Protección térmica para bomba jockey, voltímetro, amperímetro, contador de arranques jockey, sirena de alarma, batería de soporte. Igualmente, el cuadro de control de bomba diesel, añade sus particularidades, como tacómetro, relojes de temperatura y presión de aceite. En definitiva nuestros cuadros para este tipo de contraincendios incorporan todas las exigencias reflejadas en la normativa **UNE 23500:2018**.

### Cuadro de arranque y control para bombas eléctricas y diesel según CEPREVEN RT2 - ABA.

Construido estrictamente bajo las reglas técnicas **CEPREVEN**. Incorpora panel frontal de policarbonato para fácil comprensión de toda la simbología.

Los cuadros están compuestos por armario metálico IP55 color rojo Ral 3000, interruptor seccionador general, arrancadores para las bombas, selectores tres posiciones para bomba principal y jockey. Pulsadores de prueba de lámparas y alarmas acústicas. Pulsador de paro de bomba principal. Protección térmica para bomba jockey, voltímetro, amperímetro, contador de arranques jockey, sirena de alarma, batería de soporte. Igualmente, el cuadro de control de bomba diesel, añade sus particularidades, como 2 cargadores de baterías, prueba de 6 intentos de arranque, pulsador de marcha por batería, amperímetro por batería, tacómetro, relojes de temperatura y presión de aceite. En definitiva nuestros cuadros para este tipo de contraincendios incorporan todas las exigencias reflejadas en la regla técnica **CEPREVEN RT2 - ABA**.





# EQUIPOS PRESIÓN Y CONTRAINCENDIOS

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**CONTRA INCENDIOS  
FIRE FIGHTING UNITS**

# EASYTRONIC



## Descripción:

Los equipos EASYTRONIC son grupos de presión para 1 y 2 bombas hasta 5.5HP (11A), que permiten el arranque directo de las bombas además de las siguientes ventajas:

- Bombas monofásicas y trifásicas
- Activación por presostatos / boyas / transductor de presión
- Paro por boya / presostato de mínima / sondas de pozo
- Alternancia y funcionamiento conjunto
- Control de amperaje independiente por bomba
- Detección de trabajo en seco y sobreconsumo
- Activación mediante señal de programador de riego
- Activación de las bombas por control horario
- Relés para monitorizar el estado del equipo
- Gran display multilingüaje



## Description:

The EASYTRONIC equipments are booster sets for 1 and 2 pumps up to 5.5HP (11A), which allow direct starting of the pumps in addition to the following advantages:

- Single-phase and three-phase pumps
- Activation by pressure switches / float / pressure transducer
- Stop by float / minimum pressure switch / well probes
- Alternation and joint operation
- Independent amperage control per pump
- Detection of dry running and overcurrent
- Activation by irrigation programmer signal
- Activation of the pumps by time control
- Relays to monitor the status of the equipment
- Large multilanguage display
- Large multilanguage display

# [e]MOTION



## Descripción:

Los grupos con variador de frecuencia [e]motion, que permiten formar conjuntos de hasta 8 bombas de 20HP de potencia, son el máximo exponente en términos de ahorro energético, fácil programación y múltiples opciones de configuración. Incluyen las siguientes especificaciones generales:

- Hasta 8 bombas
- Bombas de hasta 20HP (30A)
- Adaptación instantánea de la velocidad de las bombas a las necesidades de caudal de la instalación.
- Mínimo consumo energético
- Detección de trabajo sin agua y sobre intensidad de las bombas
- Alternancia y funcionamiento conjunto
- Relés para monitorizar el estado del equipo
- Gran display multilingüaje



## Description:

*The groups with [e]motion frequency inverter, which allow to form sets of up to 8 pumps of 20HP of power, are the maximum exponent in terms of energy saving, easy programming and multiple configuration options. They include the following general specifications:*

- *Up to 8 pumps*
- *Pumps up to 20HP (30A)*
- *Instantaneous adaptation of the speed of the pumps to the flow needs of the installation.*
- *Minimum energy consumption*
- *Detection of work without water and overcurrent*
- *Alternation and joint operation*
- *Relays to monitor the status of the equipment*
- *Large multilanguage display*

# EQUIPOS CUADRO ELÉCTRICO



## APLICACIONES:

Los equipos de presión son conjuntos diseñados para el suministro automático de agua a presión a distintos tipos de instalaciones como pueden ser: bloques de viviendas, apartamentos, urbanizaciones, riegos, edificios comerciales, hoteles, instalaciones deportivas, industrias, etc.

## Equipos compuestos por:

Hasta 4 bombas, manómetro de glicerina, bancada general con soporte cuadro eléctrico, colector de impulsión compuesto con válvulas de bola y válvulas de retención y cuadro eléctrico de mando y protección. Para grupos con variador de frecuencia se incluye transductor de presión y un pequeño acumulador de membrana.



## APPLICATIONS:

The pressure units are units designed to automatically supply pressurised water to different kinds of installations, such as: housing blocks, apartments, housing estates, irrigation, commercial buildings, hotels, sport installations, industries, etc.

## Our booster sets includes:

Up to 4 pumps, pressure gauges, 1 glycerine manometer, 1 base plate with control box support, general outlet collector with one retention valve and close valve for each pump, electrical control box with standard equipment or with inverter including the pressure trasducer.

# CÁLCULO GRUPOS DE PRESIÓN

## CÁLCULO DEL CAUDAL NECESARIO / DETERMINATION OF THE NECESSARY FLOW CAUDAL DE LA BOMBA EN / PUMPS FLOW IN m<sup>3</sup>/h

| Tipo de vivienda<br>Type of housing | Nº de viviendas / Nº of housings   |      |      |       |       |       |       |       |        |
|-------------------------------------|--|------|------|-------|-------|-------|-------|-------|--------|
|                                     | 1  | 5    | 10   | 15    | 20-30 | 31-50 | 51-70 | 71-90 | 91-100 |
|                                     | Caudal necesario (m <sup>3</sup> /h) / Required flow (m <sup>3</sup> /h) |      |      |       |       |       |       |       |        |
| <b>1 Baño</b>                       | 2,30   | 5,29 | 7,42 | 9,00  | 10,80 | 12,30 | 13,39 | 14,25 | 14,62  |
| <b>2 Baños</b>                      | 2,69   | 6,10 | 8,51 | 9,71  | 11,62 | 13,22 | 14,38 | 15,29 | 15,69  |
| <b>3 Baños</b>                      | 3,10   | 6,94 | 9,36 | 10,41 | 12,44 | 14,13 | 15,35 | 16,32 | 16,74  |

## DETERMINACIÓN DE LA PRESIÓN DE TRABAJO / DETERMINATION OF THE WORKING PRESSURE:



La Altura Manométrica requerida o Presión de arranque vendrá definida por la siguiente suma:

$$Pa = Hg + Pc + Hr + Ha$$

**Ejemplo:** tenemos un edificio de 4 plantas + 2 sótanos, el grupo de presión está situado en el primer sótano y con una altura de aspiración de 3,5 m.c.a.

**La presión de servicio o de trabajo será:**

- **Hg** (Altura Geométrica): (4 plantas + 1 sótano) x 3 m.c.a. = 15 m.c.a.
- **Pc** (Pérdidas de Carga 15% de Hg): 15% de 15 m.c.a. = 2,25 m.c.a.
- **Hr** (Presión necesaria en el punto más alto) = 20 m.c.a. (orientativo)
- **Ha** (Altura de Aspiración) = 3,5 m.c.a.

$$Pa = Hg + Pc + Hr + Ha = 15 \text{ m.c.a.} + 2,25 \text{ m.c.a.} + 20 \text{ m.c.a.} + 3,5 \text{ m.c.a.}$$

$$Pa = 40,75 \text{ m.c.a.} = 4,1 \text{ bar} = \text{Presión de trabajo}$$



The Manometric Height required or starting Pressure is defined by the following sum:

$$Pa = Hg + Pc + Hr + Ha$$

**Example:** we have a 4 floor housing + 2 floor underground, the pressure unit is locate in the first floor below ground, and the suction head is 3,5 w.c.m.

**The working pressure will be:**

- **Hg** (Geometric Height): (4 floors + 2 Underfloor) x3 m.c.a. = 18 m.c.a.
- **Pc** (Load Losses): 15% de 18 m.c.a. = 2,7 m.c.a.
- **Hr** (Residual Height) = 20 m.c.a.
- **Ha** (Suction Height) = 3,5 m.c.a.

$$Pa = Hg + Pc + Hr + Ha = 18 \text{ m.c.a.} + 2,7 \text{ m.c.a.} + 20 \text{ m.c.a.} + 3,5 \text{ m.c.a.}$$

$$Pa = 44,2 \text{ m.c.a.} = 4,5 \text{ bar} = \text{Working pressure}$$



# SIGMA - V-NOX - XV-F

| TIPO BOMBA<br>PUMP TYPE     | Potencia<br>Bomba |      | CAUDAL TOTAL 4 BOMBAS / 4 PUMPS TOTAL FLOW |      |  |      |      |     |     |     |     |     |     |     |    |    |
|-----------------------------|-------------------|------|--|------|--|------|------|-----|-----|-----|-----|-----|-----|-----|----|----|
|                             |                   |      | 0  | 8    | 16   | 24   | 32   | 40  | 48  | 56  | 64  | 72  | 80  | 88  |    |    |
|                             | Pump<br>Power     |      | CAUDAL TOTAL 3 BOMBAS / 3 PUMPS TOTAL FLOW |      |  |      |      |     |     |     |     |     |     |     |    |    |
|                             |                   |      | 0  | 6    | 12   | 18   | 24   | 30  | 36  | 42  | 48  | 54  | 60  | 66  |    |    |
|                             | HP                |      | KW   |      | CAUDAL TOTAL 2 BOMBAS / 2 PUMPS TOTAL FLOW |      |      |     |     |     |     |     |     |     |    |    |
|                             |                   |      |  |      | 0  | 4    | 8    | 12  | 16  | 20  | 24  | 28  | 32  | 36  | 40 | 44 |
|                             | HP                |      | KW   |      | CAUDAL TOTAL 1 BOMBA / 1 PUMP TOTAL FLOW   |      |      |     |     |     |     |     |     |     |    |    |
| 0                           |                   |      |  |      | 2  | 4    | 6    | 8   | 10  | 12  | 14  | 16  | 18  | 20  | 22 |    |
| ALTURA m.c.a / HEIGHT w.c.m |                   |      |  |      |  |      |      |     |     |     |     |     |     |     |    |    |
| SIGMA 102                   | 0,33              | 0,25 | 23   | 15   | 1  |      |      |     |     |     |     |     |     |     |    |    |
| SIGMA 103                   | 0,5               | 0,37 | 34   | 23   | 1,5  |      |      |     |     |     |     |     |     |     |    |    |
| SIGMA 104                   | 0,75              | 0,55 | 45   | 31   | 2  |      |      |     |     |     |     |     |     |     |    |    |
| SIGMA 105                   | 1                 | 0,75 | 56   | 38   | 3  |      |      |     |     |     |     |     |     |     |    |    |
| SIGMA 202                   | 1                 | 0,75 | 23   | 21   | 18   | 13   |      |     |     |     |     |     |     |     |    |    |
| SIGMA 203                   | 1                 | 0,75 | 34   | 32   | 27,5                                       | 19   |      |     |     |     |     |     |     |     |    |    |
| SIGMA 204                   | 1,2               | 0,9  | 44   | 41,5 | 35,5                                       | 24   |      |     |     |     |     |     |     |     |    |    |
| SIGMA 205                   | 1,5               | 1,1  | 57   | 54   | 46,5                                       | 32   |      |     |     |     |     |     |     |     |    |    |
| SIGMA 303                   | 1,2               | 0,9  | 39   | 38   | 36   | 32   | 24   | 14  |     |     |     |     |     |     |    |    |
| SIGMA 304                   | 1,5               | 1,1  | 51   | 51   | 48   | 42   | 32   | 18  |     |     |     |     |     |     |    |    |
| SIGMA 305                   | 2                 | 1,5  | 65   | 64   | 59   | 52   | 40   | 24  |     |     |     |     |     |     |    |    |
| SIGMA 306                   | 3                 | 2,2  | 77   | 76   | 72   | 63   | 48   | 28  |     |     |     |     |     |     |    |    |
| SIGMA 307                   | 3                 | 2,2  | 90   | 88   | 82   | 70   | 54   | 32  |     |     |     |     |     |     |    |    |
| SIGMA 403                   | 2                 | 1,5  | 35   | 34,5 | 34   | 33   | 31,5 | 29  | 27  | 24  | 21  | 18  | 14  | 8   |    |    |
| SIGMA 404                   | 3                 | 2,2  | 44   | 43   | 42   | 41   | 37   | 35  | 32  | 28  | 24  | 21  | 16  | 10  |    |    |
| V-NOX 303                   | 1,2               | 0,9  | 39   | 38   | 36   | 32   | 24   | 14  |     |     |     |     |     |     |    |    |
| V-NOX 304                   | 1,5               | 1,1  | 51   | 50   | 48   | 42   | 32   | 18  |     |     |     |     |     |     |    |    |
| V-NOX 305                   | 2                 | 1,5  | 65   | 64   | 59   | 52   | 40   | 24  |     |     |     |     |     |     |    |    |
| V-NOX 306                   | 3                 | 2,2  | 77   | 76   | 72   | 63   | 48   | 28  |     |     |     |     |     |     |    |    |
| V-NOX 307                   | 3                 | 2,2  | 90   | 88   | 82   | 70   | 54   | 32  |     |     |     |     |     |     |    |    |
| V-NOX 308                   | 4                 | 3    | 106  | 102  | 95   | 84   | 64   | 36  |     |     |     |     |     |     |    |    |
| V-NOX 309                   | 4                 | 3    | 120  | 115  | 107  | 92   | 56   | 42  |     |     |     |     |     |     |    |    |
| V-NOX 310                   | 5,5               | 4    | 133  | 126  | 119  | 104  | 64   | 48  |     |     |     |     |     |     |    |    |
| V-NOX 403                   | 2                 | 1,5  | 35   | 34,5 | 34   | 33   | 31,5 | 29  | 27  | 24  | 21  | 18  | 14  | 8   |    |    |
| V-NOX 404                   | 3                 | 2,2  | 44   | 43   | 42   | 41   | 37   | 35  | 32  | 28  | 24  | 21  | 16  | 10  |    |    |
| V-NOX 405                   | 4                 | 3    | 55   | 54   | 53   | 51,5 | 48   | 46  | 43  | 39  | 34  | 29  | 21  | 14  |    |    |
| V-NOX 406                   | 4                 | 3    | 66   | 64,5 | 63   | 61   | 56   | 54  | 51  | 46  | 40  | 34  | 27  | 17  |    |    |
| V-NOX 407                   | 5,5               | 4    | 77   | 76   | 75   | 73   | 67   | 64  | 60  | 54  | 47  | 41  | 34  | 20  |    |    |
| XV-F 5-8                    | 1,5               | 1,1  | 52   | 48   | 43   | 34   | 22   |     |     |     |     |     |     |     |    |    |
| XV-F 5-10                   | 2                 | 1,5  | 65   | 62   | 56   | 46   | 32   |     |     |     |     |     |     |     |    |    |
| XV-F 5-14                   | 3                 | 2,2  | 93   | 90   | 82   | 67   | 47   |     |     |     |     |     |     |     |    |    |
| XV-F 5-16                   | 3                 | 2,2  | 108  | 103  | 92   | 77   | 54   |     |     |     |     |     |     |     |    |    |
| XV-F 5-20                   | 4                 | 3    | 135  | 131  | 118  | 98   | 68   |     |     |     |     |     |     |     |    |    |
| XV-F 5-29                   | 5,5               | 4    | 197  | 192  | 176  | 148  | 107  |     |     |     |     |     |     |     |    |    |
| XV-F 5-36                   | 7,5               | 5,5  | 246  | 236  | 216  | 182  | 132  |     |     |     |     |     |     |     |    |    |
| XV-F 10-6                   | 3                 | 2,2  | 60   | 60   | 59   | 58   | 53   | 46  | 37  |     |     |     |     |     |    |    |
| XV-F 10-9                   | 4                 | 3    | 90   | 89   | 88   | 87   | 80   | 70  | 57  |     |     |     |     |     |    |    |
| XV-F 10-10                  | 5,5               | 4    | 101  | 100  | 99   | 98   | 91   | 79  | 64  |     |     |     |     |     |    |    |
| XV-F 10-12                  | 5,5               | 4    | 121  | 120  | 119  | 117  | 108  | 95  | 77  |     |     |     |     |     |    |    |
| XV-F 10-16                  | 7,5               | 5,5  | 162  | 160  | 158  | 156  | 145  | 128 | 104 |     |     |     |     |     |    |    |
| XV-F 10-22                  | 10                | 7,5  | 225  | 223  | 221  | 218  | 202  | 178 | 145 |     |     |     |     |     |    |    |
| XV-F 15-5                   | 5,5               | 4    | 68   | 68   | 67   | 67   | 66   | 64  | 62  | 58  | 55  | 51  | 46  | 40  |    |    |
| XV-F 15-7                   | 7,5               | 5,5  | 97   | 97   | 96   | 95   | 93   | 90  | 87  | 82  | 78  | 72  | 66  | 59  |    |    |
| XV-F 15-9                   | 10                | 7,5  | 125  | 124  | 123  | 122  | 120  | 118 | 113 | 108 | 102 | 95  | 86  | 76  |    |    |
| XV-F 15-14                  | 15                | 11   | 194  | 193  | 192  | 190  | 187  | 183 | 178 | 170 | 160 | 149 | 135 | 120 |    |    |
| XV-F 15-17                  | 20                | 15   | 237  | 236  | 235  | 233  | 229  | 225 | 217 | 208 | 190 | 182 | 165 | 147 |    |    |

# XV-F

| TIPO BOMBA<br>PUMP TYPE | Potencia Bomba<br>Pump Power |  | CAUDAL TOTAL 4 BOMBAS / 4 PUMPS TOTAL FLOW |     |     |     |     |      |     |     |     |     |      |     |  |  |  |  |  |  |  |  |  |
|-------------------------|------------------------------|--|--|-----|-----|-----|-----|------|-----|-----|-----|-----|------|-----|--|--|--|--|--|--|--|--|--|
|                         |                              |  | 0  | 32  | 64  | 112 | 160 | 200  | 288 | 360 | 432 | 528 | 600  | 720 |  |  |  |  |  |  |  |  |  |
|                         | HP KW                        |  | CAUDAL TOTAL 3 BOMBAS / 3 PUMPS TOTAL FLOW |     |     |     |     |      |     |     |     |     |      |     |  |  |  |  |  |  |  |  |  |
|                         |                              |  | 0  | 24  | 48  | 84  | 120 | 150  | 216 | 270 | 324 | 396 | 450  | 540 |  |  |  |  |  |  |  |  |  |
|                         | HP KW                        |  | CAUDAL TOTAL 2 BOMBAS / 2 PUMPS TOTAL FLOW |     |     |     |     |      |     |     |     |     |      |     |  |  |  |  |  |  |  |  |  |
|                         |                              |  | 0  | 15  | 32  | 56  | 80  | 100  | 144 | 180 | 216 | 264 | 300  | 360 |  |  |  |  |  |  |  |  |  |
| HP KW                   |                              | CAUDAL TOTAL 1 BOMBA / 1 PUMP TOTAL FLOW |  |     |     |     |     |      |     |     |     |     |      |     |  |  |  |  |  |  |  |  |  |
|                         |                              | 0  | 8  | 16  | 28  | 40  | 50  | 72   | 90  | 108 | 132 | 150 | 180  |     |  |  |  |  |  |  |  |  |  |
|                         |                              | ALTURA m.c.a / HEIGHT w.c.m              |  |     |     |     |     |      |     |     |     |     |      |     |  |  |  |  |  |  |  |  |  |
| XV-F 20-5               | 7,5                          | 5,5                                      | 70   | 69  | 63  | 37  |     |      |     |     |     |     |      |     |  |  |  |  |  |  |  |  |  |
| XV-F 20-7               | 10                           | 7,5                                      | 102  | 97  | 90  | 54  |     |      |     |     |     |     |      |     |  |  |  |  |  |  |  |  |  |
| XV-F 20-10              | 15                           | 11                                       | 145  | 142 | 130 | 80  |     |      |     |     |     |     |      |     |  |  |  |  |  |  |  |  |  |
| XV-F 20-14              | 20                           | 15                                       | 204  | 200 | 185 | 113 |     |      |     |     |     |     |      |     |  |  |  |  |  |  |  |  |  |
| XV-F 20-17              | 25                           | 18,5                                     | 250  | 245 | 226 | 140 |     |      |     |     |     |     |      |     |  |  |  |  |  |  |  |  |  |
| XV-F 32-3               | 7,5                          | 5,5                                      | 58   | 57  | 55  | 42  | 29  |      |     |     |     |     |      |     |  |  |  |  |  |  |  |  |  |
| XV-F 32-4               | 10                           | 7,5                                      | 76   | 76  | 73  | 58  | 39  |      |     |     |     |     |      |     |  |  |  |  |  |  |  |  |  |
| XV-F 32-6               | 15                           | 11                                       | 116  | 115 | 110 | 90  | 61  |      |     |     |     |     |      |     |  |  |  |  |  |  |  |  |  |
| XV-F 32-8               | 20                           | 15                                       | 154  | 155 | 148 | 120 | 82  |      |     |     |     |     |      |     |  |  |  |  |  |  |  |  |  |
| XV-F 32-10              | 25                           | 18,5                                     | 194  | 196 | 187 | 152 | 106 |      |     |     |     |     |      |     |  |  |  |  |  |  |  |  |  |
| XV-F 32-12              | 30                           | 22                                       | 232  | 235 | 226 | 185 | 127 |      |     |     |     |     |      |     |  |  |  |  |  |  |  |  |  |
| XV-F 32-14              | 40                           | 30                                       | 273  | 277 | 272 | 217 | 153 |      |     |     |     |     |      |     |  |  |  |  |  |  |  |  |  |
| XV-F 45-2               | 10                           | 7,5                                      | 50   | 49  | 48  | 46  | 42  | 34   |     |     |     |     |      |     |  |  |  |  |  |  |  |  |  |
| XV-F 45-3               | 15                           | 11                                       | 75   | 74  | 73  | 71  | 65  | 53   |     |     |     |     |      |     |  |  |  |  |  |  |  |  |  |
| XV-F 45-4               | 20                           | 15                                       | 100  | 99  | 98  | 96  | 86  | 71   |     |     |     |     |      |     |  |  |  |  |  |  |  |  |  |
| XV-F 45-5               | 25                           | 18,5                                     | 125  | 124 | 123 | 121 | 108 | 90   |     |     |     |     |      |     |  |  |  |  |  |  |  |  |  |
| XV-F 45-6               | 30                           | 22                                       | 151  | 150 | 149 | 147 | 131 | 110  |     |     |     |     |      |     |  |  |  |  |  |  |  |  |  |
| XV-F 45-9-2             | 40                           | 30                                       | 218  | 217 | 215 | 213 | 190 | 158  |     |     |     |     |      |     |  |  |  |  |  |  |  |  |  |
| XV-F 45-10              | 50                           | 37                                       | 252  | 250 | 248 | 245 | 222 | 185  |     |     |     |     |      |     |  |  |  |  |  |  |  |  |  |
| XV-F 45-13-2            | 60                           | 45                                       | 320  | 319 | 318 | 317 | 286 | 237  |     |     |     |     |      |     |  |  |  |  |  |  |  |  |  |
| XV-F 64-2               | 15                           | 11                                       | 62   |     | 60  | 58  | 54  | 51   | 40  |     |     |     |      |     |  |  |  |  |  |  |  |  |  |
| XV-F 64-3-1             | 20                           | 15                                       | 78   |     | 76  | 75  | 71  | 65   | 54  |     |     |     |      |     |  |  |  |  |  |  |  |  |  |
| XV-F 64-4-2             | 25                           | 18,5                                     | 98   |     | 97  | 96  | 92  | 81   | 68  |     |     |     |      |     |  |  |  |  |  |  |  |  |  |
| XV-F 64-4               | 30                           | 22                                       | 118  |     | 115 | 111 | 106 | 100  | 84  |     |     |     |      |     |  |  |  |  |  |  |  |  |  |
| XV-F 64-6-2             | 40                           | 30                                       | 156  |     | 154 | 152 | 145 | 135  | 114 |     |     |     |      |     |  |  |  |  |  |  |  |  |  |
| XV-F 64-7-1             | 50                           | 37                                       | 195  |     | 193 | 189 | 180 | 170  | 143 |     |     |     |      |     |  |  |  |  |  |  |  |  |  |
| XV-F 64-8-1             | 60                           | 45                                       | 223  |     | 222 | 221 | 211 | 198  | 167 |     |     |     |      |     |  |  |  |  |  |  |  |  |  |
| XV-F 90-2-2             | 15                           | 11                                       | 48   |     |     | 45  | 44  | 43   | 37  | 28  | 16  |     |      |     |  |  |  |  |  |  |  |  |  |
| XV-F 90-2               | 20                           | 15                                       | 68   |     |     | 61  | 58  | 55   | 48  | 42  | 32  |     |      |     |  |  |  |  |  |  |  |  |  |
| XV-F 90-3-2             | 25                           | 18,5                                     | 80   |     |     | 77  | 74  | 72   | 61  | 50  | 34  |     |      |     |  |  |  |  |  |  |  |  |  |
| XV-F 90-3               | 30                           | 22                                       | 102  |     |     | 92  | 88  | 84   | 74  | 64  | 50  |     |      |     |  |  |  |  |  |  |  |  |  |
| XV-F 90-4               | 40                           | 30                                       | 136  |     |     | 126 | 119 | 114  | 99  | 88  | 70  |     |      |     |  |  |  |  |  |  |  |  |  |
| XV-F 90-5               | 50                           | 37                                       | 170  |     |     | 156 | 149 | 144  | 127 | 110 | 88  |     |      |     |  |  |  |  |  |  |  |  |  |
| XV-F 90-6               | 60                           | 45                                       | 204  |     |     | 189 | 181 | 175  | 154 | 135 | 108 |     |      |     |  |  |  |  |  |  |  |  |  |
| XV-F 120-1              | 15                           | 11                                       | 29   |     |     |     | 27  | 26   | 24  | 23  | 20  | 16  |      |     |  |  |  |  |  |  |  |  |  |
| XV-F 120-2-1            | 25                           | 18,5                                     | 51   |     |     |     | 48  | 47   | 43  | 41  | 36  | 29  |      |     |  |  |  |  |  |  |  |  |  |
| XV-F 120-2              | 30                           | 22                                       | 59   |     |     |     | 56  | 55   | 51  | 49  | 44  | 37  |      |     |  |  |  |  |  |  |  |  |  |
| XV-F 120-3              | 40                           | 30                                       | 88   |     |     |     | 84  | 83   | 77  | 74  | 67  | 57  |      |     |  |  |  |  |  |  |  |  |  |
| XV-F 120-4-1            | 50                           | 37                                       | 110  |     |     |     | 105 | 103  | 96  | 92  | 83  | 70  |      |     |  |  |  |  |  |  |  |  |  |
| XV-F 120-5-1            | 60                           | 45                                       | 140  |     |     |     | 136 | 133  | 124 | 119 | 107 | 92  |      |     |  |  |  |  |  |  |  |  |  |
| XV-F 120-6-1            | 75                           | 55                                       | 170  |     |     |     | 163 | 160  | 150 | 143 | 130 | 112 |      |     |  |  |  |  |  |  |  |  |  |
| XV-F 120-7              | 100                          | 75                                       | 210  |     |     |     | 200 | 196  | 184 | 176 | 160 | 138 |      |     |  |  |  |  |  |  |  |  |  |
| XV-F 150-1-1            | 15                           | 11                                       | 22   |     |     |     |     | 19,5 | 18  | 17  | 16  | 14  | 11   | 6   |  |  |  |  |  |  |  |  |  |
| XV-F 150-1              | 20                           | 15                                       | 32   |     |     |     |     | 29,5 | 27  | 26  | 24  | 21  | 18   | 14  |  |  |  |  |  |  |  |  |  |
| XV-F 150-2-1            | 30                           | 22                                       | 54   |     |     |     |     | 50   | 47  | 46  | 43  | 37  | 32,5 | 25  |  |  |  |  |  |  |  |  |  |
| XV-F 150-3-2            | 40                           | 30                                       | 77   |     |     |     |     | 71   | 66  | 64  | 60  | 52  | 46   | 36  |  |  |  |  |  |  |  |  |  |
| XV-F 150-3-2            | 50                           | 37                                       | 97   |     |     |     |     | 90   | 84  | 81  | 77  | 66  | 60   | 50  |  |  |  |  |  |  |  |  |  |
| XV-F 150-4-1            | 60                           | 45                                       | 120  |     |     |     |     | 113  | 105 | 101 | 96  | 83  | 76   | 63  |  |  |  |  |  |  |  |  |  |
| XV-F 150-5-2            | 75                           | 55                                       | 140  |     |     |     |     | 132  | 124 | 120 | 115 | 101 | 92   | 75  |  |  |  |  |  |  |  |  |  |
| XV-F 150-6              | 100                          | 75                                       | 192  |     |     |     |     | 184  | 172 | 167 | 154 | 132 | 120  | 104 |  |  |  |  |  |  |  |  |  |

# CONTRA INCENDIOS



## APLICACIONES:

Los equipos de bombeo automáticos descritos en el presente catalogo, son conjuntos diseñados para ofrecer la mejor solución para el suministro de agua a presión en una instalación de protección de incendios, por lo cual son apropiados para muy diversas instalaciones como pueden ser: edificios públicos y privados, grandes superficies comerciales, almacenes, naves industriales ,etc... Nuestra línea de equipos aquí reflejados han sido estudiados para garantizar un funcionamiento fiable y duradero incluso en las condiciones mas extremas, condiciones que en este tipo de aplicaciones son bastante comunes.

