

# AIR TREATMENT SYSTEMS

Comfort equals to air quality: rich in oxygen from the outside, filtered and dehumidified. With modern construction technologies and widespread sensitivity for energy saving, today buildings are increasingly isolated from the thermal point of view but lacking in aeration, that is, the natural replacement of air through windows and walls. In this context, in order to maintain clean air, healthy environments and adequate well-being all year round, we offer a complete range of units for the renewal of the air with heat recovery and for the summer dehumidification, to be combined with radiant plants.

## SUSTAINABLE DESIGN BY TIEMME

**The energy efficiency of buildings is an objective to be achieved through good design**, putting in place all the technologies and the most suitable constructive solutions to guarantee high performances of heating, cooling and insulation. The application of innovative technologies offers concrete solutions to achieve high energy efficiency, but the great challenge for designers is **to reconcile living comfort with sustainability requirements**.

The commitment of companies and designers to increase energy efficiency is supported by evolving regulation.

Tiemme provides its expertise, through consultants on the territory and qualified technicians who can help customers, designers to a new way of designing aimed at energy saving and living comfort.



# CLIMAV 2.0 BUILDING MANAGEMENT EXCELLENT COMFORT

The Climav 2.0 Building Management thermoregulation system is particularly suitable for the management of radiant floor and/or ceiling systems in both winter and summer operation, ensuring the comfort required by the user together with a significant energy saving.

The high modularity of the regulation system allows the control of different types of building, from small residential to tertiary, integrating the necessary energy supply with the management of renewable energy sources.

The quality of Climav 2.0 Building Management allows to manage all aspects of air conditioning, humidity management, but above all air treatment machines in order to manage the plant through a single system.

Recently the Climav 2.0 system has been updated to meet the requirements for Building Automation allowing to constantly track the energy consumption of the installed generators, allowing to identify possible critical factors and to allow an improvement. Thanks to a remote app, you can view and adjust in real time, one room at a time, to ensure your home well-being in any weather condition.



# CONTROLLED MECHANICAL VENTILATION



DECENTRALIZED

TIEMME EOLO

24 m<sup>3</sup>/h - 50 m<sup>3</sup>/h



## 5506

- Wall-mounted installation;
- Heat recovery with highest efficiency ceramic heat exchanger;
- G3 replacement filter;
- Autonomous or coordinated control system;
- Unit equipped with remote control;
- Low power consumption.

CEILING INSTALLATION

REC 150 - REC 200 - REC 300 - REC 500

150 m<sup>3</sup>/h - 500 m<sup>3</sup>/h



## 55040 550401

- Aluminum countercurrent heat exchanger (Eurovent certified);
- Electronic fans;
- Standard by-pass to exploit favorable climatic conditions (Free cooling or Free heating);
- Aluzinc® panels with polyurethane foam insulation;
- G4 Filters.

WALL FLUSH-MOUNTED INSTALLATION

RECI 150 - RECI 220

150 m<sup>3</sup>/h - 220 m<sup>3</sup>/h



## 5507

- Double flow ventilation unit with heat recovery unit for outdoor flush-mounting;
- Compact size;
- Easy maintenance;
- Low acoustic impact.

WALL OR FLOOR INSTALLATION

REC 30V - REC 50V

300 m<sup>3</sup>/h - 500 m<sup>3</sup>/h



## 5504V

- Aluminum countercurrent heat exchanger (Eurovent certified);
- Electronic fans;
- Standard by-pass to exploit favorable climatic conditions (Free cooling or Free heating);
- Aluzinc® panels with polyurethane foam insulation;
- G4 and F7 filters.

# DEHUMIDIFIERS



CEILING INSTALLATION

GH SERIES

300 m<sup>3</sup>/h - 500 m<sup>3</sup>/h



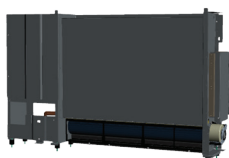
## 5600GH 5600GHWZ

- Refrigeration circuit for dehumidifying or integrating cooling and heating;
- Coarse filter;
- Fans with brushless EC motor;
- Very high efficiency and low noise levels;
- Electronic card with microprocessor for a precise humidity control;
- Insulation of the panels;
- Touch panel for control, with moisture probe on board.

WALL-MOUNTED

FH – FHD SERIES

200 m<sup>3</sup>/h - 500 m<sup>3</sup>/h



## 5600FH 5600FWZ

- Refrigeration circuit for dehumidifying or integrating cooling and heating;
- Coarse filter;
- Fans with brushless EC motor;
- Very high efficiency and low noise levels;
- Electronic card with microprocessor for a precise humidity control;
- Insulation of the panels;
- Touch panel for control, with moisture probe on board.



## 5600FDWZ

- Dehumidifiers for outdoor installation for radiant systems with integration;
- Space saving;
- Ideal for renovations.

# DEHUMIDIFIERS WITH CMV WITH HYDRONIC BATTERY FOR HEATING AND COOLING



**CEILING INSTALLATION** | CLIMA-H VMC SERIES | 150 m<sup>3</sup>/h - 600 m<sup>3</sup>/h

## 5508O



- Dual flow ductable ventilation unit with high efficiency recovery and further primary air treatment section to allow dehumidification and integration in heating and cooling;
- Equipped with hydronic battery;
- Compact size;
- Heat exchanger for a high degree of sensitive and latent energy recovery;
- Control panel with touch screen.

**WALL-MOUNTED** | CLIMA-V VMC SERIES | 150 m<sup>3</sup>/h - 600 m<sup>3</sup>/h

## 5508V

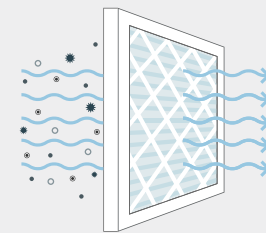


- Dual flow ductable ventilation unit with high efficiency recovery and further primary air treatment section to allow dehumidification and integration in heating and cooling;
- Equipped with hydronic battery;
- Compact size;
- Heat exchanger for a high degree of sensitive and latent energy recovery;
- Control panel with touch screen.

### FILTRATION

The Tiemme air treatment systems ensure fresh and healthy air thanks to the presence of filters on the machine. The filters prevent and stop pollutants suspended in both external and room air. Their aim is in fact to protect people from exposure to pollutants but also to protect the air treatment systems themselves, ensuring lasting performance and the efficiency of the machine. Since July 2018 a new classification (UNI EN ISO 16890) has been in force which defines the efficiency of the filters according to the dimensions of the particles PM1, PM2.5 and PM 10 which is blocked. This new classification has the advantage of offering a single worldwide standard and allows you to compare the performance of your filters with a unique classification.

Tiemme air treatment machines are equipped with 60% ISO Coarse filters which correspond to G4 filters according to the previous classification (EN 779).



Class	Minimum efficiency (%)	dimensions particles (µm)
ISO Coarse	< 50	0,3 - 10,0
ISO ePM 10	> 50	0,3 - 10,0
ISO ePM 2.5	> 50	0,3 - 2,5
ISO ePM 1	> 50	0,3 - 1,0

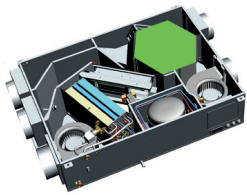
# DEUMIDIFICATORI CON VMC



CEILING INSTALLATION

GHWZ SERIES

300 m<sup>3</sup>/h - 500 m<sup>3</sup>/h