SACI PUMPS como punto de partida en el diseño de estos equipos ha tenido en cuenta una serie de premisas básicas:

- Cumplimiento estricto de la normativa vigente **UNE 23500:2018, EN 12845** y las reglas técnicas editadas por **CEPREVEN**.
- Ofrecer una amplia gama de equipos, ya sea en tipo de ejecución, varias bombas principales eléctricas o diesel, normativas UNE, EN ó CEPREVEN y como no, en prestaciones de los mismos: hasta 288 m<sup>3</sup>/h de caudal nominal y hasta 120 m.c.a. de altura manométrica.
- Diseño compacto, robusto y totalmente preparado, cableado para su puesta en marcha definitiva en destino garantizando de esta forma una **FÁCIL INSTALACIÓN** y un **MÍNIMO MANTENIMIENTO PREVENTIVO**.

## EJECUCIONES:

Podemos encontrar diferentes gamas de equipos contraincendios bien diferenciadas:

- 1) Equipos bajo normas **UNE 23500:2018** que dividimos en 4 líneas en función de tipo y nº de bombas principales que incorporan:
  - **U.E.** Equipos que incorporan 1 bomba principal eléctrica y 1 bomba jockey. (Bombeo Simple)
  - **U.E.E.** Equipos que incorporan 2 bombas principales eléctricas y 1 bomba jockey.
  - **U.D.** Equipos que incorporan 1 bomba principal Diesel y 1 bomba jockey. (Bombeo Simple)
  - **U.E.D.** Equipos que incorporan 1 bomba principal eléctrica, 1 bomba principal diesel y 1 bomba jockey.
- 2) Equipos bajo regla técnica **CEPREVEN RT2-ABA** que dividimos en 4 líneas en función de tipo y nº de bombas principales que incorporan:
  - **C.E.** Equipos que incorporan 1 bomba principal eléctrica y 1 bomba jockey.
  - **C.E.E.** Equipos que incorporan 2 bombas principales eléctricas y 1 bomba jockey.
  - **C.D.** Equipos que incorporan 1 bomba principal Diesel y 1 bomba jockey.
  - **C.E.D.** Equipos que incorporan 1 bomba principal eléctrica, 1 bomba principal diesel y 1 bomba jockey.
- 3) Equipos bajo normas **EN 12845** (norma de ámbito europeo) que dividimos en 4 líneas en función de tipo y nº de bombas principales que incorporan:
  - **N.E.** Equipos que incorporan 1 bomba principal eléctrica y 1 bomba jockey.
  - **N.E.E.** Equipos que incorporan 2 bombas principales eléctricas y 1 bomba jockey.
  - **N.D.** Equipos que incorporan 1 bomba principal Diesel y 1 bomba jockey.
  - **N.E.D.** Equipos que incorporan 1 bomba principal eléctrica, 1 bomba principal diesel y 1 bomba jockey.

PARA OTRAS ESPECIFICACIONES CONSULTAR NUESTRO CATÁLOGO TÉCNICO DE EQUIPOS



# FIRE FIGHTING UNITS



## APPLICATIONS:

The automatic pumping units described herein are designed to offer the best solution for pressurised water supply in a fire fighting installation, and are therefore suitable for highly diverse installations such as:  
Public and private buildings, large commercial areas, Stores, Warehouses, etc.

Our line of units we reflect here has been studied to guarantee reliable, lasting working even in the most extreme conditions, conditions where these kinds of applications are quite common.

In commencing the design of these units, BOMBAS SACI has borne in mind a series of basic premises:

- Strict compliance with current **UNE 23500:2018** regulations and all the technical rules published by **CEPREVEN** normally demanded by insurance companies.
- Offer a wide range of units either in execution, several electric or diesel main pumps, UNE or CEPREVEN standards, or in output: up to 288 m<sup>3</sup>/h nominal flow and up to 120 m.c.a manometric height.
- Compact design, robust and totally prepared, wired for final commissioning at destination, thus guaranteeing an **EASY INSTALLATION** and **MINIMAL PREVENTIVE MAINTENANCE**.

## EXECUTIONS:

This catalogue presents 3 different ranges of fire fighting equipment.

- 1) Units under **UNE 23500:2018** standards, which we divide into 4 working lines depending on type and number of main pumps they include:
  - **U.E.** Units incorporating 1 main electric pump and 1 jockey pump. (Simple)
  - **U.E.E.** Units incorporating 2 main electric pumps and 1 jockey pump.
  - **U.D.** Units incorporating 1 main diesel pump and 1 jockey pump. (Simple)
  - **U.E.D.** Units incorporating 1 main electric pump, 1 main diesel pump and 1 jockey pump.
- 2) Units under **CEPREVEN RT2-ABA 96** standards, which we divide into 4 working lines depending on type and number of main pumps they include:
  - **C.E.** Units incorporating 1 main electric pump and 1 jockey pump.
  - **C.E.E.** Units incorporating 2 main electric pumps and 1 jockey pump.
  - **C.D.** Units incorporating 1 main diesel pump and 1 jockey pump.
  - **C.E.D.** Units incorporating 1 main electric pump, 1 main diesel pump and 1 jockey pump.
- 3) Units under **EN 12845** standards, which we divide into 4 working lines depending on type and number of main pumps they include:
  - **N.E.** Units incorporating 1 main electric pump and 1 jockey pump.
  - **N.E.E.** Units incorporating 2 main electric pumps and 1 jockey pump.
  - **N.D.** Units incorporating 1 main diesel pump and 1 jockey pump.
  - **N.E.D.** Units incorporating 1 main electric pump, 1 main diesel pump and 1 jockey pump.

# UNE 23500:2018 (simple)

equipamiento sencillo / *simple sets*

| TIPO EQUIPO<br>SET TYPE | POTENCIA HP    |        | CAUDAL m <sup>3</sup> /h / Flow m <sup>3</sup> /h |    |    |    |    |
|-------------------------|----------------|--------|---|----|----|----|----|
|                         | PRAL.<br>ELEC. | JOCKEY | 12  | 18 | 24 | 30 | 36 |
|                         |                |        | ALTURA m.c.a. / Height w.c.m.                     |    |    |    |    |
| 404                     | 3              | 1,1    | 33  |    |    |    |    |
| 405                     | 4              | 1,3    | 43  |    |    |    |    |
| 406                     | 4              | 1,5    | 51  |    |    |    |    |
| 407                     | 5,5            | 3      | 60  |    |    |    |    |
| 15 - 7 <sup>(1)</sup>   | 7,5            | 4      | 87  |    |    |    |    |
| 15 - 9 <sup>(1)</sup>   | 10             | 5,5    | 113   |    |    |    |    |
| 420 B                   | 7,5            | 1,7    |   | 46 | 43 |    |    |
| 420 A                   | 10             | 1,7    |   | 58 | 56 | 53 |    |
| 425 B                   | 15             | 3      |   |    | 70 | 67 |    |
| 425 A <sup>(1)</sup>    | 20             | 4      |   |    | 87 | 84 |    |
| 520 C                   | 12,5           | 1,7    |   |    |    |    | 43 |
| 520 B                   | 15             | 1,7    |   |    |    |    | 49 |
| 520 A                   | 20             | 2      |   |    |    |    | 56 |
| 525 C                   | 20             | 3      |   |    |    |    | 69 |
| 525 B                   | 25             | 3      |   |    |    |    | 76 |
| 525 A <sup>(1)</sup>    | 30             | 4      |   |    |    |    | 88 |

<sup>(1)</sup> En equipos diesel, la presión máxima serán 80 mca / In diesel sets, the maximum pressure will be 80 wcm

\* LOS GRUPOS CONTRA INCENDIOS SIMPLES SOLAMENTE SON VÁLIDOS PARA EQUIPAMIENTOS SENCILLOS (BIE). PUEDE SUMINISTRARSE EL GRUPO CON 1 BOMBA PRINCIPAL ELÉCTRICA (U.E), 1 DIESEL (U.D), 2 ELÉCTRICAS (U.E.E) Y 1 ELÉCTRICA + 1 DIESEL (U.E.D). EN TODOS LOS CASOS SE INCLUYE LA BOMBA JOCKEY.

\* THE SIMPLE FIRE FIGHTING UNITS ARE VALID ONLY FOR SIMPLE EQUIPMENTS (BIE). CAN BE SUPPLIED WITH 1 MAIN ELECTRICAL PUMP (U.E), 1 MAIN DIESEL PUMP (U.D), 2 MAIN ELECTRICAL PUMPS (U.E.E) AND 1 MAIN ELECTRICAL PUMP + 1 MAIN DIESEL PUMP (U.E.D). THE JOCKEY PUMP ALWAYS IS INCLUDED.

# UNE 23500:2018 / EN-12845 / CEPREVEN

equipamiento superior / *superior sets*

| TIPO EQUIPO<br>SET TYPE | POTENCIA HP   |        | CAUDAL NOMINAL m³/h / Nominal Flow m³/h       |    |    |    |    |    |    |    |    |    |    |     |    |
|-------------------------|---------------|--------|---|----|----|----|----|----|----|----|----|----|----|-----|----|
|                         | PRAL.<br>ELEC | JOCKEY | 12  | 18 | 24 | 30 | 36 | 42 | 48 | 60 | 72 | 84 | 96 | 108 |    |
|                         |               |        | ALTURA NOMINAL m.c.a. / Nominal Height w.c.m. |    |    |    |    |    |    |    |    |    |    |     |    |
| 316 S 17 / 7.5          | 7,5           | 2      | 42  | 41 | 38 |    |    |    |    |    |    |    |    |     |    |
| 320 S 20 / 10           | 10            | 2      | 50  | 48 | 45 | 42 |    |    |    |    |    |    |    |     |    |
| 320 S 22 / 15           | 15            | 3      | 63  | 62 | 59 | 57 | 53 |    |    |    |    |    |    |     |    |
| 425 S 24 / 25           | 25            | 3      |   |    | 76 | 75 |    |    |    |    |    |    |    |     |    |
| 425 S 25 / 30           | 30            | 3      |   |    | 82 | 81 |    |    |    |    |    |    |    |     |    |
| 420 S 22 / 20           | 20            | 3      |   |    |    |    | 59 | 57 | 55 |    |    |    |    |     |    |
| 425 S 23 / 25           | 25            | 3      |   |    |    |    | 66 | 64 | 61 |    |    |    |    |     |    |
| 425 S 25 / 30           | 30            | 3      |   |    |    |    | 80 | 78 | 76 |    |    |    |    |     |    |
| 425 S 26 / 30           | 30            | 4      |   |    |    | 90 | 89 | 87 | 84 |    |    |    |    |     |    |
| 525 S 22 / 30           | 30            | 3      |   |    |    |    |    |    |    | 60 | 55 |    |    |     |    |
| 525 S 23 / 30           | 30            | 3      |   |    |    |    |    |    |    | 67 | 62 |    |    |     |    |
| 525 S 24 / 40           | 40            | 3      |   |    |    |    |    |    |    | 74 | 70 |    |    |     |    |
| 525 S 25 / 40           | 40            | 3      |   |    |    |    |    |    |    | 82 | 78 |    |    |     |    |
| 525 S 26 / 50           | 50            | 4      |   |    |    |    |    | 94 | 93 | 90 | 88 |    |    |     |    |
| 652 S 20 / 30           | 30            | 3      |   |    |    |    |    |    |    |    |    | 53 | 51 | 49  |    |
| 652 S 21 / 40           | 40            | 3      |   |    |    |    |    |    |    |    |    | 59 | 57 | 55  |    |
| 652 S 22 / 40           | 40            | 3      |   |    |    |    |    |    |    |    |    | 66 | 64 | 62  |    |
| 625 S 24 / 50           | 50            | 3      |   |    |    |    |    |    |    |    |    | 71 | 70 | 66  |    |
| 625 S 25 / 50           | 50            | 3      |   |    |    |    |    |    |    |    |    | 80 | 78 | 73  |    |
| 625 S 26 / 60           | 60            | 4      |   |    |    |    |    |    |    |    |    | 92 | 91 | 89  | 87 |

\* PARA CAUDALES SUPERIORES CONSULTE CON NUESTRO DEPARTAMENTO COMERCIAL.

PUEDA SUMINISTRARSE EL GRUPO CON 1 BOMBA PRINCIPAL ELÉCTRICA, 1 PRINCIPAL DIESEL, 2 PRINCIPALES ELÉCTRICAS Y 1 PRINCIPAL ELÉCTRICA + 1 PRINCIPAL DIESEL. EN TODOS LOS CASOS SE INCLUYE LA BOMBA JOCKEY.

\* FOR MORE FLOW REQUIREMENT PLEASE CONTACT WITH OUR COMMERCIAL DEPARTMENT.

CAN BE SUPPLIED WITH 1 MAIN ELECTRICAL PUMP, 1 MAIN DIESEL PUMP, 2 MAIN ELECTRICAL PUMPS AND 1 MAIN ELECTRICAL PUMP + 1 MAIN DIESEL PUMP. THE JOCKEY PUMP ALWAYS IS INCLUDED.



# CIRCULADORAS

| ROTOR HÚMEDO |               | ROTOR SECO |                         |
|--------------|---------------|------------|-------------------------|
| 166          | EVOSTA-2      | 184        | ALM-ALP                 |
| 167          | EVOSTA-3      | 185        | KLM - KLP - DKLM - DKLP |
| 169          | EVOPLUS SMALL | 187        | CM                      |
| 172          | EVOPLUS       | 190        | CP                      |
| 179          | VS            |            |                         |

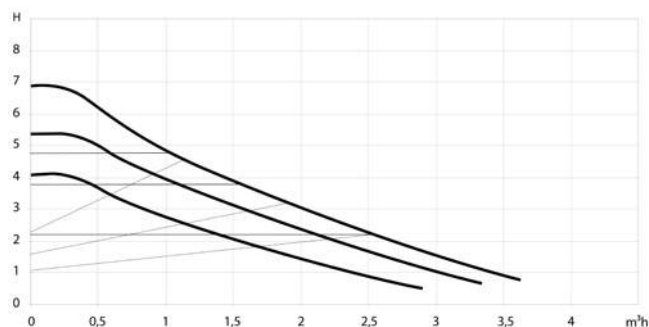
# ROTOR HÚMEDO *WET ROTOR*

| MODELO                         |                                  | P1<br>MAX.<br>W | Q         |           |           |           |
|--------------------------------|----------------------------------|-----------------|-----------|-----------|-----------|-----------|
|                                | MONOFASICA<br>GEMELA             |                 | 0<br>m³/h | 0,6<br>10 | 1,2<br>20 | 1,8<br>30 |
| EVOSTA-2 40-70/130             | -                                | 35              | 6,9       | 5,9       | 4,5       | 3,2       |
| EVOSTA-2 40-70/180             | -                                | 35              |           |           |           |           |
| EVOSTA-3 40/130 M              | -                                | 20              | 4         | 3,7       | 2,6       | 1,6       |
| EVOSTA-3 40/180 M              | -                                | 20              |           |           |           |           |
| EVOSTA-3 60/130 M              | -                                | 35              |           |           |           |           |
| EVOSTA-3 60/180 M              | -                                | 35              | 6         | 5,8       | 4,7       | 3,4       |
| EVOSTA-3 60/180 XM             | -                                | 35              |           |           |           |           |
| EVOSTA-3 80/130 M              | -                                | 55              |           |           |           |           |
| EVOSTA-3 80/180 M              | -                                | 55              | 8         | 8         | 6,6       | 5         |
| EVOSTA-3 80/180 XM             | -                                | 55              |           |           |           |           |
| EVOPLUS 60/180 XM (SMALL)      | -                                | 100             | 6,1       |           | 6,1       | 6,1       |
| EVOPLUS 80/180 XM (SMALL)      | -                                | 135             | 8,1       |           | 8,1       | 8,1       |
| EVOPLUS 110/180 XM (SMALL)     | -                                | 170             | 11,3      |           | 11,3      | 11,3      |
| EVOPLUS B 40/220.32 M (SMALL)  | EVOPLUS D 40/220.32 M (D SMALL)  | 75              | 4,1       |           |           |           |
| EVOPLUS B 60/220.32 M (SMALL)  | EVOPLUS D 60/220.32 M (D SMALL)  | 105             | 6         |           |           |           |
| EVOPLUS B 80/220.32 M (SMALL)  | EVOPLUS D 80/220.32 M (D SMALL)  | 140             | 8         |           |           |           |
| EVOPLUS B 110/220.32 M (SMALL) | EVOPLUS D 110/220.32 M (D SMALL) | 190             | 11        |           |           |           |
| EVOPLUS B 120/220.32 M (SMALL) | EVOPLUS D 120/220.32 M (D SMALL) | 340             | 12        |           |           |           |
| EVOPLUS B 60/250.40 M (SMALL)  | EVOPLUS D 60/250.40 M (D SMALL)  | 105             | 6         |           |           |           |
| EVOPLUS B 80/250.40 M (SMALL)  | EVOPLUS D 80/250.40 M (D SMALL)  | 140             | 8         |           |           |           |
| EVOPLUS B 110/250.40 M (SMALL) | EVOPLUS D 110/250.40 M (D SMALL) | 190             | 11        |           |           |           |
| EVOPLUS B 40/220.40 M          | EVOPLUS D 40/220.40 M            | 90              | 4         |           |           |           |
| EVOPLUS B 60/220.40 M          | EVOPLUS D 60/220.40 M            | 175             | 6         |           |           |           |
| EVOPLUS B 80/220.40 M          | EVOPLUS D 80/220.40 M            | 260             | 8         |           |           |           |
| EVOPLUS B 100/220.40 M         | EVOPLUS D 100/220.40 M           | 350             | 10        |           |           |           |
| EVOPLUS B 120/250.40 M         | EVOPLUS D 120/250.40 M           | 465             | 12        |           |           |           |
| EVOPLUS B 150/250.40 M         | EVOPLUS D 150/250.40 M           | 610             | 15        |           |           |           |
| EVOPLUS B 180/250.40 M         | EVOPLUS D 180/250.40 M           | 610             | 18        |           |           |           |
| EVOPLUS B 40/240.50 M          | EVOPLUS D 40/240.50 M            | 140             | 4         |           |           |           |
| EVOPLUS B 60/240.50 M          | EVOPLUS D 60/240.50 M            | 260             | 6         |           |           |           |
| EVOPLUS B 80/240.50 M          | EVOPLUS D 80/240.50 M            | 330             | 8         |           |           |           |
| EVOPLUS B 100/280.50 M         | EVOPLUS D 100/280.50 M           | 430             | 10        |           |           |           |
| EVOPLUS B 120/280.50 M         | EVOPLUS D 120/280.50 M           | 530             | 12        |           |           |           |
| EVOPLUS B 150/280.50 M         | EVOPLUS D 150/280.50 M           | 640             | 15        |           |           |           |
| EVOPLUS B 180/280.50 M         | EVOPLUS D 180/280.50 M           | 750             | 18        |           |           |           |
| EVOPLUS B 40/340.65 M          | EVOPLUS D 40/340.65 M            | 190             | 4         |           |           |           |
| EVOPLUS B 60/340.65 M          | EVOPLUS D 60/340.65 M            | 355             | 6         |           |           |           |
| EVOPLUS B 80/340.65 M          | EVOPLUS D 80/340.65 M            | 465             | 8         |           |           |           |
| EVOPLUS B 100/340.65 M         | EVOPLUS D 100/340.65 M           | 590             | 10        |           |           |           |
| EVOPLUS B 120/340.65 M         | EVOPLUS D 120/340.65 M           | 730             | 12        |           |           |           |
| EVOPLUS B 150/340.65 M         | EVOPLUS D 150/340.65 M           | 1210            | 15,2      |           |           |           |
| EVOPLUS B 40/360.80 M          | EVOPLUS D 40/360.80 M            | 330             | 4         |           |           |           |
| EVOPLUS B 60/360.80 M          | EVOPLUS D 60/360.80 M            | 535             | 6         |           |           |           |
| EVOPLUS B 80/360.80 M          | EVOPLUS D 80/360.80 M            | 670             | 8         |           |           |           |
| EVOPLUS B 100/360.80 M         | EVOPLUS D 100/360.80 M           | 1005            | 10        |           |           |           |
| EVOPLUS B 120/360.80 M         | EVOPLUS D 120/360.80 M           | 1235            | 12        |           |           |           |
| EVOPLUS B 40/450.100 M         | EVOPLUS D 40/450.100 M           | 530             | 4         |           |           |           |
| EVOPLUS B 60/450.100 M         | EVOPLUS D 60/450.100 M           | 760             | 6         |           |           |           |
| EVOPLUS B 80/450.100 M         | EVOPLUS D 80/450.100 M           | 1080            | 8         |           |           |           |
| EVOPLUS B 100/450.100 M        | EVOPLUS D 100/450.100 M          | 1380            | 10        |           |           |           |
| EVOPLUS B 120/450.100 M        | EVOPLUS D 120/450.100 M          | 1560            | 12,2      |           |           |           |

tablas de selección rápida / numerical selection table

| 2,4<br>40 | 3<br>50 | 4,2<br>70 | 5,4<br>90 | 7,2<br>120 | 9,6<br>160 | 12<br>200 | 14,4<br>240 | 18<br>300 | 21<br>350 | 24<br>400 | 27<br>450 | 30<br>500 | 33<br>550 | 36<br>600 | 42<br>700 | 54<br>900 | 60<br>1000 | 72<br>1200 |
|-----------|---------|-----------|-----------|------------|------------|-----------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|------------|
| 2,4       | 1,7     |           |           |            |            |           |             |           |           |           |           |           |           |           |           |           |            |            |
| 1,1       |         |           |           |            |            |           |             |           |           |           |           |           |           |           |           |           |            |            |
| 2,6       | 1,8     |           |           |            |            |           |             |           |           |           |           |           |           |           |           |           |            |            |
| 4,1       | 3       | 1,2       |           |            |            |           |             |           |           |           |           |           |           |           |           |           |            |            |
| 6,1       | 5,7     | 4         | 3         | 1,8        |            |           |             |           |           |           |           |           |           |           |           |           |            |            |
| 8,1       | 7,5     | 6,1       | 4,5       | 3,2        | 0,8        |           |             |           |           |           |           |           |           |           |           |           |            |            |
| 11,3      | 9       | 7,5       | 6,1       | 4,3        | 2          |           |             |           |           |           |           |           |           |           |           |           |            |            |
| 4,1       | 4,1     | 3,3       | 2,6       | 1,3        |            |           |             |           |           |           |           |           |           |           |           |           |            |            |
| 6         | 5,5     | 4,7       | 3         | 2,5        | 0,6        |           |             |           |           |           |           |           |           |           |           |           |            |            |
| 8         | 7,4     | 6         | 5         | 3,3        | 1,2        |           |             |           |           |           |           |           |           |           |           |           |            |            |
| 11        | 9,5     | 8         | 6,5       | 5,2        | 2,7        | 0,5       |             |           |           |           |           |           |           |           |           |           |            |            |
| 12        | 12      | 11,7      | 10,7      | 9,5        | 8          | 6,4       | 4,5         | 2,2       |           |           |           |           |           |           |           |           |            |            |
| 6         | 5,5     | 4,7       | 3         | 2,5        | 0,6        |           |             |           |           |           |           |           |           |           |           |           |            |            |
| 8         | 7,4     | 6         | 5         | 3,3        | 1,2        |           |             |           |           |           |           |           |           |           |           |           |            |            |
| 11        | 9,5     | 8         | 6,5       | 5,2        | 2,7        | 0,5       |             |           |           |           |           |           |           |           |           |           |            |            |
|           | 4       | 3,5       | 3,2       | 2,5        | 1,7        | 0,8       |             |           |           |           |           |           |           |           |           |           |            |            |
|           | 6       | 6         | 5,9       | 5,4        | 4,1        | 3         | 1,8         |           |           |           |           |           |           |           |           |           |            |            |
|           | 8       | 8         | 8         | 7,6        | 6,2        | 5         | 3,8         | 2         |           |           |           |           |           |           |           |           |            |            |
|           | 10      | 10        | 10        | 9,7        | 8,3        | 6,4       | 5,5         | 3,5       |           |           |           |           |           |           |           |           |            |            |
|           | 12      | 12        | 12        | 11,5       | 10         | 8,8       | 7,3         | 5,3       | 3,6       | 2         |           |           |           |           |           |           |            |            |
|           | 15      | 15        | 15        | 14,7       | 12,8       | 11,4      | 9,7         | 7,8       | 6         | 4         |           |           |           |           |           |           |            |            |
|           | 18      | 17,7      | 16,8      | 14,9       | 13         | 11,5      | 10          | 7,9       | 6,1       | 4,3       |           |           |           |           |           |           |            |            |
|           |         |           | 4         | 3,6        | 3,1        | 2,6       | 2,1         | 1,5       | 0,9       |           |           |           |           |           |           |           |            |            |
|           |         |           | 6         | 6          | 5,4        | 4,8       | 4,1         | 3,2       | 2,5       | 1,7       |           |           |           |           |           |           |            |            |
|           |         |           | 8         | 7,4        | 6,7        | 6         | 5,3         | 4,3       | 3,6       | 2,7       | 1,8       |           |           |           |           |           |            |            |
|           |         |           | 10        | 9,5        | 8,5        | 7,6       | 6,8         | 5,5       | 5,3       | 3,7       | 2,8       | 2,2       |           |           |           |           |            |            |
|           |         |           | 11,8      | 11         | 10         | 9         | 8           | 7         | 6         | 5         | 4         | 3         | 2         |           |           |           |            |            |
|           |         |           | 13,5      | 12,5       | 11,5       | 10,5      | 9,6         | 8,2       | 7,2       | 6         | 5,1       | 4         | 2,8       |           |           |           |            |            |
|           |         |           | 14,8      | 14         | 13         | 12        | 10,9        | 9,7       | 8,8       | 7,5       | 6,5       | 5,2       | 4         | 3,1       |           |           |            |            |
|           |         |           |           | 4          | 3,8        | 3,4       | 3           | 2,5       | 2         | 1,5       | 0,8       |           |           |           |           |           |            |            |
|           |         |           |           | 6          | 6          | 5,9       | 5,4         | 4,7       | 4         | 3,5       | 2,8       | 2,2       | 1,6       |           |           |           |            |            |
|           |         |           |           | 8          | 8          | 7,5       | 6,8         | 6         | 5,5       | 4,8       | 4,1       | 3,5       | 2,8       | 2,2       |           |           |            |            |
|           |         |           |           | 10         | 9,8        | 9         | 8,4         | 7,5       | 6,8       | 6,2       | 5,3       | 4,7       | 4         | 3,2       |           |           |            |            |
|           |         |           |           | 12         | 11,4       | 11        | 10          | 9         | 8         | 7,3       | 6,7       | 6         | 5,3       | 4,6       | 3         |           |            |            |
|           |         |           |           | 15,2       | 15,1       | 15        | 14,8        | 14        | 13,2      | 12        | 11,3      | 10,4      | 9,8       | 8,7       | 7         |           |            |            |
|           |         |           |           |            |            |           |             | 4         | 3,6       | 3,2       | 2,7       | 2,3       | 1,8       | 1,5       |           |           |            |            |
|           |         |           |           |            |            |           |             | 6         | 5,8       | 5,3       | 4,8       | 4,1       | 3,5       | 3         | 2         |           |            |            |
|           |         |           |           |            |            |           |             | 8         | 7,5       | 6,8       | 6         | 5,4       | 4,9       | 4,3       | 3,1       |           |            |            |
|           |         |           |           |            |            |           |             | 10        | 10        | 10        | 9,4       | 8,2       | 7,8       | 7         | 5,6       | 2,9       |            |            |
|           |         |           |           |            |            |           |             | 12        | 12        | 12        | 11        | 10        | 9,1       | 8,5       | 6,8       | 4,3       |            |            |
|           |         |           |           |            |            |           |             |           |           |           |           | 4         | 3,6       | 3,2       | 2         |           |            |            |
|           |         |           |           |            |            |           |             |           |           |           |           | 6         | 5,5       | 4,8       | 3,8       | 1,5       |            |            |
|           |         |           |           |            |            |           |             |           |           |           |           | 8         | 7,9       | 7         | 5,9       | 3,2       | 2,1        |            |
|           |         |           |           |            |            |           |             |           |           |           |           | 10        | 9,8       | 9         | 7,8       | 4,7       | 3,5        | 0,8        |
|           |         |           |           |            |            |           |             |           |           |           |           | 12,2      | 11,2      | 10,5      | 8,8       | 5,8       | 4,8        | 1,8        |

# EVOSTA-2



## Aplicaciones:

Bomba de recirculación de agua caliente para instalaciones domésticas de calefacción centralizadas, de tipo cerrado y presurizado, o de vaso abierto; que gracias al **variador de frecuencia incorporado**, proporciona una gran eficiencia en términos de ahorro energético.

## Características constructivas:

Cuerpo motor en fundición de hierro, carcasa motor en aluminio, turbina en tecnopolímero, eje-rotor y camisa protección del rotor en acero inoxidable, anillo en cerámica y anillo cierre en etileno propileno.

## Motor:

Motor síncrono de imanes permanentes, regulado mediante variador de frecuencia.

**Voltaje de alimentación:** Monofásico 230V 50/60Hz

**Campo de prestaciones:** 0,4 - 3,6 m<sup>3</sup>/h con alturas hasta 6,9 metros

**Campo de temperatura del líquido:** de -10°C a +110°C

**Líquido bombeado:** Limpio y libre de sustancias sólidas, no viscoso, químicamente neutro.

**Grado de protección y aislamiento:** IP44 - Clase F

**Racores no incluidos.**



## Applications:

Circulation pump for domestic hot water central heating, sealed and pressurized type, or open tank, thanks to **built-in frequency inverter**, provides a great efficiency in terms of energy saving.

## Constructive characteristics:

Motor housing in cast iron, aluminum motor housing, techno polymer impeller, shaft-rotor and rotor protection sleeve in stainless steel, ceramic ring and ring closure of ethylene and propylene.

## Motor:

Permanent magnet synchronous motor, controlled by frequency inverter.

**Supply Voltage:** Single phase 230V 50/60Hz

**Performance field:** 0 to 3 m<sup>3</sup>/h with heights up to 6.9 meters

**Liquid temperature range:** +2 °C to +95 °C

**Pumped liquid:** clean, free from solid substances, not viscous, chemically neutral.

**Protection and insulation:** IP44 - Class F

**Racords not included.**

| Tipo<br>Type              | Distancia<br>Distance<br>mm. | Rácores<br>Connections | Datos Eléctricos |         |             | Presión Mínima<br>Minimum pressure | Peso<br>Weight<br>Kg. |
|---------------------------|------------------------------|------------------------|------------------|---------|-------------|------------------------------------|-----------------------|
|                           |                              |                        | Voltaje<br>V     | P1<br>W | Int.<br>A   |                                    |                       |
| EVOSTA-2 40-70/130 (1/2") | 130                          | 1/2" F                 | 1 x 230V         | 2 - 35  | 0,04 - 0,32 | 1 bar                              | 1,8                   |
| EVOSTA-2 40-70/130        | 130                          | 1" F                   |                  |         |             |                                    | 2                     |
| EVOSTA-2 40-70/180        | 180                          | 1" F                   |                  |         |             |                                    | 2,2                   |



# EVOSTA-3



## Aplicaciones:

Bomba de recirculación de agua caliente para instalaciones domésticas de calefacción centralizadas, de tipo cerrado y presurizado, o de vaso abierto; que gracias al **variador de frecuencia incorporado**, proporciona una gran eficiencia en términos de ahorro energético.

## Características constructivas:

Cuerpo motor en fundición de hierro, carcasa motor en aluminio, turbina en tecnopolímero, eje-rotor y camisa protección del rotor en acero inoxidable, anillo en cerámica y anillo cierre en etileno propileno.

## Motor:

Motor síncrono de imanes permanentes, regulado mediante variador de frecuencia.

**Voltaje de alimentación:** Monofásico 230V 50/60Hz

**Campo de prestaciones:** 0,4 a 3,3 m<sup>3</sup>/h con alturas hasta 8 metros.

**Campo de temperatura del líquido:** de -10°C a +110°C

**Líquido bombeado:** Limpio y libre de sustancias sólidas, no viscoso, químicamente neutro. Cantidad máxima de 30% de glicol.

**Grado de protección y aislamiento:** IP44 - Clase F

**Racores no incluidos.**



## Applications:

Circulation pump for domestic hot water central heating, sealed and pressurized type, or open tank, thanks to **built-in frequency inverter**, provides a great efficiency in terms of energy saving.

## Constructive characteristics:

Motor housing in cast iron, aluminum motor housing, techno polymer impeller, shaft-rotor and rotor protection sleeve in stainless steel, ceramic ring and ring closure of ethylene and propylene.

## Motor:

Permanent magnet synchronous motor, controlled by frequency inverter.

**Supply Voltage:** Single phase 230V 50/60Hz

**Performance field:** 0.4 to 4.2 m<sup>3</sup>/h with heights up to 8 meters.

**Liquid temperature range:** -10 °C to +110 °C

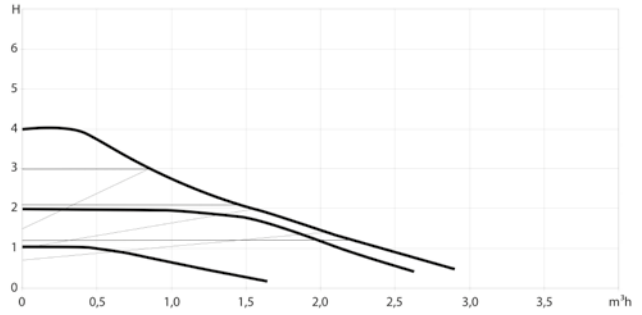
**Pumped liquid:** clean, free from solid substances, not viscous, chemically neutral. Maximum 30% glycol.

**Protection and insulation:** IP44 - Class F

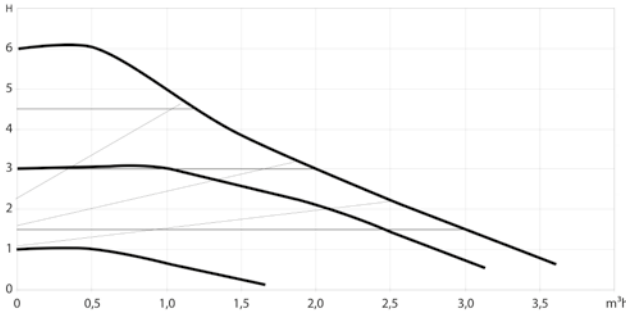
**Records not included.**

# EVOSTA-3

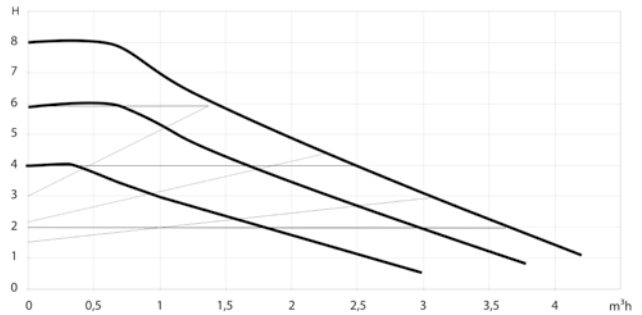
**EVOSTA-3 40**



**EVOSTA-3 60**



**EVOSTA-3 80**



| Tipo<br>Type              | Distancia<br>Distance<br>mm. | Rácores<br>Connections | Datos Eléctricos |         |              | Presión Mínima<br>Minimum pressure | Peso<br>Weight<br>Kg. |
|---------------------------|------------------------------|------------------------|------------------|---------|--------------|------------------------------------|-----------------------|
|                           |                              |                        | Voltaje<br>V     | P1<br>W | Int.<br>A    |                                    |                       |
| <b>EVOSTA-3 40/130 M</b>  | 130                          | 1" F                   | 1 x 230V         | 2 - 20  | 0,034 - 0,18 | 1 bar                              | 2                     |
| <b>EVOSTA-3 40/180 M</b>  | 180                          | 1" F                   |                  |         |              |                                    | 2,2                   |
| <b>EVOSTA-3 60/130 M</b>  | 130                          | 1" F                   | 1 x 230V         | 3 - 35  | 0,042 - 0,33 |                                    | 2                     |
| <b>EVOSTA-3 60/180 M</b>  | 180                          | 1" F                   |                  |         |              |                                    | 2,2                   |
| <b>EVOSTA-3 60/180 XM</b> | 180                          | 1 1/4" F               |                  |         |              |                                    | 2,4                   |
| <b>EVOSTA-3 80/130 M</b>  | 130                          | 1" F                   | 1 x 230V         | 4 - 55  | 0,053 - 0,47 |                                    | 2                     |
| <b>EVOSTA-3 80/180 M</b>  | 180                          | 1" F                   |                  |         |              |                                    | 2,2                   |
| <b>EVOSTA-3 80/180 XM</b> | 180                          | 1 1/4" F               |                  |         |              |                                    | 2,4                   |

# EVOPLUS SMALL

pequeñas instalaciones colectivas  
*small collective facilities*



### Aplicaciones:

Bombas circuladoras electrónicas, que pueden ser utilizadas para calefacción, ventilación y sistemas de aire acondicionado en colegios, comunidades de vecinos, etc... Gracias al **variador de frecuencia incorporado**, reducen considerablemente el ruido en la instalación así como los costes de funcionamiento, proporcionando una gran eficiencia en términos de ahorro energético.

### Características constructivas:

Cuerpo motor en fundición de hierro, carcasa motor en aluminio, turbina en tecnopolímero, eje-rotor y camisa protección del rotor en acero inoxidable, anillo en cerámica y anillo cierre en etileno propileno.

### Motor:

Motor síncrono de imanes permanentes, regulado mediante variador de frecuencia.

**Voltaje de alimentación:** Monofásico 230V 50/60Hz

**Campo de prestaciones:** 0,5 a 18 m<sup>3</sup>/h con alturas hasta 12 metros

**Campo de temperatura del líquido:** de -10°C a +110°C

**Líquido bombeado:** Limpio y libre de sustancias sólidas, no viscoso, químicamente neutro. Cantidad máxima de 30% de glicol.

**Grado de protección y aislamiento:** IP44 – Clase F

**Racores no incluidos.**

**Admite bajo demanda el módulo básico multifunción para control 0-10V.**



### Applications:

Electronic circulation pumps, which can be used for heating, ventilation and air conditioning systems in schools, condominiums, etc. Thanks to the **built-in frequency inverter**, reduces significantly the noise in the installation and reduces the operation costs, providing a great efficiency in terms of energy saving.

### Constructive characteristics:

Motor housing in cast iron, aluminum motor housing, techno polymer impeller, shaft-rotor and rotor protection sleeve in stainless steel, ceramic ring and ring closure of ethylene and propylene.

### Motor:

Permanent magnet synchronous motor, controlled by inverter.

**Supply Voltage:** Single phase 230V 50/60Hz

**Performance field:** 0.5 to 18 m<sup>3</sup>/h with heights up to 12 meters

**Liquid temperature range:** -10 °C to +110 °C

**Pumped liquid:** clean, free from solid substances, not viscous, chemically neutral. Maximum 30% glycol.

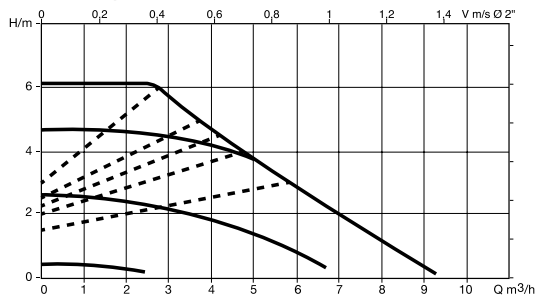
**Protection and insulation:** IP44 - Class F

**Racords not included.**

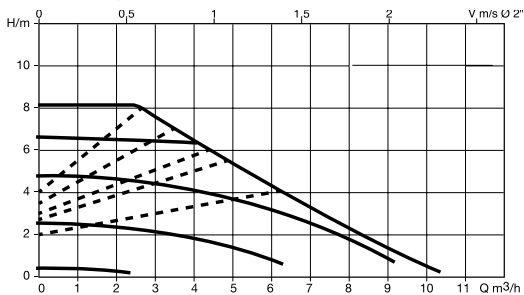
**Basic multifunction module for 0-10V is available on demand.**

# EVOPLUS SMALL

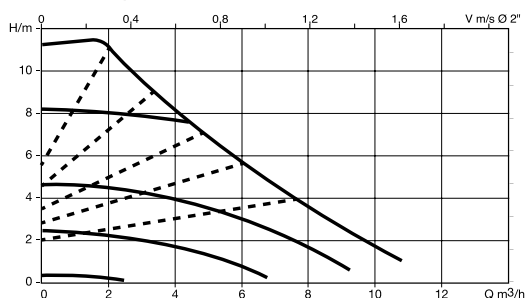
**EVOPLUS 60/180 XM**



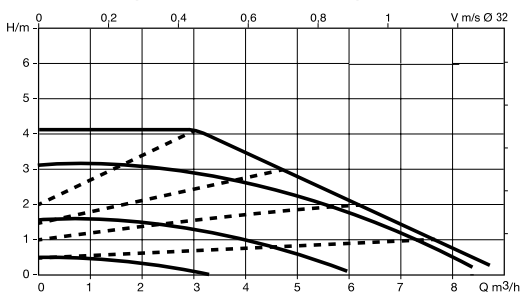
**EVOPLUS 80/180 XM**



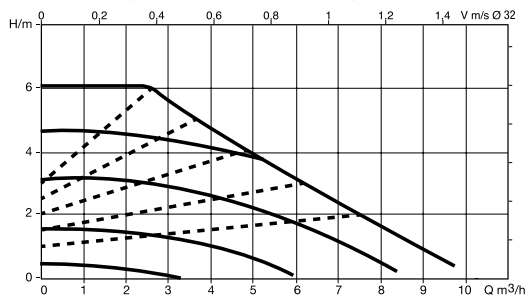
**EVOPLUS 110/180 XM**



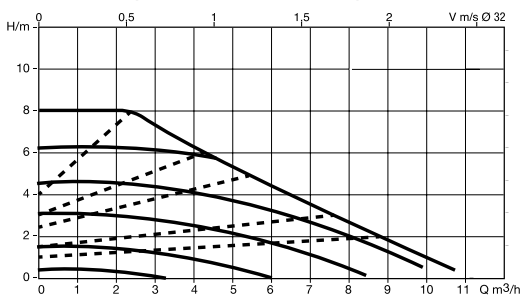
**EVOPLUS B 40/220.32 M - EVOPLUS D 40/220.32 M**



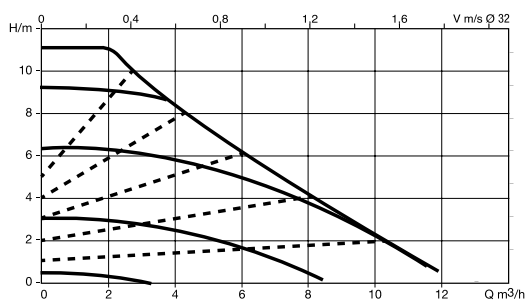
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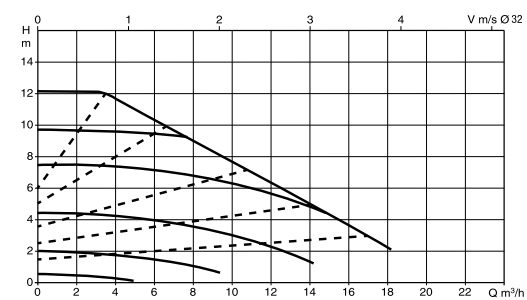
**EVOPLUS B 80/220.32 M - EVOPLUS D 80/220.32 M**



**EVOPLUS B 110/220.32 M - EVOPLUS D 110/220.32 M**



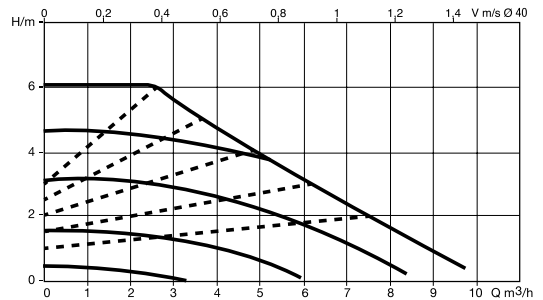
**EVOPLUS B 120/220.32 M - EVOPLUS D 120/220.32 M**



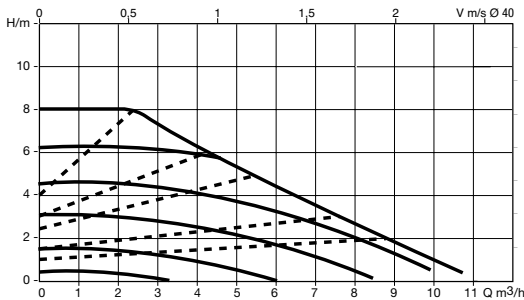
Las curvas representadas son las de VELOCIDAD CONSTANTE y PRESIÓN PROPORCIONAL.  
 The curves shown are the CONSTANT SPEED and PROPORTIONAL PRESSURE.

# EVOPLUS SMALL

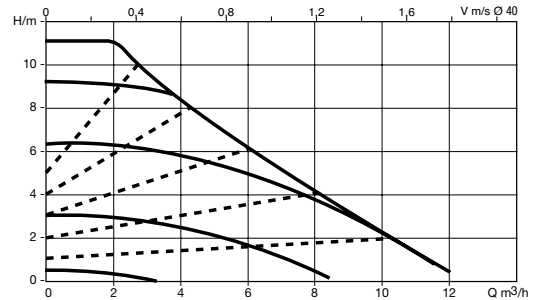
**EVOPLUS B 60/250.40 M - EVOPLUS D 60/250.40 M**



**EVOPLUS B 80/250.40 M - EVOPLUS D 80/250.40 M**



**EVOPLUS B 110/250.40 M - EVOPLUS D 110/250.40 M**



Las curvas representadas son las de VELOCIDAD CONSTANTE y PRESIÓN PROPORCIONAL.  
The curves shown are the CONSTANT SPEED and PROPORTIONAL PRESSURE.

| Tipo<br>Type                            | Distancia<br>Distance<br>mm. | Rácores<br>Connections | Datos Eléctricos |         |               | Presión<br>Mínima<br>Minimum<br>pressure | Peso<br>Weight<br>Kg. |     |      |       |     |
|---|------------------------------|------------------------|------------------|---------|---------------|--|-----------------------|-----|------|-------|-----|
|   |                              |                        | Voltaje<br>V     | P1<br>W | EEI<br>max    |  |                       |     |      |       |     |
| <b>EVOPLUS 60/180 XM (SMALL)</b>        | 180                          | 1 1/4" F               | 1 x 230V         | 100     | 0,21          | 2 bar                                    | 2,8                   |     |      |       |     |
| <b>EVOPLUS 80/180 XM (SMALL)</b>        |                              |                        |                  | 135     | 0,21          |  | 2,8                   |     |      |       |     |
| <b>EVOPLUS 110/180 XM (SMALL)</b>       |                              |                        |                  | 170     | 0,21          |  | 2,8                   |     |      |       |     |
| <b>EVOPLUS B 40/220.32 M (SMALL)</b>    | 220                          | DN 32<br>PN 6          | 1 x 230V         | 75      | 0,22          | 2 bar                                    | 6,9                   |     |      |       |     |
| <b>EVOPLUS B 60/220.32 M (SMALL)</b>    |                              |                        |                  | 105     | 0,22          |  | 6,9                   |     |      |       |     |
| <b>EVOPLUS B 80/220.32 M (SMALL)</b>    |                              |                        |                  | 140     | 0,22          |  | 6,9                   |     |      |       |     |
| <b>EVOPLUS B 110/220.32 M (SMALL)</b>   |                              |                        |                  | 190     | 0,22          |  | 6,9                   |     |      |       |     |
| <b>EVOPLUS B 120/220.32 M (SMALL)</b>   |                              |                        |                  | 340     | 0,22          |  | 14                    |     |      |       |     |
| <b>EVOPLUS D 40/220.32 M (D SMALL)</b>  |                              |                        |                  | 75      | 0,23          |  | 12,7                  |     |      |       |     |
| <b>EVOPLUS D 60/220.32 M (D SMALL)</b>  |                              |                        |                  | 105     | 0,23          |  | 12,7                  |     |      |       |     |
| <b>EVOPLUS D 80/220.32 M (D SMALL)</b>  |                              |                        |                  | 140     | 0,23          |  | 12,7                  |     |      |       |     |
| <b>EVOPLUS D 110/220.32 M (D SMALL)</b> |                              |                        |                  | 190     | 0,23          |  | 12,7                  |     |      |       |     |
| <b>EVOPLUS D 120/220.32 M (D SMALL)</b> |                              |                        |                  | 340     | 0,22          |  | 29                    |     |      |       |     |
| <b>EVOPLUS B 60/250.40 M (SMALL)</b>    |                              |                        |                  | 250     | DN 40<br>PN 6 |  | 1 x 230V              | 105 | 0,21 | 2 bar | 6,9 |
| <b>EVOPLUS B 80/250.40 M (SMALL)</b>    |                              |                        |                  |         |               |  |                       | 140 | 0,21 |       | 6,9 |
| <b>EVOPLUS B 110/250.40 M (SMALL)</b>   | 190                          | 0,21                   | 6,9              |         |               |  |                       |     |      |       |     |
| <b>EVOPLUS D 60/250.40 M (D SMALL)</b>  | 100                          | 0,22                   | 12,7             |         |               |  |                       |     |      |       |     |
| <b>EVOPLUS D 80/250.40 M (D SMALL)</b>  | 135                          | 0,22                   | 12,7             |         |               |  |                       |     |      |       |     |
| <b>EVOPLUS D 110/250.40 M (D SMALL)</b> | 190                          | 0,22                   | 12,7             |         |               |  |                       |     |      |       |     |

# EVOPLUS



## Aplicaciones:

Bombas circuladoras electrónicas, que pueden ser utilizadas para calefacción, ventilación y sistemas de aire acondicionado en edificios comerciales o residenciales, tales como hospitales, edificios de oficinas, etc... Gracias al **variador de frecuencia incorporado**, reducen considerablemente el ruido en la instalación así como los costes de funcionamiento, proporcionando una gran eficiencia en términos de ahorro energético.

## Características constructivas:

Cuerpo motor en fundición de hierro, carcasa motor en aluminio, turbina en tecnopolímero, eje-rotor y camisa protección del rotor en acero inoxidable, anillo en cerámica y anillo cierre en etileno propileno.

## Motor:

Motor síncrono de imanes permanentes, regulado mediante variador de frecuencia.

**Voltaje de alimentación:** Monofásico 230V 50/60Hz

**Campo de prestaciones:** 1 a 76 m<sup>3</sup>/h con alturas hasta 18 metros

**Campo de temperatura del líquido:** de -10°C a +110°C

**Líquido bombeado:** Limpio y libre de sustancias sólidas, no viscoso, químicamente neutro. Cantidad máxima de 30% de glicol.

**Grado de protección y aislamiento:** IP44 - Clase F

**Incorpora el módulo multifunción para control 0-10V.**



## Applications:

Electronic circulation pumps, which can be used for heating, ventilation and air conditioning systems in commercial or residential buildings, such as hospitals, office buildings, etc. Thanks to the **built-in frequency inverter**, reduces significantly the noise in the installation and reduces the operation costs, providing a great efficiency in terms of energy saving.

## Constructive characteristics:

Motor housing in cast iron, aluminum motor housing, techno polymer impeller, shaft-rotor and rotor protection sleeve in stainless steel, ceramic ring and ring closure in ethylene propylene.

## Motor:

Permanent magnet synchronous motor, controlled by inverter.

**Supply Voltage:** Single phase 230V 50/60Hz

**Performance field:** 1 to 76 m<sup>3</sup>/h with heights up to 18 meters

**Liquid temperature range:** -10 °C to +110 °C

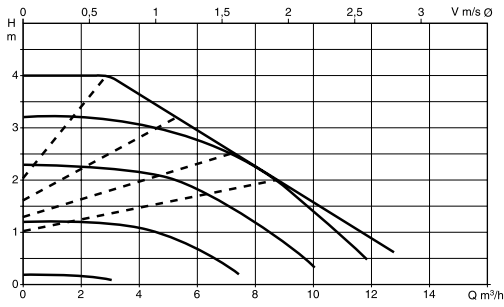
**Pumped liquid:** clean, free from solid substances, not viscous, chemically neutral. Maximum 30% glycol.

**Protection and insulation:** IP44 - Class F

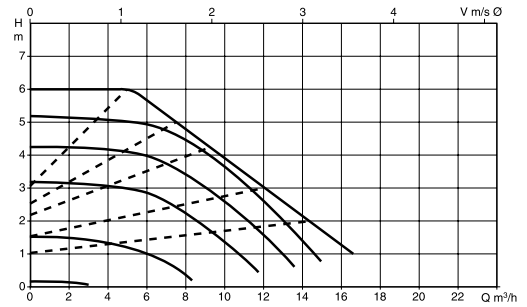
**Includes the 0-10V control multifunction module.**

# EVOPLUS

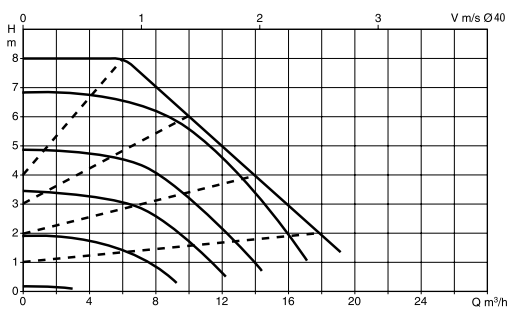
**EVOPLUS B 40/220.40 M - EVOPLUS D 40/220.40 M**



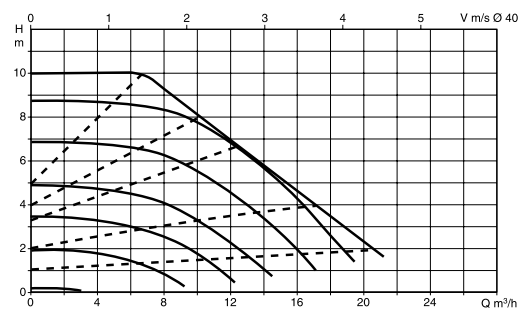
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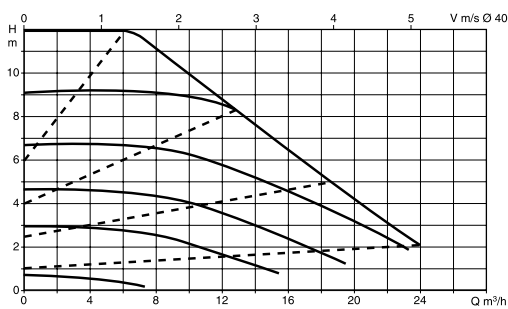
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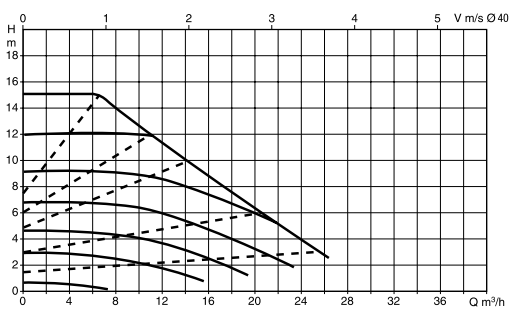
**EVOPLUS B 100/220.40 M - EVOPLUS D 100/220.40 M**



**EVOPLUS B 120/250.40 M - EVOPLUS D 120/250.40 M**

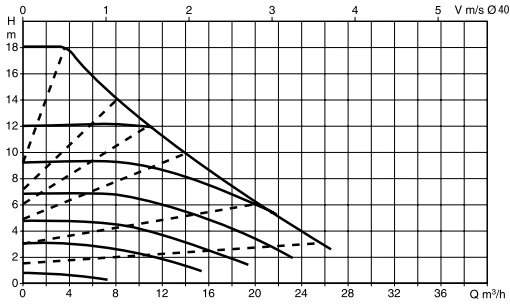


**EVOPLUS B 150/250.40 M - EVOPLUS D 150/250.40 M**

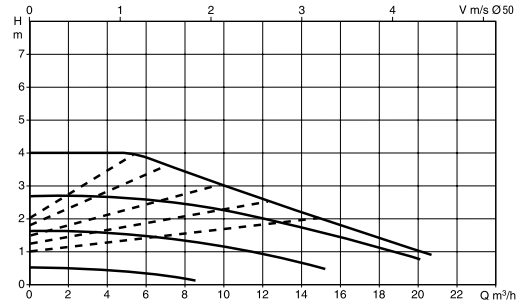


# EVOPLUS

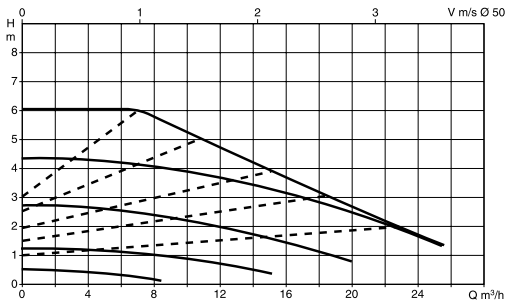
**EVOPLUS B 180/250.40 M - EVOPLUS D 180/250.40 M**



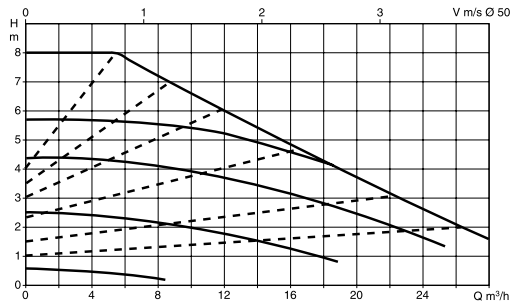
**EVOPLUS B 40/240.50 M - EVOPLUS D 40/240.50 M**



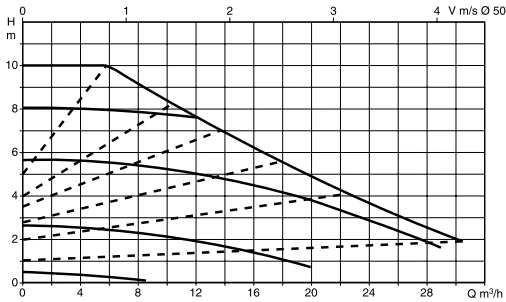
**EVOPLUS B 60/240.50 M - EVOPLUS D 60/240.50 M**



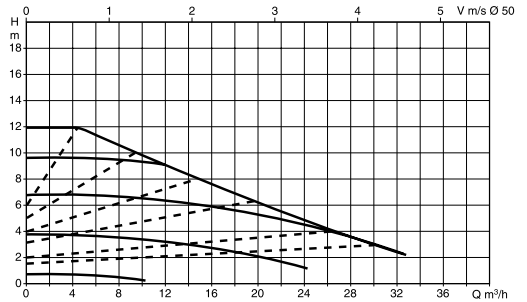
**EVOPLUS B 80/240.50 M - EVOPLUS D 80/240.50 M**



**EVOPLUS B 100/280.50 M - EVOPLUS D 100/280.50 M**



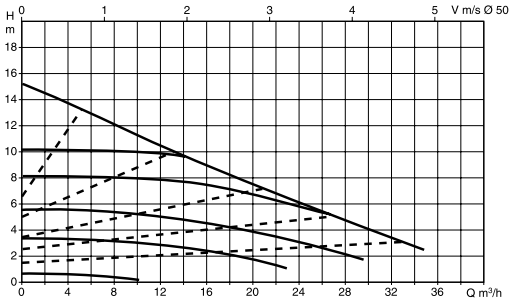
**EVOPLUS B 120/280.50 M - EVOPLUS D 120/280.50 M**



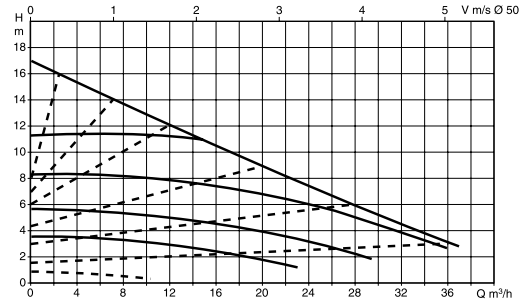


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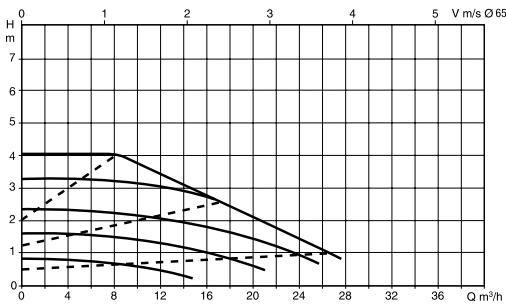
**EVOPLUS B 150/280.50 M - EVOPLUS D 150/280.50 M**



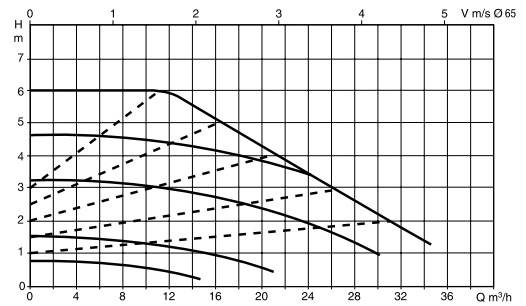
**EVOPLUS B 180/280.50 M - EVOPLUS D 180/280.50 M**



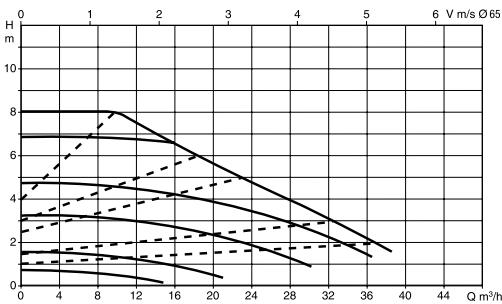
**EVOPLUS B 40/340.65 M - EVOPLUS D 40/340.65 M**



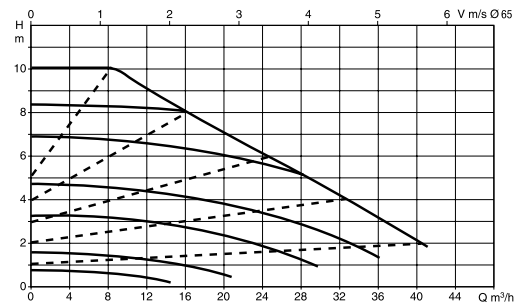
**EVOPLUS B 60/340.65 M - EVOPLUS D 60/340.65 M**



**EVOPLUS B 80/340.65 M - EVOPLUS D 80/340.65 M**

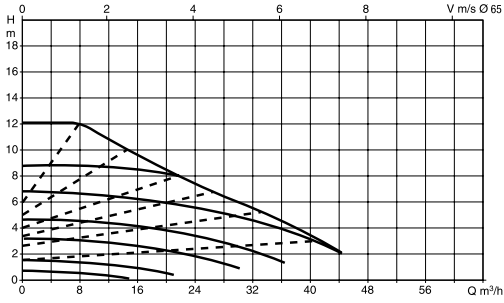


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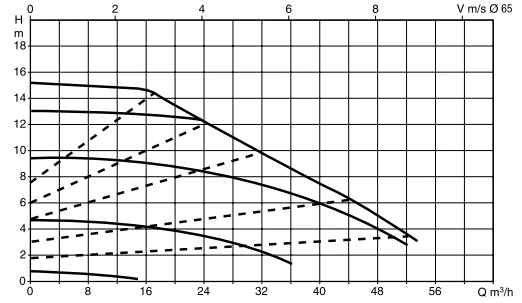


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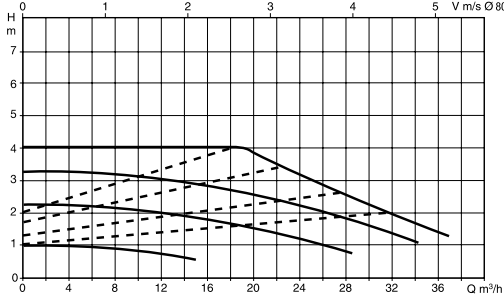
**EVOPLUS B 120/340.65 M - EVOPLUS D 120/340.65 M**



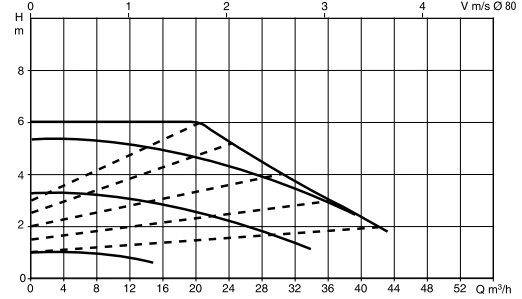
**EVOPLUS B 150/340.65 M - EVOPLUS D 150/340.65 M**



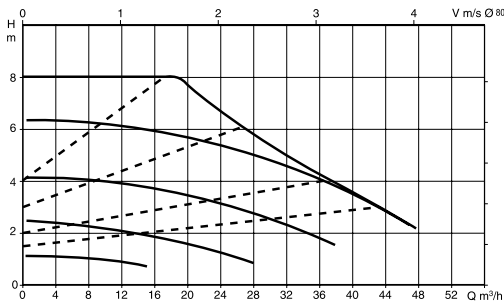
**EVOPLUS B 40/360.80 M - EVOPLUS D 40/360.80 M**



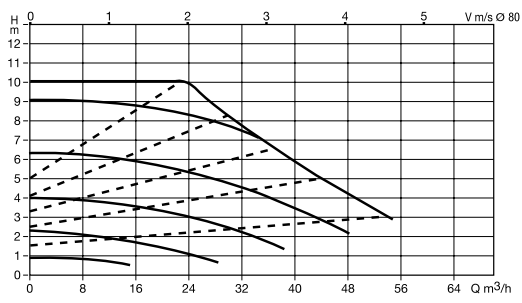
**EVOPLUS B 60/360.80 M - EVOPLUS D 60/360.80 M**



**EVOPLUS B 80/360.80 M - EVOPLUS D 80/360.80 M**

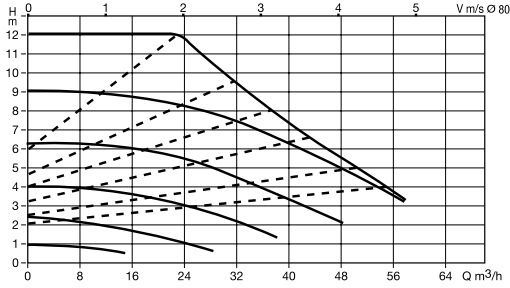


**EVOPLUS B 100/360.80 M - EVOPLUS D 100/360.80 M**

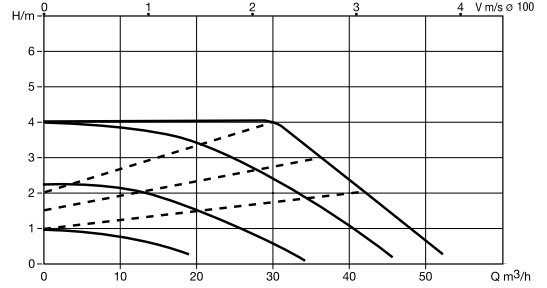


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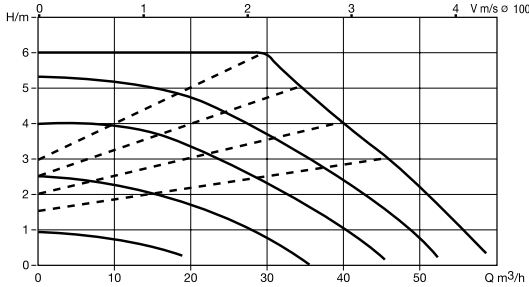
**EVOPLUS B 120/360.80 M - EVOPLUS D 120/360.80 M**



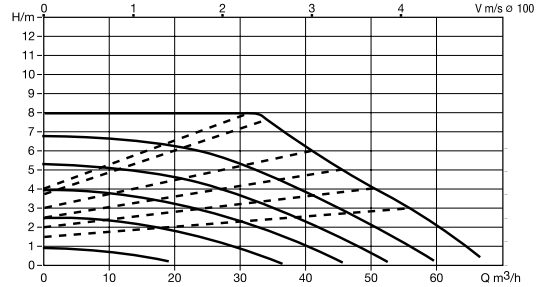
**EVOPLUS B 40/450.100 M - EVOPLUS D 40/450.100 M**



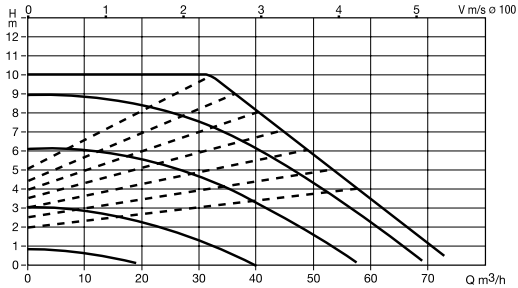
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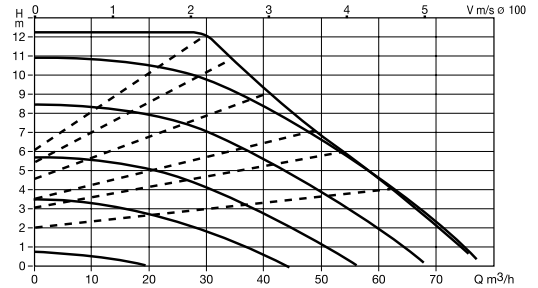
**EVOPLUS B 80/450.100 M - EVOPLUS D 80/450.100 M**



**EVOPLUS B 100/450.100 M - EVOPLUS D 100/450.100 M**



**EVOPLUS B 120/450.100 M - EVOPLUS D 120/450.100 M**



| Tipo<br><i>Type</i>            | Distancia<br><i>Distance</i><br>mm. | Rácores<br><i>Connections</i> | Datos Eléctricos |                |            | Presión<br>Mínima<br><i>Minimum</i><br><i>pressure</i> | Peso<br><i>Weight</i><br>Kg. |
|--------------------------------|-------------------------------------|-------------------------------|------------------|----------------|------------|--|------------------------------|
|                                |                                     |                               | Voltaje<br>V     | P1<br>W        | EEI<br>max |  |                              |
| <b>EVOPLUS B 40/220.40 M</b>   | 220                                 | DN 40<br>PN 10                | 1 x 230V         | 90             | 0,24       | 2 bar  | 15,5                         |
| <b>EVOPLUS B 60/220.40 M</b>   | 220                                 |                               |                  | 175            | 0,23       |  | 15,5                         |
| <b>EVOPLUS B 80/220.40 M</b>   | 220                                 |                               |                  | 260            | 0,21       |  | 15,5                         |
| <b>EVOPLUS B 100/220.40 M</b>  | 220                                 |                               |                  | 350            | 0,20       |  | 15,5                         |
| <b>EVOPLUS B 120/250.40 M</b>  | 250                                 |                               |                  | 465            | 0,20       |  | 16                           |
| <b>EVOPLUS B 150/250.40 M</b>  | 250                                 |                               |                  | 610            | 0,20       |  | 16                           |
| <b>EVOPLUS B 180/250.40 M</b>  | 250                                 |                               |                  | 610            | 0,20       |  | 16                           |
| <b>EVOPLUS B 40/240.50 M</b>   | 240                                 | DN 50<br>PN 10                | 1 x 230V         | 140            | 0,23       | 2 bar  | 17                           |
| <b>EVOPLUS B 60/240.50 M</b>   | 240                                 |                               |                  | 260            | 0,21       |  | 17                           |
| <b>EVOPLUS B 80/240.50 M</b>   | 240                                 |                               |                  | 330            | 0,21       |  | 17                           |
| <b>EVOPLUS B 100/280.50 M</b>  | 280                                 |                               |                  | 430            | 0,20       |  | 18                           |
| <b>EVOPLUS B 120/280.50 M</b>  | 280                                 |                               |                  | 530            | 0,19       |  | 18                           |
| <b>EVOPLUS B 150/280.50 M</b>  | 280                                 |                               |                  | 640            | 0,19       |  | 18                           |
| <b>EVOPLUS B 180/280.50 M</b>  | 280                                 |                               |                  | 750            | 0,19       |  | 18                           |
| <b>EVOPLUS B 40/340.65 M</b>   | 340                                 | DN 65<br>PN 10                | 1 x 230V         | 190            | 0,21       | 2 bar  | 20                           |
| <b>EVOPLUS B 60/340.65 M</b>   | 340                                 |                               |                  | 355            | 0,20       |  | 20                           |
| <b>EVOPLUS B 80/340.65 M</b>   | 340                                 |                               |                  | 465            | 0,19       |  | 20                           |
| <b>EVOPLUS B 100/340.65 M</b>  | 340                                 |                               |                  | 590            | 0,18       |  | 20                           |
| <b>EVOPLUS B 120/340.65 M</b>  | 340                                 |                               |                  | 730            | 0,18       |  | 20                           |
| <b>EVOPLUS B 150/340.65 M</b>  | 340                                 |                               |                  | 1210           | 0,18       |  | 20                           |
| <b>EVOPLUS B 40/360.80 M</b>   | 360                                 |                               |                  | DN 80<br>PN 10 | 1 x 230V   |  | 330                          |
| <b>EVOPLUS B 60/360.80 M</b>   | 360                                 | 535                           | 0,20             |                |            | 25   |                              |
| <b>EVOPLUS B 80/360.80 M</b>   | 360                                 | 670                           | 0,20             |                |            | 25   |                              |
| <b>EVOPLUS B 100/360.80 M</b>  | 360                                 | 1005                          | 0,19             |                |            | 25   |                              |
| <b>EVOPLUS B 120/360.80 M</b>  | 360                                 | 1235                          | 0,19             |                |            | 25   |                              |
| <b>EVOPLUS B 40/450.100 M</b>  | 450                                 | DN 100<br>PN 10               | 1 x 230V         | 530            | 0,19       | 2 bar  | 30                           |
| <b>EVOPLUS B 60/450.100 M</b>  | 450                                 |                               |                  | 760            | 0,18       |  | 30                           |
| <b>EVOPLUS B 80/450.100 M</b>  | 450                                 |                               |                  | 1080           | 0,18       |  | 30                           |
| <b>EVOPLUS B 100/450.100 M</b> | 450                                 |                               |                  | 1380           | 0,19       |  | 30                           |
| <b>EVOPLUS B 120/450.100 M</b> | 450                                 |                               |                  | 1560           | 0,19       |  | 30                           |
| <b>EVOPLUS D 40/220.40 M</b>   | 220                                 | DN 40<br>PN 10                | 1 x 230V         | 90             | 0,25       | 2 bar  | 31                           |
| <b>EVOPLUS D 60/220.40 M</b>   | 220                                 |                               |                  | 175            | 0,25       |  | 31                           |
| <b>EVOPLUS D 80/220.40 M</b>   | 220                                 |                               |                  | 260            | 0,25       |  | 31                           |
| <b>EVOPLUS D 100/220.40 M</b>  | 220                                 |                               |                  | 350            | 0,25       |  | 31                           |
| <b>EVOPLUS D 120/250.40 M</b>  | 250                                 |                               |                  | 465            | 0,23       |  | 32                           |
| <b>EVOPLUS D 150/250.40 M</b>  | 250                                 |                               |                  | 610            | 0,23       |  | 32                           |
| <b>EVOPLUS D 180/250.40 M</b>  | 250                                 |                               |                  | 610            | 0,23       |  | 32                           |
| <b>EVOPLUS D 40/240.50 M</b>   | 240                                 | DN 50<br>PN 10                | 1 x 230V         | 140            | 0,23       | 2 bar  | 33                           |
| <b>EVOPLUS D 60/240.50 M</b>   | 240                                 |                               |                  | 260            | 0,22       |  | 33                           |
| <b>EVOPLUS D 80/240.50 M</b>   | 240                                 |                               |                  | 330            | 0,22       |  | 33                           |
| <b>EVOPLUS D 100/280.50 M</b>  | 280                                 |                               |                  | 430            | 0,22       |  | 34                           |
| <b>EVOPLUS D 120/280.50 M</b>  | 280                                 |                               |                  | 530            | 0,22       |  | 34                           |
| <b>EVOPLUS D 150/280.50 M</b>  | 280                                 |                               |                  | 640            | 0,21       |  | 34                           |
| <b>EVOPLUS D 180/280.50 M</b>  | 280                                 |                               |                  | 750            | 0,21       |  | 34                           |
| <b>EVOPLUS D 40/340.65 M</b>   | 340                                 | DN 65<br>PN 10                | 1 x 230V         | 190            | 0,21       | 2 bar  | 37                           |
| <b>EVOPLUS D 60/340.65 M</b>   | 340                                 |                               |                  | 355            | 0,21       |  | 37                           |
| <b>EVOPLUS D 80/340.65 M</b>   | 340                                 |                               |                  | 465            | 0,21       |  | 37                           |
| <b>EVOPLUS D 100/340.65 M</b>  | 340                                 |                               |                  | 590            | 0,20       |  | 37                           |
| <b>EVOPLUS D 120/340.65 M</b>  | 340                                 |                               |                  | 730            | 0,20       |  | 37                           |
| <b>EVOPLUS D 150/340.65 M</b>  | 340                                 |                               |                  | 1210           | 0,20       |  | 37                           |
| <b>EVOPLUS D 40/360.80 M</b>   | 360                                 |                               |                  | DN 80<br>PN 10 | 1 x 230V   |  | 330                          |
| <b>EVOPLUS D 60/360.80 M</b>   | 360                                 | 535                           | 0,20             |                |            | 44   |                              |
| <b>EVOPLUS D 80/360.80 M</b>   | 360                                 | 670                           | 0,20             |                |            | 44   |                              |
| <b>EVOPLUS D 100/360.80 M</b>  | 360                                 | 1005                          | 0,19             |                |            | 44   |                              |
| <b>EVOPLUS D 120/360.80 M</b>  | 360                                 | 1235                          | 0,19             |                |            | 44   |                              |
| <b>EVOPLUS D 40/450.100 M</b>  | 450                                 | DN 100<br>PN 10               | 1 x 230V         | 530            | 0,19       | 2 bar  | 53                           |
| <b>EVOPLUS D 60/450.100 M</b>  | 450                                 |                               |                  | 760            | 0,19       |  | 53                           |
| <b>EVOPLUS D 80/450.100 M</b>  | 450                                 |                               |                  | 1080           | 0,20       |  | 53                           |
| <b>EVOPLUS D 100/450.100 M</b> | 450                                 |                               |                  | 1380           | 0,20       |  | 53                           |

# VS



**Aplicaciones:**

Bomba de circulación para instalaciones de agua caliente sanitaria de tipo cerrado o a vaso abierto.

**Características constructivas:**

Cuerpo Bomba en bronce, carcasa motor en aluminio, turbina en tecnopolímero, eje rotor, camisa de protección del rotor y disco cierre en acero inoxidable.

Anillo en cerámica y anillo sello en etilenopropileno. Motor, asíncrono de rotor húmedo sin sello mecánico. Rotor montado sobre cojinetes en grafito.

**Campo de prestaciones:** de 0,5 a 5m<sup>3</sup>/h hasta 6,5 m.c.a.

**Campo de temperatura del líquido:** +2° C a +110° C.

**Líquido bombeado:**

Limpio, libre de sustancias sólidas, no viscoso, no cristalizado y neutro.

**Máxima presión de ejercicio:** 10 bar (1000K Pa).

**Mínima presión de ejercicio:**

valores a Q máx. y temp. del líquido a +90° C: 2,5 mts.

**Grado de protección:** IP-41

**Clase de aislamiento:** F.

**Racores no incluidos.**



**Applications:**

Pump for circulating hot domestic water in closed and pressurised or open tank systems.

Also suitable for solar power systems.

**Constructive characteristics:**

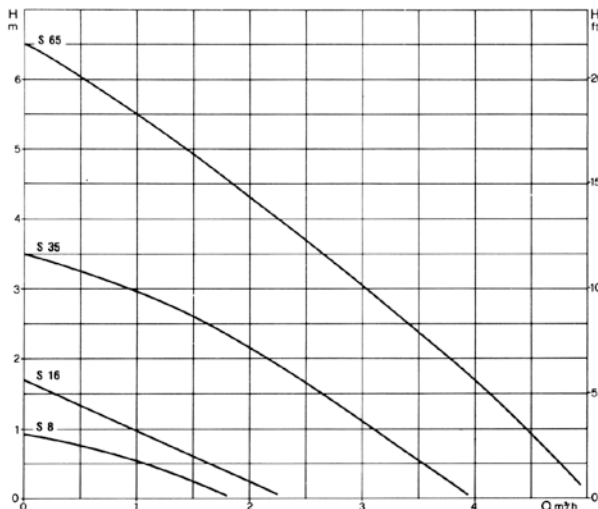
Single body comprising bronze hydraulic unit and wet rotor motor. Die-cast aluminium motor casing. Technopolymer impeller. Ceramic driving shaft mounted on graphite bearings lubricated by the pumped liquid. Stainless steel protective rotor sleeve, stator sleeve and closing flange. Ceramic thrust bearing, E.P.D.M. O-rings and brass air outlet cap.

Two or four pole asynchronous motor with squirrel cage rotor. Motor self-protected against resistance. No overload protection required.

Protection level: IP 44. Insulating class: F

Rated voltage: single-phase 230 V / 50 Hz

**Racords not included.**



| Tipo<br>Type | Alimentación<br>50 HZ | Rácores  | Datos Eléctricos |             |            |             | Entre Ejes<br>mm. | Peso<br>Kg. |
|--------------|-----------------------|----------|------------------|-------------|------------|-------------|-------------------|-------------|
|              |                       |          | r.p.m.<br>1/min. | P1 máx<br>W | Cons.<br>A | Cond.<br>µF |                   |             |
| VS 8-150     | 1 x 230 V~            | 1" Latón | 1400             | 22          | 0,26       | 2,5         | 150               | 3,1         |
| VS 16-150    | 1 x 230 V~            |          | 1400             | 41          | 0,35       | 2           | 150               | 3,5         |
| VS 35-150    | 1 x 230 V~            |          | 2680             | 56          | 0,32       | 2           | 150               | 3,1         |
| VS 65-150    | 1 x 230 V~            |          | 2680             | 78          | 0,58       | 3           | 150               | 3,1         |





# ROTOR SECO *DRY ROTOR*

| MODELO            |                  | MODELO            |                  | P2 NOMINAL |      | Q    |      |      |      |      |      |
|-------------------|------------------|-------------------|------------------|------------|------|------|------|------|------|------|------|
| MONOFASICA SIMPLE | TRIFASICA SIMPLE | MONOFASICA GEMELA | TRIFASICA GEMELA | HP         | KW   | m³/h | 0    | 3,6  | 4,8  | 6    | 12   |
|                   |                  |                   |                  |            |      |      | 0    | 60   | 80   | 100  | 200  |
| -                 | CP 40/1900 T     | -                 | -                | 1          | 0,8  |      | 17,6 | 17,6 | 17,4 | 17   | 14   |
| -                 | CP 40/2300 T     | -                 | -                | 1,5        | 1,1  |      | 21,8 | 21,8 | 21,3 | 21   | 18   |
| -                 | CP 40/2700 T     | -                 | -                | 2          | 1,5  |      | 26,9 | 26,9 | 26,7 | 26,2 | 23,2 |
| -                 | CP 40/3500 T     | -                 | -                | 3          | 2,2  |      | 34,8 | 34,9 | 34,7 | 34,2 | 31,7 |
| -                 | CP 40/3800 T     | -                 | -                | 4          | 3    |      |      |      |      | 38   | 35   |
| -                 | CP 40/4700 T     | -                 | -                | 5,5        | 4    |      |      |      |      | 47   | 44   |
| -                 | CP 40/5500 T     | -                 | -                | 7,5        | 5,5  |      |      |      |      | 55   | 53   |
| -                 | CP 40/6200 T     | -                 | -                | 10         | 7,5  |      |      |      |      | 62   | 59   |
| -                 | CP 50/2200 T     | -                 | -                | 1,5        | 1,1  |      |      |      |      | 20   | 16,5 |
| -                 | CP 50/2600 T     | -                 | -                | 2          | 1,5  |      |      |      |      | 25   | 22   |
| -                 | CP 50/3100 T     | -                 | -                | 3          | 2,2  |      |      |      |      | 31   | 28,5 |
| -                 | CP 50/4100 T     | -                 | -                | 5,5        | 4    |      |      |      |      | 40,7 | 38,5 |
| -                 | CP 50/4600 T     | -                 | -                | 7,5        | 5,5  |      |      |      |      |      |      |
| -                 | CP 50/5100 T     | -                 | -                | 10         | 7,5  |      |      |      |      |      |      |
| -                 | CP 50/5650 T     | -                 | -                | 10         | 7,5  |      |      |      |      |      |      |
| -                 | CP 65/1470 T     | -                 | -                | 2          | 1,5  |      | 14,7 |      |      | 14,5 | 14,3 |
| -                 | CP 65/1900 T     | -                 | -                | 3          | 2,2  |      | 19   |      |      | 18,7 | 18,4 |
| -                 | CP 65/2280 T     | -                 | -                | 4          | 3    |      | 22,8 |      |      | 22,5 | 22,3 |
| -                 | CP 65/2640 T     | -                 | -                | 5,5        | 4    |      | 26,4 |      |      | 26,2 | 26   |
| -                 | CP 65/3400 T     | -                 | -                | 7,5        | 5,5  |      | 34   |      |      |      |      |
| -                 | CP 65/4100 T     | -                 | -                | 10         | 7,5  |      | 41   |      |      |      |      |
| -                 | CP 65/4700 T     | -                 | -                | 15         | 11   |      | 47   |      |      |      |      |
| -                 | CP 65/5500 T     | -                 | -                | 20         | 15   |      | 55   |      |      |      |      |
| -                 | CP 65/6150 T     | -                 | -                | 25         | 18,5 |      | 61,5 |      |      |      |      |
| -                 | CP 65/7350 T     | -                 | -                | 30         | 22   |      | 73,5 |      |      |      |      |
| -                 | CP 65/9250 T     | -                 | -                | 40         | 30   |      | 92,5 |      |      |      |      |
| -                 | CP 80/1400 T     | -                 | -                | 3          | 2,2  |      | 14   |      |      |      |      |
| -                 | CP 80/1700 T     | -                 | -                | 4          | 3    |      | 17   |      |      |      |      |
| -                 | CP 80/2050 T     | -                 | -                | 5,5        | 4    |      | 20,5 |      |      |      |      |
| -                 | CP 80/2400 T     | -                 | -                | 7,5        | 5,5  |      | 24   |      |      |      |      |
| -                 | CP 80/2770 T     | -                 | -                | 10         | 7,5  |      | 27,7 |      |      |      |      |
| -                 | CP 80/3250 T     | -                 | -                | 15         | 11   |      | 32,5 |      |      |      |      |
| -                 | CP 80/4000 T     | -                 | -                | 20         | 15   |      | 40   |      |      |      |      |
| -                 | CP 80/5150 T     | -                 | -                | 25         | 18,5 |      | 51,5 |      |      |      |      |
| -                 | CP 80/5650 T     | -                 | -                | 30         | 22   |      | 56,5 |      |      |      |      |
| -                 | CP 80/6850 T     | -                 | -                | 40         | 30   |      | 68,5 |      |      |      |      |
| -                 | CP 80/8600 T     | -                 | -                | 50         | 37   |      | 86   |      |      |      |      |
| -                 | CP 80/9600 T     | -                 | -                | 60         | 45   |      | 96   |      |      |      |      |
| -                 | CP 80/10200 T    | -                 | -                | 75         | 55   |      | 102  |      |      |      |      |
| -                 | CP 100/1600 T    | -                 | -                | 5,5        | 4    |      | 16   |      |      |      |      |
| -                 | CP 100/1950 T    | -                 | -                | 7,5        | 5,5  |      | 19,5 |      |      |      |      |
| -                 | CP 100/2350 T    | -                 | -                | 10         | 7,5  |      | 23,5 |      |      |      |      |
| -                 | CP 100/2400 T    | -                 | -                | 15         | 11   |      | 24   |      |      |      |      |
| -                 | CP 100/3050 T    | -                 | -                | 20         | 15   |      | 30,5 |      |      |      |      |
| -                 | CP 100/3550 T    | -                 | -                | 25         | 18,5 |      | 35,5 |      |      |      |      |
| -                 | CP 100/3850 T    | -                 | -                | 30         | 22   |      | 38,5 |      |      |      |      |
| -                 | CP 100/4800 T    | -                 | -                | 40         | 30   |      | 48   |      |      |      |      |
| -                 | CP 100/5600 T    | -                 | -                | 50         | 37   |      | 56   |      |      |      |      |
| -                 | CP 100/6300 T    | -                 | -                | 60         | 45   |      | 63   |      |      |      |      |
| -                 | CP 100/8300 T    | -                 | -                | 75         | 55   |      | 83   |      |      |      |      |
| -                 | CP 125/4750 T    | -                 | -                | 50         | 37   |      | 46,5 |      |      |      |      |
| -                 | CP 125/5300 T    | -                 | -                | 60         | 45   |      | 51,5 |      |      |      |      |
| -                 | CP 125/5800 T    | -                 | -                | 75         | 55   |      | 57,5 |      |      |      |      |

H (m)





# ALM-ALP

centrífugas circuladoras  
*circulating centrifugals*



**Aplicaciones:** Bomba de circulación para instalaciones de calefacción, refrigeración y agua caliente sanitaria de tipo cerrado o a vaso abierto.

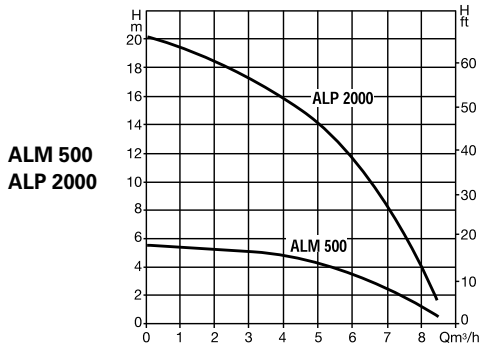
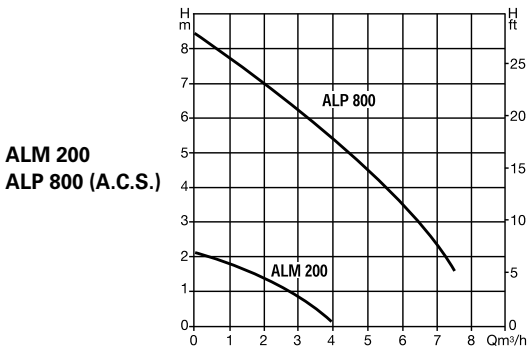
**Características constructivas:** Cuerpo bomba y soporte motor en fundición para ALM 500 - ALP 2000, en bronce para los modelos ALM 200 - ALP 800. Turbina en Tecnopolímero B, sello mecánico en carbón/cerámica. Eje Rotor en acero inoxidable. Motor IE3 de tipo asíncrono, cerrado y refrigerado a ventilación externa a 4 polos para las ALM y a 2 polos para las ALP. Protección Termoamperimétrica y condensador permanente incorporado en versión monofásica. Construcción SEGUN NORMATIVAS CEI. Campo de Prestaciones: de 2 a 8,5 m<sup>3</sup>/h. hasta 20 mts. Líquido de Bombeado: Limpio, sin sustancias sólidas, no viscoso, no cristalizado y químicamente neutro. Campo de Temperatura del líquido: de -15° C a + 120° C. Máxima Temperatura ambiente: + 40° C. Máxima Presión de Trabajo: 10 bar (1.000 Kpa). Grado de Protección: IP-44. Cuadro de Aislamiento: F. **Racores no incluidos.**



**Applications:** Circulation pump for hot or cold water in-line connections, suitable for installation in series directly to the piping in civil and industrial heating, conditioning and hot water plants.

**Constructive characteristics:** Pump body and motor support in cast iron for ALM 500 and ALP 2000, and in bronze for ALM 200 and ALP 800. Intake and delivery connection: 1 1/2" M-GAS for ALM 200 and ALP 800 and 2" M-GAS for ALM 500 and ALP 2000. Technopolymer impeller. carbon/ceramic mechanical seal. Constructional features of the motor. IE3 induction motor, closed and cooled with external ventilation, four-pole for the ALM version and two-pole for the ALP version. Rotor mounted on oversized, greased-for-life ball bearings to guarantee silent running and long life. Manufactured according to: CEI 2-3 standards.

**Racords not included.**



| Tipo<br>Type | Alimentación<br>50 HZ | Rácores | Datos Eléctricos |             |                  |      |            |             | Entre<br>Ejes<br>mm. | Peso<br>Kg. |
|--------------|-----------------------|---------|------------------|-------------|------------------|------|------------|-------------|----------------------|-------------|
|              |                       |         | r.p.m.<br>1/min. | P1 máx<br>W | P2 NOMINAL<br>KW | HP   | Cons.<br>A | Cond.<br>µF |                      |             |
| ALM 200 M    | 1 x 230 V~            | 1" F    | 1380             | 95          | 0,06             | 0,08 | 0,5        | 5           | 180                  | 7           |
| ALM 200 T    | 3 x 230/400 V~        | 1" F    | 1380             | 70          | 0,06             | 0,08 | 0,5-0,3    | -           | 180                  | 7           |
| ALP 800 M    | 1 x 230 V~            | 1" F    | 2820             | 210         | 0,37             | 0,5  | 2,5        | 12,5        | 180                  | 7           |
| ALP 800 T    | 3 x 230/400 V~        | 1" F    | 2820             | 200         | 0,37             | 0,5  | 2-1,2      | -           | 180                  | 7           |
| ALM 500 M    | 1 x 230 V~            | 1/4" F  | 1380             | 220         | 0,25             | 0,33 | 1,1        | 5           | 250                  | 14          |
| ALM 500 T    | 3 x 230/400 V~        | 1/4" F  | 1380             | 210         | 0,25             | 0,33 | 1,1-0,63   | -           | 250                  | 14          |
| ALP 2000 M   | 1 x 230 V~            | 1/4" F  | 2820             | 750         | 0,55             | 0,75 | 3,8        | 16          | 250                  | 14          |
| ALP 2000 T   | 3 x 230/400 V~        | 1/4" F  | 2820             | 700         | 0,55             | 0,75 | 2,5-1,45   | -           | 250                  | 14          |

# KLM KLP DKLM DKLP



**Aplicaciones:** Bomba de circulación para instalaciones de calefacción, refrigeración y agua caliente sanitaria de tipo cerrado o a vaso abierto.

**Características constructivas:** Cuerpo bomba y soporte motor en fundición. Turbina en tecnopolímero B, sello mecánico en carbón/cerámica. Eje rotor en acero inoxidable. Motor IE3 de tipo asíncrono, cerrado y refrigerado a ventilación externa a 4 polos para las KLM y a 2 polos para las KLP. Protección term-amperimétrica y

condensador permanente incorporado en versión monofásica. Construcción según Normativas CEI. **Campo de prestaciones:** de 2 a 70 m<sup>3</sup>/h hasta 12 mts. **Líquido bombeado:** Limpio, sin sustancias sólidas, no viscoso, no cristalizado y químicamente neutro. **Campo de temperatura del líquido:** de -15° C a + 120° C. **Máxima temperatura ambiente:** + 40° C. **Máxima presión de trabajo:** 10 bar (1000 Kpa). **Grado de protección:** IP 44 caja bornes IP 55 (DN 50-65-80). **Grado de aislamiento:** F.

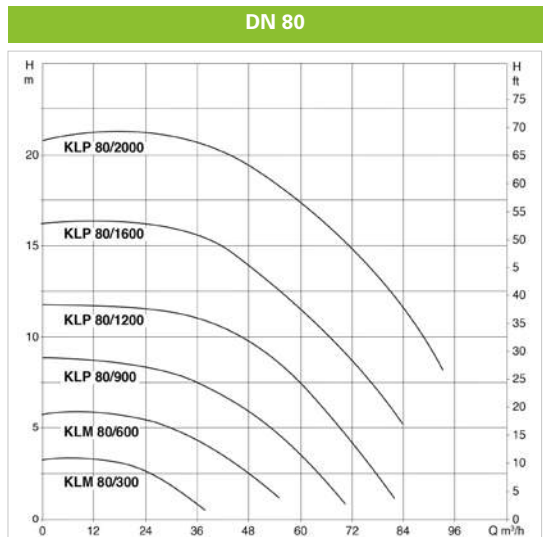
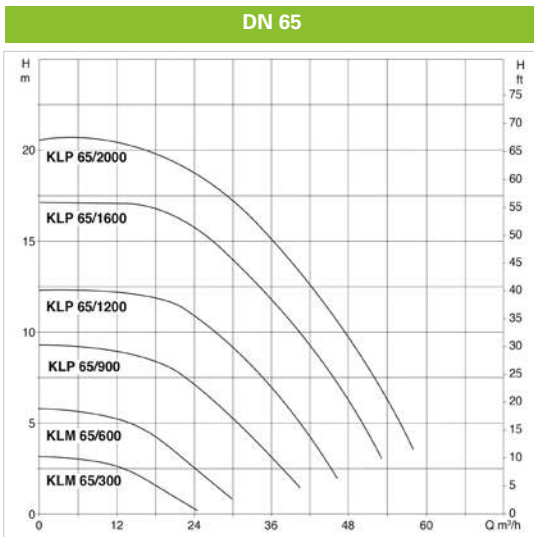
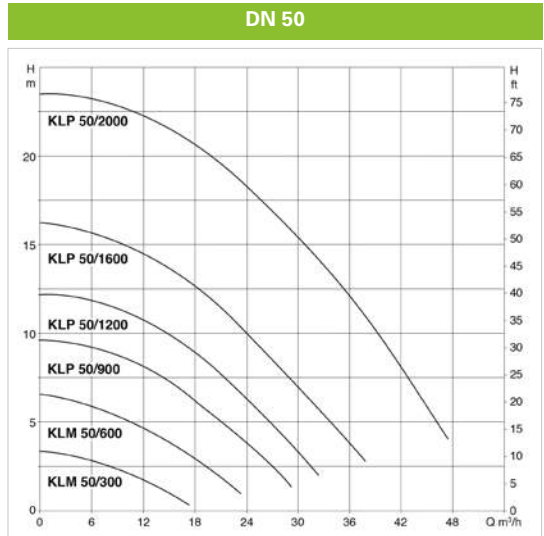
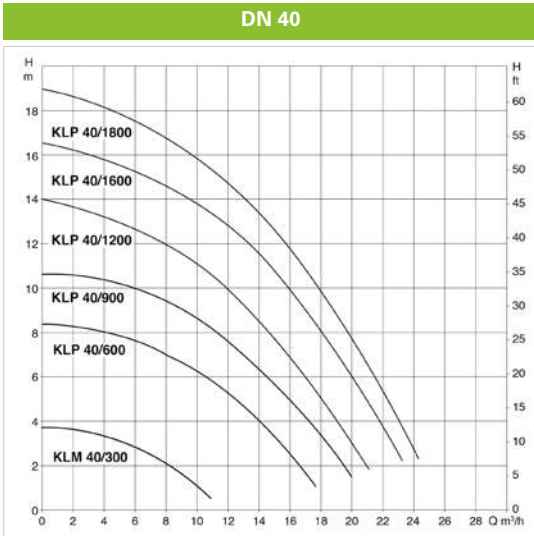
| Tipo<br>Type     | P1<br>(kW) | P2   |      | A         |            | uF | r.p.m | Bridas<br>Flanges | Distancia<br>Distance | Peso<br>Weight<br>Kg. |
|------------------|------------|------|------|-----------|------------|----|-------|-------------------|-----------------------|-----------------------|
|                  |            | kW   | HP   | 230V (1~) | 230/400V   |    |       |                   |                       |                       |
| KLM-DKLM 40/300  | 0,23       | 0,25 | 0,33 | 1,15      | 1,1 - 0,63 | 5  | 1400  | DN40 / PN 10      | 250                   | 17-40                 |
| KLP-DKLP 40/600  | 0,55       | 0,37 | 0,5  | 2,6       | 1,9 - 1,1  | 10 | 2800  | DN40 / PN 10      | 250                   | 17-40                 |
| KLP-DKLP 40/900  | 0,6        | 0,37 | 0,5  | 2,8       | 2,1 - 1,2  | 10 | 2850  | DN40 / PN 10      | 250                   | 18-41                 |
| KLP-DKLP 40/1200 | 0,75       | 0,55 | 0,75 | 3,8       | 2,4 - 1,4  | 14 | 2850  | DN40 / PN 10      | 250                   | 18-41                 |
| KLP-DKLP 40/1600 | 0,96       | 0,75 | 1    | 4,7       | 3,7 - 2,1  | 20 | 2840  | DN40 / PN 10      | 250                   | 24-46                 |
| KLP-DKLP 40/1800 | 1,09       | 0,85 | 1,15 | 5,4       | 4 - 2,3    | 20 | 2840  | DN40 / PN 10      | 250                   | 25-46                 |
| KLM-DKLM 50/300  | 0,36       | 0,25 | 0,33 | 1,85      | 1,2 - 0,7  | 10 | 1370  | DN50 / PN 10      | 280                   | 24-44                 |
| KLM-DKLM 50/600  | 0,45       | 0,25 | 0,33 | 2,1       | 1,4 - 0,8  | 10 | 1370  | DN50 / PN 10      | 280                   | 26-51                 |
| KLP-DKLP 50/900  | 0,93       | 0,75 | 1    | 4,2       | 2,8 - 1,6  | 25 | 2800  | DN50 / PN 10      | 280                   | 27-52                 |
| KLP-DKLP 50/1200 | 1,1        | 0,75 | 1    | 5         | 3,3 - 1,9  | 25 | 2800  | DN50 / PN 10      | 280                   | 29-54                 |
| KLP-DKLP 50/1600 | 1,3        | 1    | 1,36 | 7,1       | 4,3 - 2,5  | 40 | 2840  | DN50 / PN 10      | 280                   | 27-55                 |
| KLP-DKLP 50/2000 | 2,3        | 1,84 | 2,5  | 11        | 7,6 - 4,4  | 40 | 2840  | DN50 / PN 10      | 280                   | 33-59                 |
| KLM-DKLM 65/300  | 0,4        | 0,25 | 0,33 | -         | 1,4 - 0,8  | -  | 1350  | DN65 / PN 10      | 340                   | 26-49                 |
| KLM-DKLM 65/600  | 0,55       | 0,37 | 0,5  | -         | 2 - 1,15   | -  | 1380  | DN65 / PN 10      | 340                   | 30-55                 |
| KLP-DKLP 65/900  | 1,05       | 1,1  | 1,5  | -         | 3,8 - 2,2  | -  | 2820  | DN65 / PN 10      | 340                   | 32-57                 |
| KLP-DKLP 65/1200 | 1,45       | 1,1  | 1,5  | -         | 4,7 - 2,7  | -  | 2820  | DN65 / PN 10      | 340                   | 34-61                 |
| KLP-DKLP 65/1600 | 2          | 1,65 | 2,25 | -         | 6,5 - 3,8  | -  | 2860  | DN65 / PN 10      | 340                   | 35-67                 |
| KLP-DKLP 65/2000 | 2,5        | 2    | 2,7  | -         | 8,1 - 4,7  | -  | 2830  | DN65 / PN 10      | 340                   | 38-73                 |
| KLM-DKLM 80/300  | 0,4        | 0,25 | 0,33 | -         | 1,4 - 0,8  | -  | 1350  | DN80 / PN 10      | 360                   | 32-47                 |
| KLM-DKLM 80/600  | 1          | 0,75 | 1    | -         | 3,4 - 1,95 | -  | 1400  | DN80 / PN 10      | 360                   | 36-63                 |
| KLP-DKLP 80/900  | 1,8        | 1,84 | 2,5  | -         | 6,3 - 3,6  | -  | 2820  | DN80 / PN 10      | 360                   | 38-68                 |
| KLP-DKLP 80/1200 | 2,4        | 1,84 | 2,5  | -         | 7,6 - 4,4  | -  | 2820  | DN80 / PN 10      | 360                   | 42-75                 |
| KLP-DKLP 80/1600 | 3,2        | 2,5  | 3,5  | -         | 10,3 - 6   | -  | 2800  | DN80 / PN 10      | 360                   | 42-82                 |
| KLP-DKLP 80/2000 | 4,7        | 3,7  | 5    | -         | 14 - 8,1   | -  | 2870  | DN80 / PN 10      | 360                   | 48-94                 |

# KLM KLP DKLM DKLP



**Applications:** Circulation pump for hot or cold water in-line connections, suitable for installation in series directly to the piping in civil and industrial heating, conditioning and hot water plants.

**Constructive characteristics:** Pump body and motor support in cast iron. Flanged suction and delivery connections in PN 10 with threaded holes for control pressure gauges. This range can also accept counterflanges in PN 6 in order to facilitate pump interchange in existing installations. Technopolymer impeller. Carbon/ceramic mechanical seal. The twin version allows the pumps to be used alternately where a backup unit is required or used simultaneously.



# CM



### Aplicaciones:

Bomba de circulación para instalaciones de calefacción, refrigeración y agua caliente sanitaria de tipo cerrado o a vaso abierto.

### Características constructivas:

Cuerpo bomba, soporte motor, turbina y tapa ventilador en fundición.

De SERIE con contrabridas.

Sello mecánico en carbón/cerámica.

Eje Rotor en acero inoxidable.

Motor IE3 de tipo asíncrono, cerrado y refrigerado a ventilación externa a 4 polos.

CONSTRUCCIÓN SEGUN NORMATIVAS CEI.

Campo de Prestaciones: de 6 a 420 m<sup>3</sup>/h hasta 41 mts.

Líquido Bombeado: Limpio, sin sustancias sólidas, no viscoso, no cristalizado y químicamente neutro.

Campo de Temperatura del líquido: de -15° C a + 120° C.

Máxima Temperatura ambiente: + 40° C.

Máxima Presión de Trabajo: 16 bar (1.600 Kpa).

Grado de Protección: IP-44 caja bornes IP-55.

Grado de Aislamiento: F.



### Applications:

Circulating pump with in-line connections, suitable for civil and industrial heating, conditioning, refrigeration and hot water for plumbing.

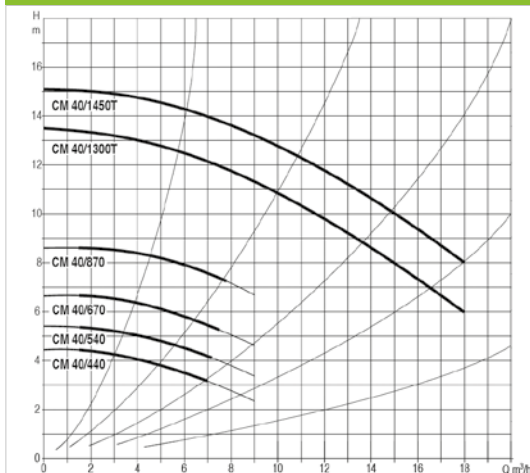
### Constructive characteristics:

Body and support in cast iron. Cast iron impeller for all models from CM 65 to CM 150 and in tephnopolymer for models from CM 40 to CM 50. Flanged suction and delivery connections in PN 16 with threaded holes for control pressure gauges. Carbon/ceramic seal.

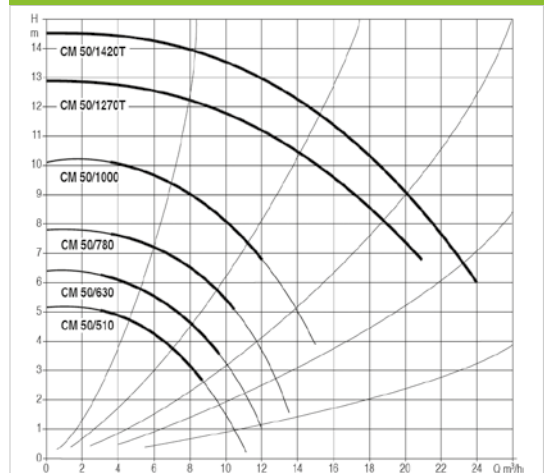
### Motor:

Four-pole IE3 induction motor, closed and cooled with external ventilation. Rotor mounted on oversized, greased-for-life ball bearings to guarantee silent running and long life.

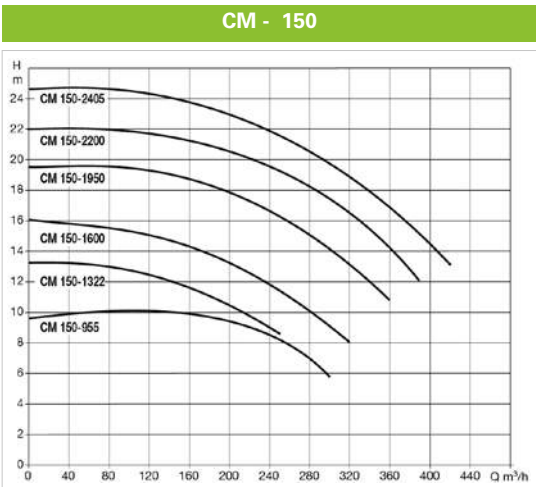
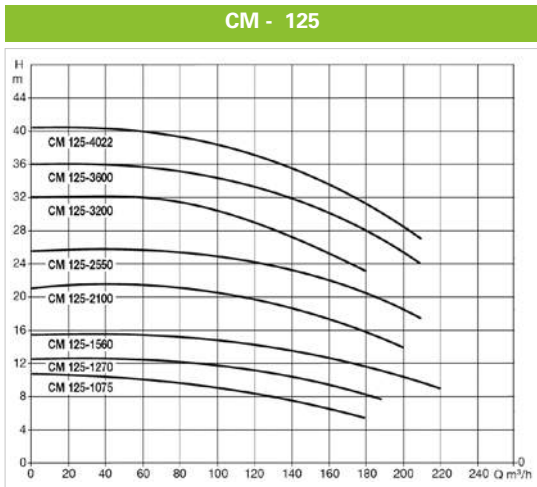
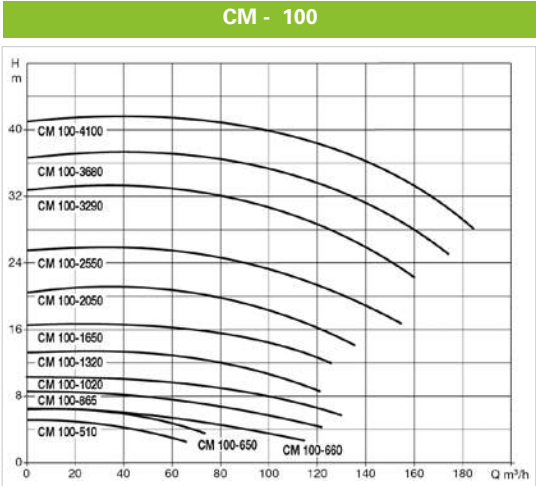
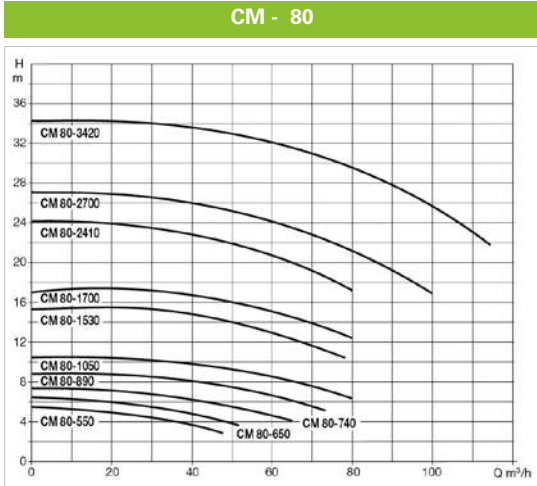
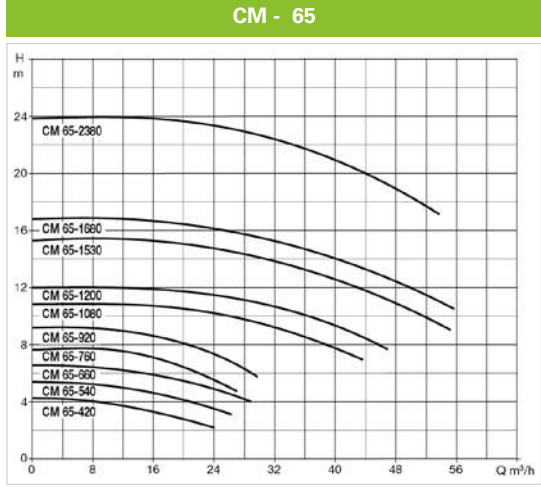
CM - 40



CM - 50



# CM



# CM

| Tipo<br><i>Type</i> | Alimentación<br>50 HZ | BRIDAS | Datos Eléctricos |              |                  |      |            | Entre<br>Ejes<br>mm. | Peso<br>Kg. |
|---------------------|-----------------------|--------|------------------|--------------|------------------|------|------------|----------------------|-------------|
|                     |                       |        | r.p.m.<br>1/min. | P1 máx<br>kW | P2 NOMINAL<br>HP | kW   | Cons.<br>A |                      |             |
| CM 40/440 T         | 3 x 230/400 V         | DN 40  | 1480             | 0,28         | 1                | 0,75 | 2,1 - 1,2  | 390                  | 35,3        |
| CM 40/540 T         | 3 x 230/400 V         | DN 40  | 1480             | 0,33         | 1                | 0,75 | 2,1 - 1,2  | 390                  | 35,8        |
| CM 40/670 T         | 3 x 230/400 V         | DN 40  | 1480             | 0,39         | 1                | 0,75 | 2,2 - 1,3  | 390                  | 35,1        |
| CM 40/870 T         | 3 x 230/400 V         | DN 40  | 1480             | 0,59         | 1                | 0,75 | 2,2 - 1,3  | 390                  | 36,9        |
| CM 40/1300 T        | 3 x 230/400 V         | DN 40  | 1450             | 1,1          | 1                | 0,75 | 3,5 - 2    | 380                  | 30          |
| CM 40/1450 T        | 3 x 230/400 V         | DN 40  | 1450             | 1,2          | 1,3              | 1    | 4,2 - 2,4  | 380                  | 30          |
| CM 50/510 T         | 3 x 230/400 V         | DN 50  | 1480             | 0,35         | 1                | 0,75 | 2,1 - 1,2  | 425                  | 39          |
| CM 50/630 T         | 3 x 230/400 V         | DN 50  | 1480             | 0,5          | 1                | 0,75 | 2,2 - 1,3  | 425                  | 39          |
| CM 50/780 T         | 3 x 230/400 V         | DN 50  | 1470             | 0,5          | 1                | 0,75 | 2,2 - 1,3  | 425                  | 38,6        |
| CM 50/1000 T        | 3 x 230/400 V         | DN 50  | 1470             | 0,64         | 1                | 0,75 | 2,4 - 1,4  | 425                  | 38,5        |
| CM 50/1270 T        | 3 x 230/400 V         | DN 50  | 1450             | 1,4          | 1,5              | 1,1  | 4,5 - 2,6  | 400                  | 36          |
| CM 50/1420 T        | 3 x 230/400 V         | DN 50  | 1450             | 1,4          | 1,5              | 1,1  | 4,5 - 2,6  | 400                  | 36          |
| CM 65/420 T         | 3 x 230/400 V         | DN 65  | 1400             | 0,4          | 0,33             | 0,25 | 1,5 - 0,9  | 360                  | 46          |
| CM 65/540 T         | 3 x 230/400 V         | DN 65  | 1380             | 0,6          | 0,5              | 0,33 | 1,9 - 1,1  | 360                  | 46,1        |
| CM 65/660 T         | 3 x 230/400 V         | DN 65  | 1400             | 0,8          | 0,75             | 0,55 | 2,6 - 1,5  | 360                  | 57,9        |
| CM 65/760 T         | 3 x 230/400 V         | DN 65  | 1390             | 0,8          | 0,75             | 0,55 | 2,7 - 1,6  | 360                  | 57,9        |
| CM 65/920 T         | 3 x 230/400 V         | DN 65  | 1390             | 1,1          | 1                | 0,75 | 3,6 - 2,1  | 360                  | 59,7        |
| CM 65/1080 T        | 3 x 230/400 V         | DN 65  | 1400             | 1,5          | 1,5              | 1,1  | 5,1 - 3    | 475                  | 84,3        |
| CM 65/1200 T        | 3 x 230/400 V         | DN 65  | 1400             | 1,9          | 2                | 1,5  | 6,4 - 3,7  | 475                  | 86,9        |
| CM 65/1530 T        | 3 x 230/400 V         | DN 65  | 1400             | 2,6          | 3                | 2,2  | 8,8 - 5,1  | 475                  | 89,6        |
| CM 65/1680 T        | 3 x 400 V             | DN 65  | 1420             | 3,2          | 4                | 3    | 6          | 475                  | 82,2        |
| CM 65/2380 T        | 3 x 400 V             | DN 65  | 1416             | 4,7          | 5,5              | 4    | 10         | 475                  | 105,7       |
| CM 80/550 T         | 3 x 230/400 V         | DN 80  | 1390             | 0,8          | 0,75             | 0,55 | 2,7 - 1,6  | 360                  | 61,3        |
| CM 80/650 T         | 3 x 230/400 V         | DN 80  | 1396             | 1,1          | 1                | 0,75 | 3,5 - 2    | 360                  | 62,8        |
| CM 80/740 T         | 3 x 230/400 V         | DN 80  | 1400             | 1,5          | 1,5              | 1,1  | 5,1 - 3    | 440                  | 90          |
| CM 80/890 T         | 3 x 230/400 V         | DN 80  | 1400             | 1,9          | 2                | 1,5  | 6,4 - 3,7  | 440                  | 94          |
| CM 80/1050 T        | 3 x 230/400 V         | DN 80  | 1400             | 3            | 3                | 2,2  | 8,8 - 5,1  | 440                  | 78,8        |
| CM 80/1530 T        | 3 x 400 V             | DN 80  | 1400             | 4            | 4                | 3    | 6          | 500                  | 125,4       |
| CM 80/1700 T        | 3 x 400 V             | DN 80  | 1400             | 5,8          | 5,5              | 4    | 10         | 500                  | 138,6       |
| CM 80/2410 T        | 3 x 400 V             | DN 80  | 1420             | 6,7          | 7,5              | 5,5  | 12,7       | 620                  | 166,2       |
| CM 80/2700 T        | 3 x 400 V             | DN 80  | 1450             | 8,9          | 10               | 7,5  | 16         | 620                  | 192,4       |
| CM 80/3420 T        | 3 x 400 V             | DN 80  | 1450             | 13           | 15               | 11   | 24         | 620                  | 209,5       |
| CM 100/510 T        | 3 x 230/400 V         | DN 100 | 1400             | 1            | 1                | 0,75 | 3,5 - 2    | 500                  | 99,9        |
| CM 100/650 T        | 3 x 230/400 V         | DN 100 | 1400             | 1,5          | 1,5              | 1,1  | 5,1 - 3    | 500                  | 104,7       |
| CM 100/660 T        | 3 x 230/400 V         | DN 100 | 1400             | 1,9          | 2                | 1,5  | 6,4 - 3,7  | 550                  | 108,8       |
| CM 100/865 T        | 3 x 230/400 V         | DN 100 | 1400             | 3            | 3                | 2,2  | 8,8 - 5,1  | 550                  | 104         |
| CM 100/1020 T       | 3 x 400 V             | DN 100 | 1400             | 4            | 4                | 3    | 6          | 550                  | 109,3       |
| CM 100/1320 T       | 3 x 400 V             | DN 100 | 1400             | 5,8          | 5,5              | 4    | 10         | 550                  | 141         |
| CM 100/1650 T       | 3 x 400 V             | DN 100 | 1420             | 6,7          | 7,5              | 5,5  | 12,7       | 550                  | 162,8       |
| CM 100/2050 T       | 3 x 400 V             | DN 100 | 1450             | 8,9          | 10               | 7,5  | 16         | 670                  | 239,1       |
| CM 100/2550 T       | 3 x 400 V             | DN 100 | 1450             | 13           | 15               | 11   | 24         | 670                  | 242,2       |
| CM 100/3290 T       | 3 x 400 V             | DN 100 | 1460             | 17           | 20               | 15   | 31         | 670                  | 336,6       |
| CM 100/3680 T       | 3 x 400 V             | DN 100 | 1460             | 21           | 25               | 18,5 | 38         | 670                  | 230         |
| CM 100/4100 T       | 3 x 400 V             | DN 100 | 1460             | 25           | 30               | 22   | 44         | 670                  | 330,3       |
| CM 125/1075 T       | 3 x 400 V             | DN 125 | 1400             | 5,8          | 5,5              | 4    | 10         | 620                  | 198,5       |
| CM 125/1270 T       | 3 x 400 V             | DN 125 | 1420             | 6,7          | 7,5              | 5,5  | 12,7       | 620                  | 199,9       |
| CM 125/1560 T       | 3 x 400 V             | DN 125 | 1450             | 8,9          | 10               | 7,5  | 16         | 620                  | 214,9       |
| CM 125/2100 T       | 3 x 400 V             | DN 125 | 1450             | 13           | 15               | 11   | 24         | 800                  | 294,4       |
| CM 125/2550 T       | 3 x 400 V             | DN 125 | 1460             | 17           | 20               | 15   | 31         | 800                  | 350,4       |
| CM 125/3200 T       | 3 x 400 V             | DN 125 | 1460             | 21           | 25               | 18,5 | 38         | 800                  | 379,2       |
| CM 125/3600 T       | 3 x 400 V             | DN 125 | 1460             | 25           | 30               | 22   | 44         | 800                  | 401,3       |
| CM 125/4022 T       | 3 x 400 V             | DN 125 | 1465             | 34           | 40               | 30   | 58         | 800                  | 350,9       |
| CM 150/955 T        | 3 x 400 V             | DN 150 | 1420             | 6,7          | 7,5              | 5,5  | 12,7       | 800                  | 265,5       |
| CM 150/1322 T       | 3 x 400 V             | DN 150 | 1450             | 9            | 10               | 7,5  | 16         | 800                  | 280,6       |
| CM 150/1600 T       | 3 x 400 V             | DN 150 | 1450             | 13           | 15               | 11   | 24         | 800                  | 293,2       |
| CM 150/1950 T       | 3 x 400 V             | DN 150 | 1460             | 17           | 20               | 15   | 31         | 800                  | 343,1       |
| CM 150/2200 T       | 3 x 400 V             | DN 150 | 1460             | 21           | 25               | 18,5 | 38         | 800                  | 357,1       |
| CM 150/2405 T       | 3 x 400 V             | DN 150 | 1460             | 25           | 30               | 22   | 44         | 800                  | 423,5       |

# CP

**Aplicaciones:** Bomba de circulación para instalaciones de calefacción, refrigeración y agua caliente sanitaria de tipo cerrado o a vaso abierto.

**Características constructivas:** Cuerpo bomba, soporte motor, tapa ventilador en fundición. turbina en fundición o tecnopolímero según modelos. Sello mecánico en carbón/cerámica.



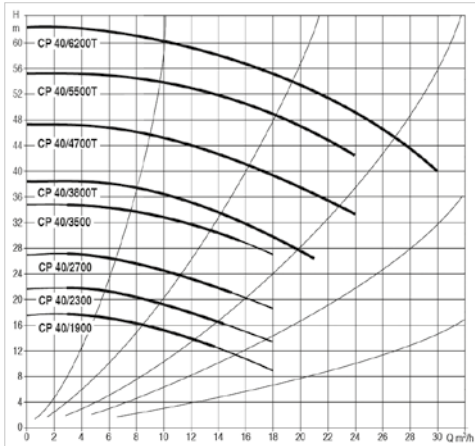
Eje Rotor en acero inoxidable. Motor IE3 de tipo asíncrono, cerrado y refrigerado a ventilación externa a 2 polos. CONSTRUCCIÓN SEGUN NORMATIVAS CEI. Campo de Prestaciones: e 6 a 420 m<sup>3</sup>/h hasta 102 mts. Líquido Bombeado: Limpio, sin sustancias sólidas, no viscoso, no cristalizado. Campo de Temperatura del líquido: de -15° C a + 120° C. Máxima Temperatura ambiente: + 40° C. Máxima Presión de Trabajo: 16 bar (1.600 Kpa). Grado de Protección: IP-44 caja bornes IP-55. -Grado de Aislamiento: F.

| Tipo<br>Type  | Alimentación<br>50 HZ | BRIDAS | Datos Eléctricos |              |                  |            | Entre<br>Ejes<br>mm. | Peso<br>Kg. |       |
|---------------|-----------------------|--------|------------------|--------------|------------------|------------|----------------------|-------------|-------|
|               |                       |        | r.p.m.<br>1/min. | P1 máx<br>kW | P2 NOMINAL<br>HP | Cons.<br>A |                      |             |       |
| CP 40/1900 T  | 3 x 230/400 V         | DN 40  | 2910             | 1,1          | 1                | 0,8        | 4,5 - 2,6            | 390         | 35,3  |
| CP 40/2300 T  | 3 x 230/400 V         | DN 40  | 2870             | 1,5          | 1,5              | 1,1        | 5,2 - 3              | 390         | 35,8  |
| CP 40/2700 T  | 3 x 230/400 V         | DN 40  | 2850             | 1,9          | 2                | 1,5        | 6,4 - 3,7            | 390         | 35,1  |
| CP 40/3500 T  | 3 x 230/400 V         | DN 40  | 2880             | 2,6          | 3                | 2,2        | 9 - 5,2              | 390         | 36,9  |
| CP 40/3800 T  | 3 x 230/400 V         | DN 40  | 2900             | 3,6          | 4                | 3          | 11 - 6,4             | 380         | 30    |
| CP 40/4700 T  | 3 x 230/400 V         | DN 40  | 2900             | 4,9          | 5,5              | 4          | 15,2 - 8,8           | 380         | 30    |
| CP 40/5500 T  | 3 x 400 V             | DN 40  | 2900             | 6,6          | 7,5              | 5,5        | 11,3                 | 425         | 39    |
| CP 40/6200 T  | 3 x 400 V             | DN 40  | 2900             | 9,2          | 10               | 7,5        | 15,8                 | 425         | 39    |
| CP 50/2200 T  | 3 x 230/400 V         | DN 50  | 2870             | 1,5          | 1,5              | 1,1        | 5 - 2,9              | 425         | 38,6  |
| CP 50/2600 T  | 3 x 230/400 V         | DN 50  | 2860             | 1,9          | 2                | 1,5        | 6,2 - 3,6            | 425         | 38,5  |
| CP 50/3100 T  | 3 x 230/400 V         | DN 50  | 2870             | 2,6          | 3                | 2,2        | 9 - 5,2              | 400         | 36    |
| CP 50/4100 T  | 3 x 400 V             | DN 50  | 2910             | 3,8          | 5,5              | 4          | 7,4                  | 400         | 36    |
| CP 50/4600 T  | 3 x 400 V             | DN 50  | 2900             | 6,6          | 7,5              | 5,5        | 11,3                 | 360         | 46    |
| CP 50/5100 T  | 3 x 400 V             | DN 50  | 2900             | 9,2          | 10               | 7,5        | 15,8                 | 360         | 46,1  |
| CP 50/5650 T  | 3 x 400 V             | DN 50  | 2900             | 9,2          | 10               | 7,5        | 15,8                 | 360         | 57,9  |
| CP 65/1470 T  | 3 x 230/400 V         | DN 65  | 2804             | 2            | 2                | 1,5        | 6,2 - 3,6            | 360         | 59,1  |
| CP 65/1900 T  | 3 x 230/400 V         | DN 65  | 2790             | 2,6          | 3                | 2,2        | 7,5 - 4,3            | 360         | 67,6  |
| CP 65/2280 T  | 3 x 400 V             | DN 65  | 2856             | 3,7          | 4                | 3          | 6,5                  | 360         | 80,6  |
| CP 65/2640 T  | 3 x 400 V             | DN 65  | 2844             | 4,9          | 5,5              | 4          | 8,6                  | 360         | 87,1  |
| CP 65/3400 T  | 3 x 400 V             | DN 65  | 2870             | 6,4          | 7,5              | 5,5        | 10,6                 | 360         | 120,1 |
| CP 65/4100 T  | 3 x 400 V             | DN 65  | 2906             | 8,7          | 10               | 7,5        | 14,8                 | 360         | 123,7 |
| CP 65/4700 T  | 3 x 400 V             | DN 65  | 2930             | 12           | 15               | 11         | 21 - 12,2            | 475         | 195,8 |
| CP 65/5500 T  | 3 x 400 V             | DN 65  | 2920             | 17           | 20               | 15         | 28,8                 | 475         | 213,8 |
| CP 65/6150 T  | 3 x 400 V             | DN 65  | 2946             | 21           | 25               | 18,5       | 34,7                 | 475         | 230,9 |
| CP 65/7350 T  | 3 x 400 V             | DN 65  | 2960             | 24,5         | 30               | 22         | 40,3                 | 475         | 270,6 |
| CP 65/9250 T  | 3 x 400 V             | DN 65  | 2955             | 33           | 40               | 30         | 54,1                 | 475         | 362,2 |
| CP 80/1400 T  | 3 x 230/400 V         | DN 80  | 2910             | 2,5          | 3                | 2,2        | 7,7 - 4,5            | 360         | 81,9  |
| CP 80/1700 T  | 3 x 400 V             | DN 80  | 2845             | 3,7          | 4                | 3          | 6,8                  | 360         | 85,7  |
| CP 80/2050 T  | 3 x 400 V             | DN 80  | 2840             | 5,3          | 5,5              | 4          | 7,8                  | 360         | 89,8  |
| CP 80/2400 T  | 3 x 400 V             | DN 80  | 2870             | 6,4          | 7,5              | 5,5        | 10,8                 | 360         | 124,4 |
| CP 80/2770 T  | 3 x 400 V             | DN 80  | 2913             | 8,7          | 10               | 7,5        | 14                   | 440         | 126,8 |
| CP 80/3250 T  | 3 x 400 V             | DN 80  | 2930             | 12           | 15               | 11         | 21 - 12,2            | 440         | 84,5  |
| CP 80/4000 T  | 3 x 400 V             | DN 80  | 2920             | 17           | 20               | 15         | 28,8                 | 440         | 89,6  |
| CP 80/5150 T  | 3 x 400 V             | DN 80  | 2946             | 21           | 25               | 18,5       | 34,7                 | 500         | 128   |
| CP 80/5650 T  | 3 x 400 V             | DN 80  | 2960             | 24           | 30               | 22         | 39,3                 | 500         | 197,3 |
| CP 80/6850 T  | 3 x 400 V             | DN 80  | 2955             | 33           | 40               | 30         | 54,1                 | 500         | 243   |
| CP 80/8600 T  | 3 x 400 V             | DN 80  | 2945             | 42           | 50               | 37         | 70                   | 620         | 180,4 |
| CP 80/9600 T  | 3 x 400 V             | DN 80  | 2970             | 49           | 60               | 45         | 78,2                 | 620         | 286,6 |
| CP 80/10200 T | 3 x 400 V             | DN 80  | 2970             | 59           | 75               | 55         | 95,9                 | 620         | 440,1 |
| CP 100/1600 T | 3 x 400 V             | DN 100 | 2844             | 4,9          | 5,5              | 4          | 8,6                  | 500         | 93,1  |
| CP 100/1950 T | 3 x 400 V             | DN 100 | 2870             | 6,4          | 7,5              | 5,5        | 10,6                 | 500         | 105,1 |
| CP 100/2350 T | 3 x 400 V             | DN 100 | 2906             | 8,7          | 10               | 7,5        | 14,8                 | 500         | 97,5  |
| CP 100/2400 T | 3 x 400 V             | DN 100 | 2930             | 12           | 15               | 11         | 21 - 12,2            | 550         | 106,6 |
| CP 100/3050 T | 3 x 400 V             | DN 100 | 2920             | 17           | 20               | 15         | 28,8                 | 550         | 188,1 |
| CP 100/3550 T | 3 x 400 V             | DN 100 | 2946             | 21           | 25               | 18,5       | 34,7                 | 550         | 218,3 |
| CP 100/3850 T | 3 x 400 V             | DN 100 | 2960             | 24           | 30               | 22         | 39,3                 | 550         | 189,8 |
| CP 100/4800 T | 3 x 400 V             | DN 100 | 2955             | 33           | 40               | 30         | 54,1                 | 550         | 200,7 |
| CP 100/5600 T | 3 x 400 V             | DN 100 | 2945             | 42           | 50               | 37         | 70                   | 550         | 243,1 |
| CP 100/6300 T | 3 x 400 V             | DN 100 | 2970             | 49           | 60               | 45         | 78,2                 | 550         | 276   |
| CP 100/8300 T | 3 x 400 V             | DN 100 | 2970             | 59           | 75               | 55         | 95,9                 | 670         | 178,6 |
| CP 125/4750 T | 3 x 400 V             | DN 125 | 2945             | 42           | 50               | 37         | 70                   | 620         | 268,8 |
| CP 125/5300 T | 3 x 400 V             | DN 125 | 2970             | 49           | 60               | 45         | 78,2                 | 620         | 280,9 |
| CP 125/5800 T | 3 x 400 V             | DN 125 | 2970             | 59           | 75               | 55         | 95,9                 | 620         | 288,9 |

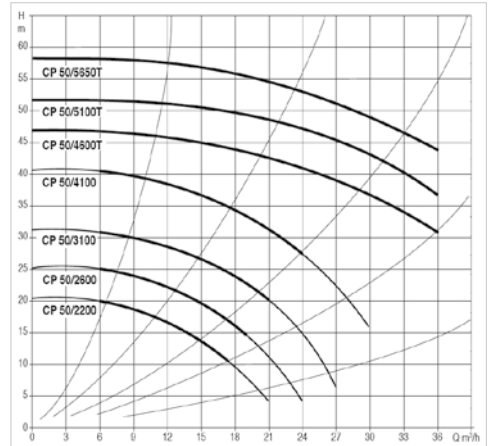


# CP

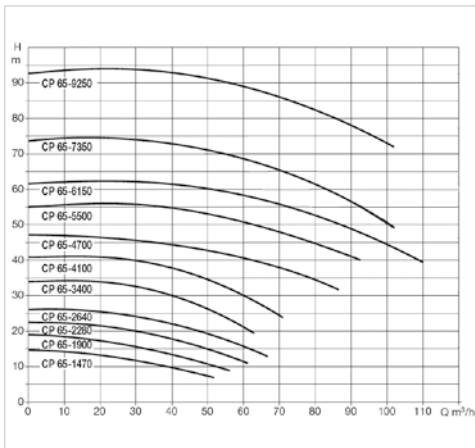
## CP - 40



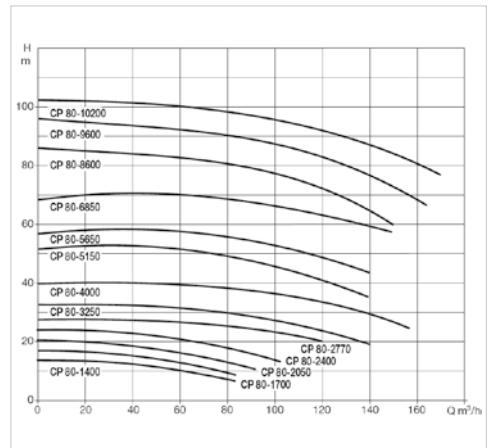
## CP - 50



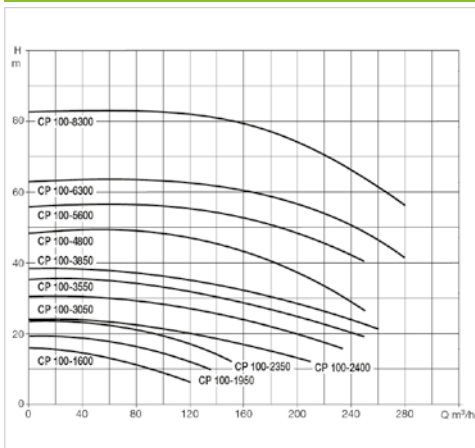
## CP - 65



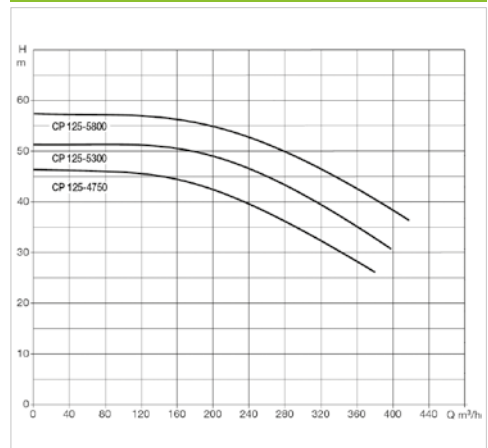
## CP - 80



## CP - 100



## CP - 125





# OTROS USOS Y ACCESORIOS

| BOMBAS PARA USOS VARIOS |                               | ACCESORIOS DE INSTALACIÓN |   |
|-------------------------|-------------------------------|---------------------------|---|
| 194                     | BE                            | 199                       | FILTROS DE CARTUCHO                       |
| 195                     | DRILL<br>KIT BE-25 M CONTADOR | 200                       | EVOLUTION                                 |
| 196                     | MD75                          | 201                       | AIRMAX                                    |
| 197                     | GPS - GPC                     | 202                       | ACCESORIOS                                |
| 198                     | HCM                           | 204                       | PRESSCONTROL<br>MASCONTROL<br>CONTROLPRES |

# BE

autoaspirante  
self-priming



### Aplicaciones:

**SERIE BE:** Electrobomba autoaspirante de anillo líquido. Equipadas con asa, rácores para manguera y cable con clavija de enchufe por su concepción de bomba portátil. **AUTOASPIRANTE HASTA 8 METROS.**

### Características constructivas:

Cuerpo bomba, rácores y turbina en bronce según Norma UNI 5075 inoxidable para evitar bloqueos. Eje en acero inoxidable 18/8 y cierre mecánico "Corteco" con muelle de acero inoxidable y elastómero especial.

**Temperatura máxima del agua: 35° C**

Temperatura máxima ambiente: 35° C

Presión máxima admitida: 6 Kg/cm<sup>2</sup>

### Motor:

Cerrado de ventilación externa, de servicio continuo y grado de protección IP-44.

**LA BOMBA ROVER 20 CE PUEDEN SER CON IP-55 PARA TRABAJAR CON GAS-OIL. TODAS LAS BOMBAS SON REVERSIBLES.**



### Applications:

A liquid ring self-driving pump. Fitted with a handle, connections for hose and cable with plug for its portable facility. The AC versions are with reversible flow with a turn direction switch. **SELF-PRIMMING UP TO 8 METRES.**

### Construction:

Pump body, connectors and impeller in stainless bronze according to UNI 5075 to prevent blockage. Shaft in 18/8 stainless steel and "Corteco" mechanical seal with stainless steel spring and special elastomer.

**Maximum water temperature: 35° C.**

Maximum ambient temperature: 35° C.

Maximum pressure admitted: 6 Kg/cm<sup>2</sup>

### Motor:

Sealed with external ventilation, continuous service and IP-44 protection.

**THE ROVER 20 CE PUMP MAY BE WITH IP-55 PROTECTION, FOR WORKING WITH DIESEL.**

| Tipo<br>Type | Cond.<br>µF | r.p.m. | Voltaje<br>Voltage | Potencia<br>HP KW |      | Caudal m <sup>3</sup> /h / Flow m <sup>3</sup> /h |      |      |      |     |     |     |     | Ø<br>Asp.<br>Imp. |
|--------------|-------------|--------|--------------------|-------------------|------|---|------|------|------|-----|-----|-----|-----|-------------------|
|              |             |        |                    |                   |      | 0   | 0,5  | 1    | 1,5  | 2,4 | 3,6 | 4,5 | 5   |                   |
|              |             |        |                    |                   |      | Altura m.c.a. / Height w.c.m.                     |      |      |      |     |     |     |     |                   |
| ROVER 20 CE  | 10          | 2.900  | 230                | 0,5               | 0,37 | 25  | 17   | 10   | 2,5  |     |     |     |     | 20                |
| BE 25-M      | 14          | 1.450  |                    | 0,6               | 0,45 | 12  | 9,5  | 7    | 4,3  | 0,1 |     |     |     | 25                |
| ROVER 30 CE  | 25          | 2.900  | III 400            | 0,9               | 0,66 | 15  | 13   | 11,5 | 9,5  | 7   | 3   | 0,1 |     | 30                |
| BE 30-T      | -           | 1.450  |                    |                   |      |   |      |      |      |     |     |     |     |                   |
| ROVER 40 CE  | 32          | 2.900  | II 230             | 1                 | 0,75 | 15  | 13,5 | 12   | 10,5 | 7,5 | 4,7 | 2   | 0,4 | 40                |
| BE 40-T      | -           | 1.450  | III 400            |                   |      |   |      |      |      |     |     |     |     |                   |

| Tipo<br>Type | r.p.m. | Voltaje<br>Voltage<br>C.C. | Potencia<br>W | Caudal m <sup>3</sup> /h / Flow m <sup>3</sup> /h |     |     |     |      |     |      | Ø<br>Asp.<br>Imp. |
|--------------|--------|----------------------------|---------------|---|-----|-----|-----|------|-----|------|-------------------|
|              |        |                            |               | 0,3   | 0,6 | 0,9 | 1,1 | 1,25 | 1,5 | 1,75 |                   |
|              |        |                            |               | Altura m.c.a. / Height w.c.m.                     |     |     |     |      |     |      |                   |
| MARINA 20-12 | 3.200  | 12                         | 480           | 19  | 17  | 12  | 9   | 5    | 3   | 2    | 20                |
| MARINA 20-24 |        | 24                         |               |   |     |     |     |      |     |      |                   |

# DRILL

bomba para taladro  
*drill pump*



### Aplicaciones:

Electrobomba autoaspirante de anillo líquido adecuada para el trasiego de: **VINO, AGUA DE MAR, ACEITE, GASOIL, etc. APTA PARA ADAPTAR A TALADRO.**

### Características constructivas:

Cuerpo bomba, racores y turbina en bronce según norma UNI 5075, inoxidable para evitar bloqueos. Eje en acero inoxidable 18/8 y cierre mecánico " Corteco "



con muelle de acero inoxidable y elastómero especial.

**MAXIMA TEMP. AMBIENTE:** 40°C.  
**MAXIMA TEMP. LIQUIDO BOMBEADO:** 60°C.  
**PRESION MAXIMA ADMITIDA:** 6 bar.



### Applications:

A self-drive liquid ring electropump suitable for transferring WINE, SEA WATER, OIL, DIESEL, etc.

### Constructive characteristics:

Pump body, connectors and impeller in bronze according to UNI 5075, stainless steel to prevent blockage. Shaft in 18/8 stainless steel and "Corteco" mechanical seal with stainless steel spring and special elastomer.

**MAXIMUM AMBIENT TEMPERATURE: 40° C**  
**MAXIMUM TEMPERATURE PUMPED LIQUID: 60° C**  
**MAXIMUM PRESSURE ADMITTED: 6 bar**

| Tipo<br>Type    | Watts          |                | lts./h. max    |                | Alt. max. m.c.a. |                | Asp. vert. m.c.a. |                | Asp. horiz. m.c.a. |                | Rumorosidad db |                | Ø<br>Mang.<br>mm. |
|-----------------|----------------|----------------|----------------|----------------|------------------|----------------|-------------------|----------------|--------------------|----------------|----------------|----------------|-------------------|
|                 | 1500<br>r.p.m. | 3000<br>r.p.m. | 1500<br>r.p.m. | 3000<br>r.p.m. | 1500<br>r.p.m.   | 3000<br>r.p.m. | 1500<br>r.p.m.    | 3000<br>r.p.m. | 1500<br>r.p.m.     | 3000<br>r.p.m. | 1500<br>r.p.m. | 3000<br>r.p.m. |                   |
| <b>DRILL 20</b> | 220            | 350            | 720            | 2100           | 9                | 30             | 2                 | 6              | 10                 | 40             | 71             | 75             | 20                |

# KIT BE-25 M CONTADOR



### Aplicaciones:

Este moderno y actual kit es la solución más adecuada para medir líquidos de uso privado como gasoil, vino, agua dulce y salada, soluciones químicas, leche, etc., cuando se hace necesario garantizar caudales relativamente elevados a presiones relativamente bajas.

### Características constructivas:

Kit compuesto por: bomba BE 25-M, Kit impulsión apto para combustibles y líquidos alimentarios, contador de polipropileno con entrada y salida en latón, con contador total y parcial. Presión máxima 3 bar, bancada soporte, filtro de aspiración.

**PRECISION: ±5%**

**KIT VALIDO SOLO PARA USO PRIVADO**



### Applications:

This modern kit is the best solution for measuring liquids in private use, such as diesel, wine, soft and salt water, chemical solutions, milk, etc...when it is necessary to guarantee relatively high flows at relatively low pressures.

### Constructive characteristics:

A kit comprising: BE 25-M pump, drive kit suitable for fuels and food liquids, polypropylene counter with brass inlet and outlet, total and partial counter. Maximum pressure 3 bar. Support bench y suction filter.

**PRECISION: ±5%**

**KIT ONLY SUITABLE FOR PRIVATE USE.**



| Tipo<br>Type              | Tensión<br>Tension | Potencia<br>Power | m³/h | Dimensiones<br>Dimensions |
|---------------------------|--------------------|-------------------|------|---------------------------|
| <b>KIT BE-25-Contador</b> | II 230             | 0,5 CV.           | 2,7  | 350 x 200 x 480           |

# MD75

bombas autoaspirantes para gas-oil  
self-priming pumps for gas-oil



### DIESEL KIT

Compuesto por:  
5 metros de manguera hidrocarburos,  
pistola graduación caudal (abrir-cerrar)  
filtro aspiración



### PISTOLA AUTOMÁTICA

Cierra el paso del líquido  
cuando el depósito está lleno.  
Caudal máximo: 3.600 lts./h.



### Aplicaciones:

Electrobomba autoaspirante de anillo líquido, especial para trasiego de gas-oil. Autoaspirante hasta 4 metros, en aspiraciones horizontales de gran longitud es importante instalar una tubería de diámetro superior al de entrada de la bomba.

### Características constructivas:

Cuerpo y soporte en fundición gris, con tratamiento anticorrosivo incluso en su superficie interna, turbinas en bronce y cierre mecánico resistente al hidrocarburo y eje en acero inoxidable.

### Motor:

Asíncrono, cerrado y de ventilación externa. Protección termo-amperimétrica incorporada y condensador fijo.

**Grado de protección IP-55**, según normativa vigente para trasiego de gas-oil.

Aislamiento: clase F.

Temperatura máxima del agua: + 50° C

Temperatura máxima ambiente: + 40° C



### Applications:

A liquid ring self-driving pump, special for the transfer of diesel fuel. Self-driving up to 4 metres, in long horizontal suction, it is important to install a pipe with a diameter larger than that of the pump inlet.

### Construction:

Body and support in grey cast iron with rustproof treatment even on the internal surface, impellers in bronze, mechanical seal resistant to hydrocarbons and shaft in stainless steel.

### Motor:

Sealed asynchronous with external ventilation. Built-in thermo-amperimetric protection and fixed capacitor.

**IP-55 protection**, according with the regulations for diesel transfer.

Insulation: class F.

Maximum water temperature: + 50° C.

Maximum ambient temperature: + 40° C.

| Tipo<br>Type                  | Cond.<br>µF | r.p.m. | A<br>II<br>230 V | Potencia |      | Caudal m <sup>3</sup> /h / Flow m <sup>3</sup> /h |     |     |     |     |     |     | Ø<br>Asp.<br>Imp. |
|-------------------------------|-------------|--------|------------------|----------|------|---|-----|-----|-----|-----|-----|-----|-------------------|
|                               |             |        |                  | HP       | KW   | 0   | 0,3 | 0,6 | 1,2 | 1,8 | 2,4 | 2,7 |                   |
| Altura m.c.a. / Height w.c.m. |             |        |                  |          |      |   |     |     |     |     |     |     |                   |
| <b>MD-75</b>                  | 16          | 2.900  | 4,2              | 0,8      | 0,59 | 51  | 46  | 41  | 32  | 22  | 12  | 6   | 1"                |

# GPS - GPC

equipos de presión para gas-oil  
*pressure equipment for gas-oil*



### Aplicaciones:

Equipos especialmente diseñados para el suministro de gas-oil a calderas de calefacción. En aspiraciones horizontales de gran longitud, instalar tubería de diámetro superior al de la aspiración de la bomba.

### Modelo COMPACTO "GPC"

Compuesto por:  
Electrobomba MD 75, vaso exp. 5 Lts. hidrocarburos, presostato trabajo y seguridad con rearme manual incorporado, rúcor de 5 vías, manómetro, válvula de retención en aspiración, caja con pilotos de señalización, interruptor puesta en marcha, válvula reductora de caudal y bancada general en chapa doblada.

### Modelo SIMPLE "GPS"

Compuesto por:  
Electrobomba MD 75, vaso exp. 5 Lts. hidrocarburos, presostato de trabajo, rúcor 5 vías y manómetro



### Aplicaciones:

Units specially designed for supplying diesel fuel to the burner. In long horizontal suction, install a pipe with a diameter larger than that of the pump inlet.

### GPC COMPACT Model

Comprising:  
MD 75 electropump, 5 lts. hydrocarbon expansion tank, working pressure gauge, safety pressure gauge, 5 watt connector, manometer, retention valve in suction, box with warning lights, starting switch, flow reducer valve and general bench in folded plate.

### GPS SIMPLE Model

Comprising:  
MD 75 electropump, 5 Lts. hydrocarbon expansion tank, working pressure gauge, 5 watt connector and manometer.

| Tipo / Type |       | HP  | Voltaje<br>Voltage | "A" | Ø<br>ASP/IMP | Peso<br>Kg. | Caudal<br>l/h. | Presión<br>bar |
|-------------|-------|-----|--------------------|-----|--------------|-------------|----------------|----------------|
| Simple      | Doble |     |                    |     |              |             |                |                |
| GPS         |       | 0,8 | II 230V            | 4,2 | 1"           | 8           | 600            | 1-5            |
| GPC         |       | 0,8 | II 230V            | 4,2 | 1"           | 12          | 600            | 1-5            |

# HCM

bombas de arrastre magnético  
magnetic drive pumps



### Aplicaciones:

Bombas magnéticas monobloc desprovistas de sello mecánico, lo que las hace muy adecuada para la elevación de líquidos agresivos tales como: **ácidos débiles, líquidos corrosivos**. Muy utilizadas para aguas saladas, laboratorios, tratamientos de superficies, soluciones de revelado fotográfico, etc.

### Características constructivas:

El principio de funcionamiento de las bombas de arrastre magnético es el de que la transmisión se efectúa a través de la atracción de dos imanes concéntricos y compensados, lo que asegura a través del polipropileno un aislamiento total del líquido a bombear con el motor y el exterior. Todas las partes en contacto con el líquido son de polipropileno excepto los casquillos que son de Rulón-Grafito y las tóricas en Vitón. Eje y arandelas en cerámica.

### Motor:

Asíncrono y de ventilación externa, a 2.850 r.p.m. protección IP-44, aislamiento clase F.

**MAXIMA TEMP. AMBIENTE: 40° C.**

**MAXIMA TEMP. LIQUIDO BOMBEADO: 80° C.**

**VISCOSIDAD MAXIMA: 30 CPS.**

**DENSIDAD MAXIMA: 1,3**

**No debe trabajar en seco y no recomendable para líquidos con partículas en suspensión**



### Applications:

Single block magnetic pumps without a mechanical seal, which makes them highly suitable for raising aggressive liquids such as: **weak acids, corrosive liquids**. Used widely for salt waters, laboratories, surface treatments, photographic developing solutions, etc.

### Constructive characteristics:

The working principle of the magnetic drag pumps is that the transmission is developed by the attraction of two concentric, compensated magnets, which, through polypropylene, ensures full insulation of the liquid to be pumped from the motor and the exterior. All parts in contact with the liquid are in polypropylene, excepts for the bushings, which are in Rulon-Graphite and Viton o-rings. Shaft and washers in ceramic.

### Motor:

Asynchronous with external ventilation at 2,850 rpm, IP-44 protection, class F insulation.

**MAX. AMBIENT TEMPERATURE: 40° C**

**MAX. TEMP. PUMPED LIQUID: 80° C**

**MAXIMUM VISCOSITY: 30 CPS**

**MAXIMUM DENSITY: 1.3**

**Not for dry working and not recommendable for liquids with suspended particles**

| Tipo<br>Type   | Voltaje<br>Voltage | Watt. | Altura m.c.a. / Height w.c.m. |     |     |     |     | Ø    |      |
|----------------|--------------------|-------|-------------------------------|-----|-----|-----|-----|------|------|
|                |                    |       | 0                             | 2   | 4   | 6   | 8   | ASP. | IMP. |
|                |                    |       | Caudal m³/h / Flow m³/h       |     |     |     |     |      |      |
| <b>HCM 75</b>  | II 230             | 100   | 3,9                           | 3,2 | 2,1 | 0,2 |     | 3/4" | 3/4" |
| <b>HCM 100</b> | II 230             | 150   | 5,4                           | 4,8 | 4,4 | 3,6 | 2,4 | 1"   | 1"   |
| <b>HCM 130</b> | II 230             | 250   | 6,5                           | 5,9 | 5,1 | 4   | 2   | 1"   | 1"   |



# FILTROS DE CARTUCHO



LOS FILTROS DE CARTUCHO SON GENERALMENTE UTILIZADOS EN EL MARCO DOMÉSTICO E INDUSTRIAL PARA LA ELIMINACIÓN DE PARTÍCULAS EN SUSPENSIÓN Y DE TODOS AQUELLOS SABORES, DEBIDOS A LA EXCESIVA CLORACIÓN DEL AGUA.

CARTRIDGE FILTERS ARE GENERALLY USED IN DOMESTIC AND INDUSTRIAL CIRCUMSTANCES TO ELIMINATE PARTICLES IN SUSPENSION AND ALL UNDESIRED TASTES CAUSED BY EXCESSIVE CHLORINE IN THE WATER.

| PORTACARTUCHOS | LONGITUD | CONEXIONES |
|----------------|----------|------------|
|                | 10"      | 1"         |



## Portacartuchos:

Están constituidos por materiales atóxicos e idóneos para uso alimentario. Rácor de entrada, salida y purgador en latón. Carcasa transparente para verificar el estado del cartucho.

## Cartuchos filtrantes:

Existen diversos tipo de cartuchos, según la necesidad que se requiere.

- 1. Polipropileno bobinado:** cartucho apropiado para uso alimentario, cuya función básica es la de suprimir las partículas en suspensión como arena, óxido, etc.
- 2. Malla lavable:** cartucho apropiado para uso alimentario, cuya función básica es la de suprimir las partículas en suspensión como arena, óxido, etc. Su ventaja principal estriba en que es lavable.
- 3. Carbón activo:** cartucho apropiado para uso alimentario, cuya función básica es la de depurar y declarar las sustancias químicas disueltas en el agua, evitando de esta manera, los olores y sabores producidos por estas.
- 4. Polifosfatos:** el agua en contacto con los polifosfatos sufre un tratamiento que elimina los nefastos efectos de la cal. Es aconsejable su instalación a la salida de descalcificadores.



## Cartridge holder:

They are made in atoxic materials ideal for use with foodstuffs. Inlet, outlet and bleeder connections in brass. Transparent housing to check the state of the cartridge.

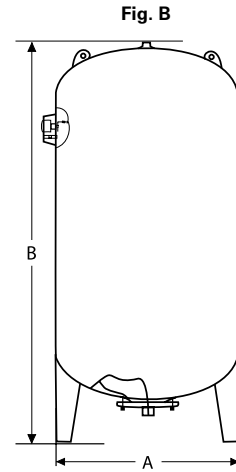
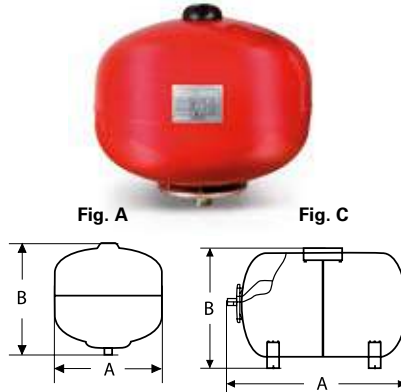
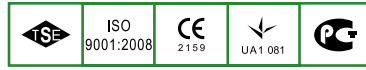
## Filtering cartridges:

There are several types of cartridges, depending on the required needs.

- 1. Reeled polypropylene:** a cartridge suitable for use with foodstuffs, the basic function of which is to eliminate the particles in suspension, such as sand, rust, etc.
- 2. Washable mesh:** a cartridge suitable for use with foodstuffs, the basic function of which is to eliminate particles in suspension, such as sand, rust, etc. The main advantage lies in the fact that it is washable.
- 3. Active carbon:** a cartridge suitable for use with foodstuffs, the basic function of which is to purify and dechlorinate the chemical substances dissolved in the water, thus preventing the smells and tastes caused by them.
- 4. Polyphosphates:** the water in contact with the polyphosphates undergoes a treatment that eliminates the harmful effects of lime. It should be installed on the outlet of decalcifiers.

| TIPO / TYPE                 | CONEXIONES<br>CONEXIONS | FILTRACIÓN<br>FILTRATION | CAUDAL MÁXIMO<br>MAXIMUM FLOW | PRESIÓN MÁXIMA<br>MAXIMUM PRESSURE | TEMPERATURA MÁX.<br>MAX. TEMPERATURE |
|-----------------------------|-------------------------|--------------------------|-------------------------------|------------------------------------|--------------------------------------|
| POLIPROPILENO BOBINADO      | 1"                      | 50 micras                | 2,2 m³/h                      | 8 Kg/cm²                           | 45° C                                |
| MALLA LAVABLE               | 1"                      | 60 micras                | 2,8 m³/h                      | 8 Kg/cm²                           | 45° C                                |
| CARBON ACTIVO + P. BOBINADO | 1"                      | 10 micras                | 2,8 m³/h                      | 8 Kg/cm²                           | 45° C                                |
| POLIFOSFATOS                | 1"                      | -                        | 2,8 m³/h                      | 8 Kg/cm²                           | 45° C                                |

# EVOLUTION



Depósitos de membrana fabricada en EPDM, atóxica e intercambiable, especial para uso alimentario y circuitos de calefacción. Estan construidos en chapa de acero embutido con acabado fosfatado pintado y secado.

**Temperatura máxima de servicio: de -5°C hasta 100°C.** Los acumuladores de más de 100 litros (incluido) se suministran de serie con manómetro para fácil lectura de la presión. **Bajo demanda pueden suministrarse para presiones de 16 bar o de 25 bar.**

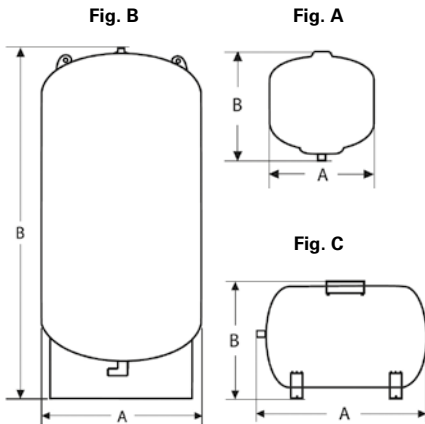


Membrane tanks manufactured with EPDM membrane, non-toxic and interchangeable, especially for food use and hot water circuits. They are constructed of pressed steel, painted with exterior trim drying and phosphate.

**Maximum temperature: -5°C to +100°C.** All tank with more than 100 liters (included) are supplied, as standard, with pressure gauge for easy pressure reading. **On request can be supplied for pressures of 16 bar or 25 bar.**

| Acumuladores<br>Accumulators | Capacidad<br>Capacity | Presión Máxima<br>Max. pressure bar | Dimensiones / Dimensions |       | Salida Ø<br>Outlet Ø | Figura<br>Figure | Peso<br>Weight | Volumen<br>Volume    |
|------------------------------|-----------------------|-------------------------------------|--------------------------|-------|----------------------|------------------|----------------|----------------------|
|                              |                       |                                     | A mm.                    | B mm. |                      |                  |                |                      |
| EVO 8 EXP                    | 8 lts                 | 10 bar                              | 220                      | 320   | 1"                   | A                | 2,9 Kg.        | 0,016 m <sup>3</sup> |
| EVO 12 EXP                   | 12 lts                |                                     | 220                      | 380   | 1"                   | A                | 3,8 Kg.        | 0,018 m <sup>3</sup> |
| EVO 19 EXP                   | 19 lts                |                                     | 280                      | 430   | 1"                   | A                | 4 Kg.          | 0,034 m <sup>3</sup> |
| EVO 24 EXP                   | 24 lts                |                                     | 360                      | 325   | 1"                   | A                | 4,5 Kg.        | 0,037 m <sup>3</sup> |
| EVO 35 EXP                   | 35 lts                |                                     | 380                      | 470   | 1"                   | A                | 7,5 Kg.        | 0,068 m <sup>3</sup> |
| EVO 50 EXP                   | 50 lts                |                                     | 380                      | 560   | 1"                   | A                | 8,5 Kg.        | 0,081 m <sup>3</sup> |
| EVO 50-16 EXP                | 50 lts                | 16 bar                              | 380                      | 580   | 1"                   | A                | 14 Kg.         | 0,084 m <sup>3</sup> |
| EVO 50 VER                   | 50 lts                | 10 bar                              | 380                      | 750   | 1"                   | B                | 11 Kg.         | 0,108 m <sup>3</sup> |
| EVO 80 VER                   | 80 lts                |                                     | 430                      | 960   | 1"                   | B                | 17 Kg.         | 0,161 m <sup>3</sup> |
| EVO 100 VER                  | 100 lts               |                                     | 460                      | 990   | 1"                   | B                | 18 Kg.         | 0,209 m <sup>3</sup> |
| EVO 150 VER                  | 150 lts               |                                     | 500                      | 1100  | 1"                   | B                | 29 Kg.         | 0,280 m <sup>3</sup> |
| EVO 200 VER                  | 200 lts               |                                     | 590                      | 1120  | 1 1/4"               | B                | 38 Kg.         | 0,390 m <sup>3</sup> |
| EVO 300 VER                  | 300 lts               |                                     | 640                      | 1230  | 1 1/4"               | B                | 45 Kg.         | 0,504 m <sup>3</sup> |
| EVO 500 VER                  | 500 lts               |                                     | 750                      | 1550  | 1 1/4"               | B                | 75 Kg.         | 0,872 m <sup>3</sup> |
| EVO 750 VER                  | 750 lts               |                                     | 750                      | 1950  | 2"                   | B                | 110 Kg.        | 1,248 m <sup>3</sup> |
| EVO 1000 VER                 | 1000 lts              |                                     | 800                      | 2180  | 2"                   | B                | 155 Kg.        | 1,408 m <sup>3</sup> |
| EVO 1500 VER                 | 1500 lts              |                                     | 960                      | 2380  | 2"                   | B                | 230 Kg.        | 2,212 m <sup>3</sup> |
| EVO 24 HOR                   | 24 lts                |                                     | 470                      | 280   | 1"                   | C                | 4 Kg.          | 0,037 m <sup>3</sup> |
| EVO 50 HOR                   | 50 lts                |                                     | 620                      | 380   | 1"                   | C                | 10,5 Kg.       | 0,084 m <sup>3</sup> |
| EVO 80 HOR                   | 80 lts                |                                     | 720                      | 430   | 1"                   | C                | 17 Kg.         | 0,133 m <sup>3</sup> |
| EVO 100 HOR                  | 100 lts               |                                     | 800                      | 460   | 1"                   | C                | 23 Kg.         | 0,169 m <sup>3</sup> |

# AIRMAX



Depósitos de membrana fija para agua potable con certificación para uso alimentario.

Disponen de membrana de diafragma de geometría variable y alto rendimiento según DIN 4807.

Incluye recubrimiento interno rígido en polipropileno que evita el contacto de la membrana con la superficie metálica del depósito.

Conector con la zona de agua en acero inoxidable.

Depósitos certificados según norma PED 2014/68/EU, EN 13831, UPC, NSF58, NSF61, ACS y KC.

**Temperatura máxima de servicio: de -10°C hasta 100°C.**



*Fixed membrane tanks for drinking water with food grade certification.*

*Includes a diaphragm membrane of variable geometry and high performance according to DIN 4807.*

*Also includes a rigid internal polypropylene coating that avoids the contact of the membrane with the metal surface of the tank.*

*Connector with the water area in stainless steel.*

*Certified tanks according to PED 2014/68 / EU, EN 13831, UPC, NSF58, NSF61, ACS and KC standards.*

**Maximum temperature: -10°C to +100°C.**

| Acumuladores<br><i>Accumulators</i> | Capacidad<br><i>Capacity</i> | Presión Máxima<br><i>Max. pressure bar</i> | Dimensiones / <i>Dimensions</i> |       | Salida Ø<br><i>Outlet Ø</i> | Figura<br><i>Figure</i> | Peso<br><i>Weight</i> | Volumen<br><i>Volume</i> |
|-------------------------------------|------------------------------|--|---------------------------------|-------|-----------------------------|-------------------------|-----------------------|--------------------------|
|                                     |                              |  | A mm.                           | B mm. |                             |                         |                       |                          |
| <b>AIRMAX 3 EXP</b>                 | 3 lts                        | 10 bar                                     | 140                             | 425   | 1"                          | A                       | 4,1 Kgs               | 0,016 m <sup>3</sup>     |
| <b>AIRMAX 8 EXP</b>                 | 8 lts                        |  | 203                             | 425   | 1"                          | A                       | 1,9 Kgs               | 0,018 m <sup>3</sup>     |
| <b>AIRMAX 12 EXP</b>                | 12 lts                       |  | 229                             | 425   | 1"                          | A                       | 2,9 Kgs               | 0,034 m <sup>3</sup>     |
| <b>AIRMAX 18 EXP</b>                | 18 lts                       |  | 280                             | 425   | 1"                          | A                       | 3,3 Kgs               | 0,037 m <sup>3</sup>     |
| <b>AIRMAX 24 EXP</b>                | 24 lts                       |  | 290                             | 425   | 1"                          | A                       | 3,9 Kgs               | 0,068 m <sup>3</sup>     |
| <b>AIRMAX 40 EXP</b>                | 40 lts                       |  | 290                             | 425   | 1"                          | A                       | 5,9 Kgs               | 0,081 m <sup>3</sup>     |
| <b>AIRMAX 60 EXP</b>                | 60 lts                       |  | 390                             | 592   | 1"                          | A                       | 9,7 Kgs               | 0,084 m <sup>3</sup>     |
| <b>AIRMAX 60 VER</b>                | 60 lts                       |  | 390                             | 592   | 1"                          | B                       | 9,7 Kgs               | 0,108 m <sup>3</sup>     |
| <b>AIRMAX 80 VER</b>                | 80 lts                       |  | 390                             | 770   | 1"                          | B                       | 13,1 Kgs              | 0,161 m <sup>3</sup>     |
| <b>AIRMAX 100 VER</b>               | 100 lts                      |  | 430                             | 765   | 1"                          | B                       | 13,3 Kgs              | 0,209 m <sup>3</sup>     |
| <b>AIRMAX 160 VER</b>               | 160 lts                      |  | 550                             | 925   | 1 1/4"                      | B                       | 24,5 Kgs              | 0,280 m <sup>3</sup>     |
| <b>AIRMAX 200 VER</b>               | 200 lts                      |  | 550                             | 1.060 | 1 1/4"                      | B                       | 27,6 Kgs              | 0,390 m <sup>3</sup>     |
| <b>AIRMAX 300 VER</b>               | 300 lts                      |  | 550                             | 1.457 | 1 1/4"                      | B                       | 41,1 Kgs              | 0,504 m <sup>3</sup>     |
| <b>AIRMAX 450 VER</b>               | 450 lts                      |  | 650                             | 1.410 | 1 1/4"                      | B                       | 56,5 Kgs              | 0,872 m <sup>3</sup>     |
| <b>AIRMAX 24 HOR</b>                | 24 lts                       |  | 415                             | 326   | 1"                          | C                       | 4,8 Kgs               | 1,248 m <sup>3</sup>     |
| <b>AIRMAX 60 HOR</b>                | 60 lts                       |  | 536                             | 428   | 1"                          | C                       | 9,8 Kgs               | 1,408 m <sup>3</sup>     |
| <b>AIRMAX 80 HOR</b>                | 80 lts                       |  | 714                             | 428   | 1"                          | C                       | 13,1 Kgs              | 2,212 m <sup>3</sup>     |
| <b>AIRMAX 100 HOR</b>               | 100 lts                      | 690  | 450                             | 1"    | C                           | 13,6 Kgs                | 0,037 m <sup>3</sup>  |                          |

# ACCESORIOS

|                                  |      |    |        |        |    |        |    |    |
|----------------------------------|------|----|--------|--------|----|--------|----|----|
| VALVULAS DE PIE / Foot Valve     |      |    |        |        |    |        |    |    |
| VAL. RETENCIÓN / Retention Valve | 3/4" | 1" | 1 1/4" | 1 1/2" | 2" | 2 1/2" | 3" | 4" |



VALVULAS PIE  
FOOT VALVE



VALVULAS RETENCIÓN  
RETENTION VALVE



CAUDALÍMETRO  
FLOW METER

| Caudalímetro<br>Flow meter | Caudal / Flow<br>max. | Caudal / Flow<br>min. |
|----------------------------|-----------------------|-----------------------|
| 1 1/2" (50 mm)             | 21.000                | 3.000                 |
| 2" (63 mm)                 | 28.000                | 6.000                 |
| 2 1/2" (75mm)              | 42.000                | 9.000                 |
| 3" (90 mm)                 | 51.000                | 12.000                |
| 4" (110 mm)                | 108.000               | 36.000                |
| 6" (160 mm)                | 192.000               | 54.000                |
| 8" (200 mm)                | 306.000               | 90.000                |

## INTERRUPTOR DE BOYA / SWITCH LEVEL



Incluye 3, 5 o 10 metros  
de cable

SACI - 2

LLENADO O VACIADO  
DE DEPOSITOS

## EMPALME TERMORRETRACTIL



LIMITES APLICACION  
PARA CABLES

DE Ø 8 A Ø 25

## EMPALME DE RESINA



# ACCESORIOS

## PRESOSTATOS PRESSURE GAUGE



### SQUARE D

| Tipo     | Reg. Kgs/cm <sup>2</sup> | Conexión | Descripción  |
|----------|--------------------------|----------|--|
| FSG-2    | 1,4 - 4,6                | 1/4" Gas |  |
| FYG-22   | 2,8 - 7                  |          |  |
| FYG-32   | 5,6 - 10,5               |          |  |
| FSG-2/M4 | 1,4 - 4,6                | 1/4" Gas | Con dispositivo de seguridad, desconexión a falta de presión de alimentación |
| FXG-2    | 1 - 6                    |          |  |
| FXG-4    | 1 - 12                   |          |  |
|          |                          |          | INVERSADO  |



### TELEMECANIQUE

| Tipo         | Reg. Kgs/cm <sup>2</sup> | Conexión |
|--------------|--------------------------|----------|
| TELEM 6 Kg.  | 0,9 - 6                  | 1/4" Gas |
| TELEM 12 Kg. | 1,3 - 12                 |          |
| TELEM 25 Kg. | 3,5 - 25                 |          |

### SACI

| Tipo | Reg. Kgs/cm <sup>2</sup> | Conexión |
|------|--------------------------|----------|
| SK-2 | 1,4 - 4,6                | 1/4" Gas |

## MANOMETRO / MANOMETER



**NORMAL Y GLICERINA**  
0 - 10 Kg./cm<sup>2</sup>

Conexión 1/4" Gas

## RACOR 5 VIAS 5 WAY FITTING



## CIERRES MECANICOS / MECHANICAL SEAL



# PRESSCONTROL MASCONTROL CONTROLPRES



Presscontrol



Mascontrol



Controlpress



**Aplicaciones:** Los controladores de presión **Presscontrol**, **Mascontrol** y **Controlpress** son dispositivos de activación y paro para bombas monofásicas, que gracias al dispositivo electrónico que incorporan en su interior, permiten el arranque y paro automático del motor cuando existe demanda de agua. Gracias a la electrónica y el sensor que incorporan, permiten el paro automático de la bomba cuando se detecta trabajo sin agua.

El **Controlpress** es un sistema de control para electrobombas que, además de las características de los anteriores dispositivos permite la regulación (reducción) de la presión máxima generada por la bomba hasta llegar al valor de presión deseado.

**Características constructivas:** Grado de Protección IP-65. El Presscontrol, Mascontrol y el Controlpress equipan un pequeño panel en la parte frontal de aparato con indicadores luminosos de:

- Conectado a tensión
- Bomba en marcha
- Fallo (por falta de agua o sobre consumo)

**Eliminación del golpe de ariete gracias a un muelle regulador tarado.**

**Paro automático de la bomba en caso de falta de agua, evitando el funcionamiento en seco, que produciría averías.**

| Características                            | PRESSCONTROL | MASCONTROL | CONTROLPRESS |
|--|--------------|------------|--------------|
| Tensión monofásica / <i>single ph.</i>     | 230 V.       | 230 V.     | 230 V.       |
| Intensidad máxima / <i>max. int.</i>       | 10 A.        | 16 A.      | 16 A.        |
| Frecuencia / <i>Frequency</i>              | 50-60 Hz.    | 50-60 Hz.  | 50-60 Hz.    |
| Campo regulación de la presión             | -            | -          | 2,5 - 7 bar  |
| Presión máx. admitida / <i>max. press.</i> | 10 bar       | 10 bar     | 10 bar       |
| Conexiones / <i>Connections</i>            | 1"           | 1 1/4"     | 1 1/4"       |
| Presión arranque                           | 1,5 bar      | 1,5 bar    | 1,5 bar      |



**Applications:** The **Presscontrol**, **Masscontrol** and **Controlpress** pressure controllers are start and stop devices for single-phase pumps, which, thanks to the electronic device they incorporate inside, allow the automatic start and stop of the motor when there is a demand for water. Thanks to the electronics and the sensor they incorporate, they allow the automatic stop of the pump when work without water is detected.

**Controlpress** is an electronic system, that permits the regulation (reducing) of the maximum pressure of the pump.

**Constructive characteristics:** IP-65 protection. The **Presscontrol**, **Mascontrol** and **Controlpress** have a small panel on the front of the apparatus with light indicators for:

- Turned on
- Pump running
- Failure (empty water or overload)

**Elimination of water hammer shock absorber knock by means of a gauged regulator spring.**

**Automatic pump stop in the event of a lack of water, preventing the dry working that causes breakdowns**

USO ADECUADO PARA VIVIENDAS MONO Y PLURIFAMILIARES, BOMBAS SUMERGIBLES PARA POZO RIEGOS DE JARDIN, INDUSTRIAS, CAMPINGS, ETC.

El desnivel desde el aparato hasta el punto más alto de utilización no debe superar los 15 m.c.a. No necesita ninguna regulación ni mantenimiento

THE MAXIMUM HEIGHT TO THE HIGHER POINT OF THE INSTALATION CAN NOT BE HIGHER THAN 15 m.c.a.

# DATOS TÉCNICOS

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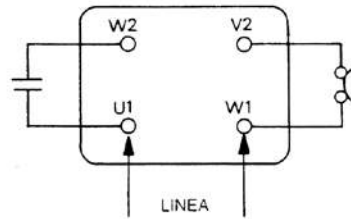
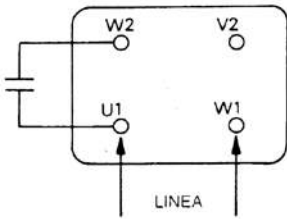
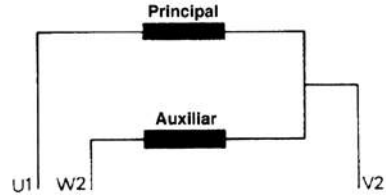
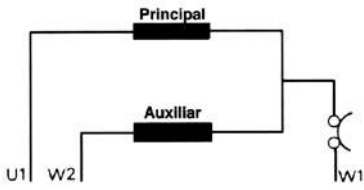
# TECHNICAL DATA



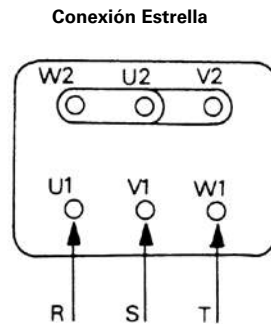
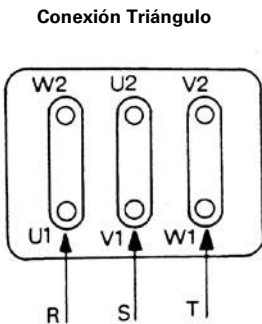
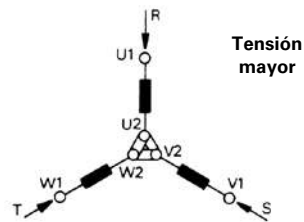
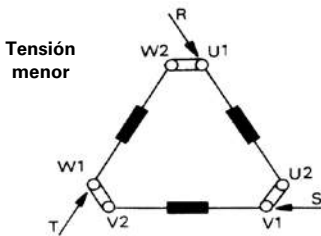
# CONEXIÓN MOTORES ELÉCTRICOS

## ELECTRIC MOTORS CONNECTION

### MONOFÁSICO / SINGLE PHASE



### TRIFÁSICO / THREE PHASE





# SECCIÓN CABLE MOTOR MONOFÁSICO

## SINGLE PHASE MOTOR CABLE SECTION

| Potencia / Power |             | Sección cable mm <sup>2</sup> / Cable section mm <sup>2</sup> |     |     |     |      |      |
|------------------|-------------|---|-----|-----|-----|------|------|
| CV               | KW          | 1,5   | 2,5 | 4   | 6   | 10   | 16   |
|                  |             | Longitud / Length   |     |     |     |      |      |
| <b>0,33</b>      | <b>0,25</b> | 170   | 280 | 450 | 670 | 1130 | 1750 |
| <b>0,50</b>      | <b>0,37</b> | 120   | 200 | 320 | 480 | 810  | 1260 |
| <b>0,75</b>      | <b>0,55</b> | 80  | 130 | 220 | 320 | 550  | 850  |
| <b>1</b>         | <b>0,75</b> | 60  | 100 | 170 | 250 | 430  | 670  |
| <b>1,5</b>       | <b>1,1</b>  | 40  | 70  | 120 | 180 | 300  | 470  |
| <b>2</b>         | <b>1,5</b>  | 30  | 60  | 90  | 130 | 230  | 360  |
| <b>3</b>         | <b>2,2</b>  | 20  | 40  | 60  | 90  | 150  | 230  |

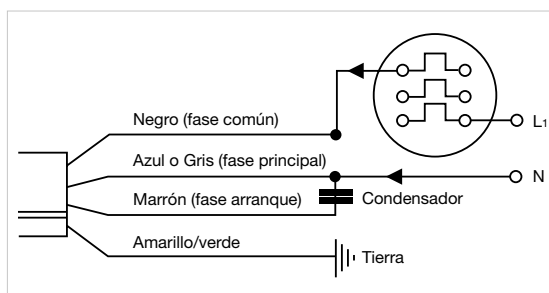
# POTENCIA PARA GENERADORES

## POWER FOR GENERATORS

| Potencia Motor<br>Motor Power |      | Generador<br>Generator |      |
|-------------------------------|------|------------------------|------|
| HP                            | KW   | KW                     | KWA  |
| 0,5                           | 0,37 | 1,5                    | 2    |
| 0,75                          | 0,55 | 2                      | 2,5  |
| 1                             | 0,75 | 2,5                    | 3    |
| 1,5                           | 1,1  | 3,5                    | 4,5  |
| 2                             | 1,5  | 4                      | 5    |
| 3                             | 2,2  | 6                      | 7,5  |
| 4                             | 3    | 9                      | 11   |
| 5,5                           | 4    | 10                     | 12,5 |
| 7,5                           | 5,5  | 12,5                   | 15,6 |
| 10                            | 7,5  | 15                     | 18   |
| 12,5                          | 9,2  | 18,8                   | 23,5 |
| 15                            | 11   | 22,5                   | 28   |
| 20                            | 15   | 30                     | 38   |
| 25                            | 18,5 | 40                     | 50   |
| 30                            | 22   | 45                     | 57   |
| 40                            | 30   | 60                     | 75   |
| 50                            | 37   | 75                     | 94   |
| 60                            | 45   | 90                     | 112  |
| 70                            | 51   | 105                    | 131  |
| 100                           | 75   | 150                    | 190  |
| 125                           | 92   | 185                    | 230  |
| 150                           | 110  | 210                    | 260  |

### ESQUEMA CONEXIÓN MONOFÁSICO

#### SINGLE PHASE SCHEMATIC CONNECTION



Para cerrar con estanqueidad la conexión de la prolongación del cable, téngase en cuenta el EMPALME RETRÁCTIL.

# SECCIÓN CABLE (DIRECTO)

## CABLE SECTION (DIRECT)

| Arranque Directo / Direct Start |      |      |   |     |     |     |     |     |     |     |     |     |     |
|---------------------------------|------|------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Potencia / Power                |      | V    | Sección cable mm <sup>2</sup> / Cable section mm <sup>2</sup> |     |     |     |     |     |     |     |     |     |     |
| HP                              | KW   |      | 1,5   | 2,5 | 4   | 6   | 10  | 16  | 25  | 35  | 50  | 70  | 95  |
| Longitud / Length               |      |      |   |     |     |     |     |     |     |     |     |     |     |
| 0,5                             | 0,37 | 230V | 176   | 293 |     |     |     |     |     |     |     |     |     |
|                                 |      | 400V | 524   |     |     |     |     |     |     |     |     |     |     |
| 0,75                            | 0,55 | 230V | 141   | 235 | 377 |     |     |     |     |     |     |     |     |
|                                 |      | 400V | 422   |     |     |     |     |     |     |     |     |     |     |
| 1                               | 0,75 | 230V | 110   | 183 | 293 |     |     |     |     |     |     |     |     |
|                                 |      | 400V | 328   | 547 |     |     |     |     |     |     |     |     |     |
| 1,5                             | 1,1  | 230V | 70  | 117 | 187 | 280 |     |     |     |     |     |     |     |
|                                 |      | 400V | 209   | 349 | 558 |     |     |     |     |     |     |     |     |
| 2                               | 1,5  | 230V | 53  | 89  | 143 | 214 |     |     |     |     |     |     |     |
|                                 |      | 400V | 150   | 266 | 427 |     |     |     |     |     |     |     |     |
| 3                               | 2,2  | 230V | 38  | 63  | 101 | 151 |     |     |     |     |     |     |     |
|                                 |      | 400V | 113   | 188 | 302 | 452 |     |     |     |     |     |     |     |
| 4                               | 3    | 230V | 30  | 50  | 81  | 121 | 200 |     |     |     |     |     |     |
|                                 |      | 400V | 90  | 151 | 241 | 362 |     |     |     |     |     |     |     |
| 5,5                             | 4    | 230V | 22  | 37  | 60  | 90  | 150 | 240 |     |     |     |     |     |
|                                 |      | 400V | 67  | 110 | 179 | 269 | 450 |     |     |     |     |     |     |
| 7,5                             | 5,5  | 230V |   | 28  | 45  | 67  | 111 | 180 | 275 |     |     |     |     |
|                                 |      | 400V | 50  | 85  | 135 | 195 | 340 | 540 |     |     |     |     |     |
| 10                              | 7,5  | 230V |   | 21  | 34  | 50  | 85  | 135 | 210 |     |     |     |     |
|                                 |      | 400V |   | 64  | 100 | 150 | 255 | 410 |     |     |     |     |     |
| 12,5                            | 9,2  | 230V |   |     | 27  | 41  | 68  | 109 | 155 | 230 |     |     |     |
|                                 |      | 400V |   | 50  | 81  | 122 | 205 | 325 | 496 |     |     |     |     |
| 15                              | 11   | 230V |   |     |     | 35  | 59  | 93  | 142 | 200 | 230 |     |     |
|                                 |      | 400V |   |     | 70  | 105 | 177 | 280 | 430 |     |     |     |     |
| 17,5                            | 13   | 230V |   |     |     |     | 51  | 79  | 125 | 172 | 240 |     |     |
|                                 |      | 400V |   |     |     | 90  | 153 | 240 | 375 | 515 |     |     |     |
| 20                              | 15   | 230V |   |     |     |     | 44  | 70  | 107 | 148 | 205 |     |     |
|                                 |      | 400V |   |     |     | 78  | 131 | 210 | 320 | 445 |     |     |     |
| 25                              | 18,5 | 230V |   |     |     |     |     | 56  | 87  | 120 | 167 | 230 |     |
|                                 |      | 400V |   |     |     |     | 105 | 170 | 261 | 360 | 500 |     |     |
| 30                              | 22   | 230V |   |     |     |     |     |     | 71  | 98  | 136 | 186 |     |
|                                 |      | 400V |   |     |     |     | 89  | 139 | 212 | 294 | 409 |     |     |
| 35                              | 26   | 230V |   |     |     |     |     |     | 64  | 88  | 123 | 168 | 213 |
|                                 |      | 400V |   |     |     |     |     | 122 | 191 | 264 | 369 | 504 |     |
| 40                              | 30   | 230V |   |     |     |     |     |     | 56  | 78  | 109 | 150 | 189 |
|                                 |      | 400V |   |     |     |     |     | 108 | 170 | 235 | 327 | 448 |     |
| 50                              | 37   | 230V |   |     |     |     |     |     |     | 64  | 89  | 123 | 156 |
|                                 |      | 400V |   |     |     |     |     |     | 138 | 190 | 268 | 368 | 468 |
| 60                              | 45   | 230V |   |     |     |     |     |     |     |     | 76  | 105 | 133 |
|                                 |      | 400V |   |     |     |     |     |     | 115 | 160 | 228 | 314 | 398 |
| 70                              | 51   | 230V |   |     |     |     |     |     |     |     |     | 92  | 116 |
|                                 |      | 400V |   |     |     |     |     |     |     | 140 | 200 | 275 | 349 |
| 75                              | 55   | 230V |   |     |     |     |     |     |     |     |     | 80  | 103 |
|                                 |      | 400V |   |     |     |     |     |     |     | 120 | 175 | 240 | 308 |
| 90                              | 66   | 230V |   |     |     |     |     |     |     |     |     |     | 93  |
|                                 |      | 400V |   |     |     |     |     |     |     |     | 155 | 220 | 278 |
| 100                             | 75   | 230V |   |     |     |     |     |     |     |     |     |     |     |
|                                 |      | 400V |   |     |     |     |     |     |     |     |     | 195 | 248 |
| 125                             | 92   | 230V |   |     |     |     |     |     |     |     |     |     |     |
|                                 |      | 400V |   |     |     |     |     |     |     |     |     |     | 202 |
| 150                             | 110  | 230V |   |     |     |     |     |     |     |     |     |     |     |
|                                 |      | 400V |   |     |     |     |     |     |     |     |     |     | 166 |

# SECCIÓN CABLE (ESTRELLA-TRIANGULO)

## CABLE SECTION (STAR-DELTA)

| Arranque Estrella-Triángulo / <i>Star-Delta Start</i> |      |                   |   |     |     |     |     |     |     |     |     |     |     |
|---|------|-------------------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Potencia / Power                                      |      | V                 | Sección cable mm <sup>2</sup> / Cable section mm <sup>2</sup> |     |     |     |     |     |     |     |     |     |     |
| HP  | KW   |                   | 1,5   | 2,5 | 4   | 6   | 10  | 16  | 25  | 35  | 50  | 70  | 95  |
|   |      | Longitud / Length |   |     |     |     |     |     |     |     |     |     |     |
| 4   | 3    | 230V              | 46  | 75  | 122 | 180 |     |     |     |     |     |     |     |
|   |      | 400V              | 136   | 225 | 365 |     |     |     |     |     |     |     |     |
| 5,5   | 4    | 230V              | 34  | 56  | 91  | 136 | 235 |     |     |     |     |     |     |
|   |      | 400V              | 102   | 168 | 270 | 405 |     |     |     |     |     |     |     |
| 7,5   | 5,5  | 230V              | 25  | 42  | 67  | 100 | 175 |     |     |     |     |     |     |
|   |      | 400V              | 76  | 128 | 200 | 300 | 510 |     |     |     |     |     |     |
| 10  | 7,5  | 230V              | 19  | 31  | 50  | 75  | 129 | 203 |     |     |     |     |     |
|   |      | 400V              | 57  | 93  | 150 | 225 | 385 |     |     |     |     |     |     |
| 12,5  | 9,2  | 230V              |   | 25  | 40  | 60  | 103 | 161 |     |     |     |     |     |
|   |      | 400V              | 45  | 75  | 120 | 180 | 309 | 483 |     |     |     |     |     |
| 15  | 11   | 230V              |   | 22  | 35  | 52  | 90  | 141 | 215 |     |     |     |     |
|   |      | 400V              | 39  | 66  | 105 | 156 | 270 | 421 |     |     |     |     |     |
| 17,5  | 13   | 230V              |   | 19  | 30  | 45  | 77  | 121 | 185 |     |     |     |     |
|   |      | 400V              |   | 57  | 90  | 135 | 230 | 360 |     |     |     |     |     |
| 20  | 15   | 230V              |   |     | 26  | 39  | 57  | 104 | 159 | 219 |     |     |     |
|   |      | 400V              |   | 48  | 77  | 116 | 200 | 310 | 475 |     |     |     |     |
| 25  | 18,5 | 230V              |   |     |     | 31  | 54  | 84  | 128 | 177 |     |     |     |
|   |      | 400V              |   |     | 63  | 93  | 161 | 251 | 383 | 530 |     |     |     |
| 30  | 22   | 230V              |   |     |     |     | 43  | 68  | 103 | 143 | 199 |     |     |
|   |      | 400V              |   |     | 51  | 76  | 129 | 203 | 309 | 428 |     |     |     |
| 35  | 26   | 230V              |   |     |     |     | 39  | 61  | 93  | 128 | 179 |     |     |
|   |      | 400V              |   |     | 45  | 68  | 117 | 183 | 279 | 384 |     |     |     |
| 40  | 30   | 230V              |   |     |     |     | 54  | 83  | 115 | 159 | 217 |     |     |
|   |      | 400V              |   |     |     | 60  | 104 | 162 | 248 | 343 | 476 |     |     |
| 50  | 37   | 230V              |   |     |     |     | 44  | 68  | 94  | 131 | 179 |     |     |
|   |      | 400V              |   |     | 50  | 86  | 132 | 204 | 281 | 392 |     |     |     |
| 60  | 45   | 230V              |   |     |     |     |     | 58  | 80  | 111 | 152 | 192 |     |
|   |      | 400V              |   |     |     |     | 73  | 112 | 173 | 239 | 332 | 454 |     |
| 70  | 51   | 230V              |   |     |     |     |     |     | 51  | 70  | 98  | 133 | 169 |
|   |      | 400V              |   |     |     |     |     | 99  | 152 | 210 | 292 | 395 | 505 |
| 75  | 55   | 230V              |   |     |     |     |     |     | 62  | 86  | 117 | 149 |     |
|   |      | 400V              |   |     |     |     |     | 87  | 133 | 185 | 257 | 350 | 445 |
| 90  | 66   | 230V              |   |     |     |     |     |     |     | 56  | 78  | 106 | 135 |
|   |      | 400V              |   |     |     |     |     |     | 120 | 167 | 233 | 317 | 403 |
| 100   | 75   | 230V              |   |     |     |     |     |     |     | 70  | 95  | 120 |     |
|   |      | 400V              |   |     |     |     |     |     | 108 | 149 | 209 | 284 | 359 |
| 125   | 92   | 400V              |   |     |     |     |     |     |     | 121 | 169 | 230 | 293 |
| 150   | 110  | 400V              |   |     |     |     |     |     |     |     | 140 | 190 | 242 |

# PÉRDIDAS DE CARGA

## LOAD LOSSES

| Caudal /<br>Flow<br>m³/h | Diámetro interior de tubería en mm / <i>Internal diameter of pipe in mm</i> |           |            |             |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |      |     |     |     |  |  |
|--------------------------|---|-----------|------------|-------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|------|-----|-----|-----|--|--|
|                          | 25  | 32        | 40         | 50          | 60           | 70           | 80           | 90           | 100          | 125          | 150          | 175          | 200          | 225          | 250          | 275          | 300          | 350          | 400          | 450  | 500 | 600 | 700 |  |  |
| 3                        | Pc %<br>Vm/s  | 17<br>1,7 | 6<br>1,03  | 1,6<br>0,67 | 0,54<br>0,43 | 0,25<br>0,29 | 0,13<br>0,16 | 0,06<br>0,13 | 0,03<br>0,1  | 0,02<br>0,1  |              |              |              |              |              |              |              |              |              |      |     |     |     |  |  |
| 6                        | Pc %<br>Vm/s  |           | 24<br>2,06 | 6<br>1,34   | 2<br>0,85    | 0,9<br>0,58  | 0,43<br>0,44 | 0,21<br>0,32 | 0,13<br>0,26 | 0,08<br>0,2  | 0,026<br>0,2 |              |              |              |              |              |              |              |              |      |     |     |     |  |  |
| 9                        | Pc %<br>Vm/s  |           |            | 20<br>2,08  | 7<br>1,32    | 3,2<br>0,89  | 1,5<br>0,65  | 0,75<br>0,5  | 0,44<br>0,39 | 0,25<br>0,32 | 0,15<br>0,2  | 0,06<br>0,09 |              |              |              |              |              |              |              |      |     |     |     |  |  |
| 12                       | Pc %<br>Vm/s  |           |            | 20<br>2,76  | 7<br>1,76    | 3,2<br>1,19  | 1,5<br>0,88  | 0,75<br>0,67 | 0,44<br>0,53 | 0,25<br>0,43 | 0,15<br>0,27 | 0,06<br>0,18 |              |              |              |              |              |              |              |      |     |     |     |  |  |
| 15                       | Pc %<br>Vm/s  |           |            |             | 12<br>2,2    | 5,2<br>1,49  | 2,4<br>1,1   | 1,25<br>0,87 | 0,7<br>0,66  | 0,42<br>0,54 | 0,15<br>0,34 | 0,06<br>0,24 |              |              |              |              |              |              |              |      |     |     |     |  |  |
| 18                       | Pc %<br>Vm/s  |           |            |             | 17<br>2,64   | 7<br>1,78    | 3,5<br>1,3   | 1,7<br>1     | 0,6<br>0,78  | 0,2<br>0,64  | 0,08<br>0,4  | 0,28<br>0,28 |              |              |              |              |              |              |              |      |     |     |     |  |  |
| 21                       | Pc %<br>Vm/s  |           |            |             | 22<br>3,35   | 8,8<br>2,08  | 4,2<br>1,54  | 2,2<br>1,17  | 1,3<br>0,93  | 0,75<br>0,75 | 0,26<br>0,48 | 0,1<br>0,32  | 0,05<br>0,24 |              |              |              |              |              |              |      |     |     |     |  |  |
| 24                       | Pc %<br>Vm/s  |           |            |             |              | 12<br>2,38   | 5,7<br>1,76  | 3<br>1,34    | 1,7<br>1,06  | 1<br>0,86    | 0,36<br>0,54 | 0,14<br>0,36 | 0,07<br>0,28 |              |              |              |              |              |              |      |     |     |     |  |  |
| 27                       | Pc %<br>Vm/s  |           |            |             |              | 14<br>2,7    | 7<br>1,97    | 3,5<br>1,45  | 2<br>1,17    | 1,25<br>0,96 | 0,42<br>0,6  | 0,17<br>0,42 | 0,08<br>0,31 |              |              |              |              |              |              |      |     |     |     |  |  |
| 30                       | Pc %<br>Vm/s  |           |            |             |              | 17<br>2,98   | 8,2<br>2,2   | 4,2<br>1,74  | 2,5<br>1,32  | 1,5<br>1,08  | 0,5<br>0,68  | 0,2<br>0,48  | 0,09<br>0,34 |              |              |              |              |              |              |      |     |     |     |  |  |
| 36                       | Pc %<br>Vm/s  |           |            |             |              | 25<br>3,58   | 12<br>2,63   | 6,3<br>2     | 3,5<br>1,58  | 2<br>1,28    | 0,75<br>0,82 | 0,3<br>0,57  | 0,14<br>0,42 | 0,07<br>0,32 |              |              |              |              |              |      |     |     |     |  |  |
| 42                       | Pc %<br>Vm/s  |           |            |             |              |              | 16<br>3,07   | 8,5<br>2,34  | 4,5<br>1,85  | 2,7<br>1,5   | 0,85<br>0,96 | 0,33<br>0,66 | 0,18<br>0,48 | 0,08<br>0,37 |              |              |              |              |              |      |     |     |     |  |  |
| 48                       | Pc %<br>Vm/s  |           |            |             |              |              | 21<br>3,51   | 10<br>2,68   | 6<br>2,12    | 3,6<br>1,72  | 1,2<br>1,08  | 0,45<br>0,72 | 0,22<br>0,56 | 0,12<br>0,43 | 0,06<br>0,34 |              |              |              |              |      |     |     |     |  |  |
| 54                       | Pc %<br>Vm/s  |           |            |             |              |              | 25<br>3,94   | 13,5<br>3    | 7,6<br>2,34  | 4,5<br>1,92  | 1,5<br>1,2   | 0,55<br>0,84 | 0,28<br>0,63 | 0,14<br>0,48 | 0,08<br>0,38 |              |              |              |              |      |     |     |     |  |  |
| 60                       | Pc %<br>Vm/s  |           |            |             |              |              | 16<br>3,32   | 9<br>2,64    | 5,5<br>2,16  | 1,8<br>1,36  | 0,7<br>0,96  | 0,33<br>0,68 | 0,17<br>0,53 | 0,1<br>0,42  |              |              |              |              |              |      |     |     |     |  |  |
| 75                       | Pc %<br>Vm/s  |           |            |             |              |              | 24<br>4,17   | 14<br>3,31   | 8<br>2,68    | 2,76<br>1,72 | 1<br>1,18    | 0,49<br>0,87 | 0,24<br>0,67 | 0,14<br>0,53 | 0,08<br>0,43 |              |              |              |              |      |     |     |     |  |  |
| 90                       | Pc %<br>Vm/s  |           |            |             |              |              |              | 20<br>3,97   | 12,5<br>3,24 | 3,8<br>2,04  | 1,45<br>1,44 | 0,74<br>1,02 | 0,36<br>0,8  | 0,2<br>0,63  | 0,14<br>0,51 | 0,08<br>0,42 |              |              |              |      |     |     |     |  |  |
| 105                      | Pc %<br>Vm/s  |           |            |             |              |              |              | 26<br>4,6    | 16,5<br>3,74 | 5,3<br>2,41  | 1,95<br>1,66 | 0,9<br>1,22  | 0,47<br>0,93 | 0,27<br>0,74 | 0,16<br>0,59 | 0,1<br>0,49  |              |              |              |      |     |     |     |  |  |
| 120                      | Pc %<br>Vm/s  |           |            |             |              |              |              | 21,5<br>4,31 | 6,9<br>2,72  | 2,6<br>1,93  | 1,2<br>1,35  | 0,61<br>1,06 | 0,36<br>0,84 | 0,2<br>0,68  | 0,14<br>0,56 | 0,1<br>0,47  | 0,08         |              |              |      |     |     |     |  |  |
| 135                      | Pc %<br>Vm/s  |           |            |             |              |              |              | 26<br>4,81   | 9<br>1,07    | 3,3<br>2,13  | 1,5<br>1,56  | 0,76<br>1,19 | 0,45<br>0,95 | 0,25<br>0,76 | 0,17<br>0,63 | 0,1<br>0,53  |              |              |              |      |     |     |     |  |  |
| 150                      | Pc %<br>Vm/s  |           |            |             |              |              |              |              | 11<br>3,44   | 4<br>2,36    | 1,9<br>1,74  | 0,95<br>1,34 | 0,55<br>1,05 | 0,3<br>0,86  | 0,21<br>0,07 | 0,12<br>0,59 | 0,06<br>0,43 |              |              |      |     |     |     |  |  |
| 165                      | Pc %<br>Vm/s  |           |            |             |              |              |              |              | 13<br>3,75   | 4,7<br>2,61  | 2,2<br>1,91  | 1,13<br>1,46 | 0,65<br>1,15 | 0,37<br>0,94 | 0,24<br>0,77 | 0,15<br>0,65 | 0,08<br>0,48 |              |              |      |     |     |     |  |  |
| 180                      | Pc %<br>Vm/s  |           |            |             |              |              |              |              | 15,2<br>4,09 | 5,5<br>2,83  | 2,6<br>2,08  | 1,3<br>1,59  | 0,76<br>1,26 | 0,43<br>1,02 | 0,29<br>0,84 | 0,18<br>0,71 | 0,09<br>0,52 |              |              |      |     |     |     |  |  |
| 210                      | Pc %<br>Vm/s  |           |            |             |              |              |              |              | 21<br>4,7    | 7,4<br>3,32  | 3,5<br>2,43  | 1,8<br>1,86  | 0,6<br>1,49  | 0,37<br>1,19 | 0,24<br>0,98 | 0,12<br>0,82 | 0,1<br>0,61  | 0,08         |              |      |     |     |     |  |  |
| 240                      | Pc %<br>Vm/s  |           |            |             |              |              |              |              | 9,4<br>3,78  | 4,3<br>2,77  | 2,3<br>2,12  | 1,3<br>1,68  | 0,75<br>1,36 | 0,48<br>1,12 | 0,3<br>0,95  | 0,15<br>0,69 | 0,08<br>0,53 |              |              |      |     |     |     |  |  |
| 270                      | Pc %<br>Vm/s  |           |            |             |              |              |              |              | 12<br>4,26   | 5,5<br>3,13  | 2,8<br>2,39  | 1,62<br>1,9  | 0,9<br>1,53  | 0,58<br>1,26 | 0,35<br>1,07 | 0,18<br>0,78 | 0,09<br>0,59 |              |              |      |     |     |     |  |  |
| 300                      | Pc %<br>Vm/s  |           |            |             |              |              |              |              | 14<br>4,75   | 7,5<br>3,47  | 3,4<br>2,66  | 2<br>1,71    | 1,1<br>1,4   | 0,74<br>1,46 | 0,22<br>0,86 | 0,11<br>0,67 | 0,07<br>0,53 |              |              |      |     |     |     |  |  |
| 360                      | Pc %<br>Vm/s  |           |            |             |              |              |              |              | 9<br>4,15    | 4,7<br>3,17  | 2,8<br>2,53  | 1,6<br>2,04  | 1<br>1,41    | 0,65<br>1,41 | 0,32<br>1,04 | 0,16<br>0,79 | 0,09<br>0,63 | 0,05<br>0,51 |              |      |     |     |     |  |  |
| 420                      | Pc %<br>Vm/s  |           |            |             |              |              |              |              | 11,6<br>4,86 | 6,2<br>3,72  | 3,5<br>2,94  | 2<br>2,37    | 1,3<br>1,96  | 0,82<br>1,64 | 0,41<br>1,22 | 0,12<br>0,94 | 0,07<br>0,76 | 0,07<br>0,59 | 0,03<br>0,41 |      |     |     |     |  |  |
| 480                      | Pc %<br>Vm/s  |           |            |             |              |              |              |              |              | 8,5<br>4,24  | 4,9<br>3,36  | 2,9<br>2,72  | 1,9<br>2,24  | 1,2<br>1,9   | 0,6<br>1,38  | 0,3<br>1,06  | 0,17<br>0,84 | 0,12<br>0,69 | 0,04<br>0,47 |      |     |     |     |  |  |
| 540                      | Pc %<br>Vm/s  |           |            |             |              |              |              |              |              | 11<br>4,78   | 6,5<br>3,8   | 3,7<br>3,06  | 2,35<br>2,52 | 1,52<br>1,13 | 0,75<br>1,56 | 0,38<br>1,19 | 0,22<br>0,94 | 0,12<br>0,76 | 0,05<br>0,53 |      |     |     |     |  |  |
| 600                      | Pc %<br>Vm/s  |           |            |             |              |              |              |              |              | 12,2<br>5,3  | 7,4<br>4,2   | 4,3<br>2,81  | 2,7<br>2,36  | 1,7<br>1,73  | 0,9<br>1,34  | 0,45<br>1,06 | 0,25<br>0,83 | 0,13<br>0,61 | 0,05<br>0,44 | 0,02 |     |     |     |  |  |
| 660                      | Pc %<br>Vm/s  |           |            |             |              |              |              |              |              | 9<br>4,61    | 5,2<br>3,76  | 3,3<br>3,07  | 2,1<br>2,59  | 1,1<br>1,89  | 0,54<br>1,46 | 0,3<br>1,15  | 0,16<br>0,93 | 0,06<br>0,65 | 0,06<br>0,48 |      |     |     |     |  |  |
| 720                      | Pc %<br>Vm/s  |           |            |             |              |              |              |              |              | 10<br>5,05   | 6<br>4,08    | 3,8<br>3,37  | 2,5<br>2,84  | 1,3<br>2,08  | 0,62<br>1,65 | 0,35<br>1,26 | 0,19<br>1,02 | 0,07<br>0,71 | 0,07<br>0,52 |      |     |     |     |  |  |
| 780                      | Pc %<br>Vm/s  |           |            |             |              |              |              |              |              |              | 7,3<br>4,43  | 4,5<br>3,65  | 3<br>3,08    | 1,5<br>2,26  | 0,75<br>1,73 | 0,42<br>1,36 | 0,23<br>1,11 | 0,08<br>0,77 | 0,04<br>0,56 |      |     |     |     |  |  |
| 840                      | Pc %<br>Vm/s  |           |            |             |              |              |              |              |              |              | 8<br>4,76    | 5,4<br>3,95  | 3,4<br>3,31  | 1,7<br>2,43  | 0,85<br>1,86 | 0,48<br>1,47 | 0,26<br>1,19 | 0,11<br>0,83 | 0,04<br>0,61 |      |     |     |     |  |  |
| 900                      | Pc %<br>Vm/s  |           |            |             |              |              |              |              |              |              | 9<br>5,1     | 5,8<br>4,22  | 3,75<br>3,54 | 1,9<br>2,6   | 0,96<br>2    | 0,53<br>1,57 | 0,29<br>1,27 | 0,11<br>0,88 | 0,05<br>0,65 |      |     |     |     |  |  |

Las PÉRDIDAS DE CARGA producidas por los accesorios se calculan considerándolos como equivalentes a las siguientes longitudes de tubería:  
 VÁLVULAS DE PIE: Como 15 m. de tubería  
 VÁLVULAS DE RETENCIÓN: Como 10 m. de tubería  
 VÁLVULAS DE COMPUERTA: Como 5 m. de tubería

Para tuberías que no sean de hierro fundido recomendamos multiplicar los valores de las Pérdidas de Carga obtenidos en la tabla por los siguientes coeficientes:  
 TUBERÍAS HIERRO FORJADO: 0,76  
 TUBERÍAS ACERO SIN SOLDADURA: 0,80  
 TUBERÍAS DE FIBRO-CEMENTO: 0,80  
 TUBERÍAS DE CEMENTO: 0,80  
 TUBERÍAS DE GRES: 1,17  
 TUBERÍAS FORJADAS MUY USADAS: 2,10  
 TUBERÍAS HIERRO PAREDES RUGOSAS: 3,60

■ Diámetro tubería impulsión recomendable (mm)  
 ■ Diámetro tubería aspiración recomendable (mm)/V













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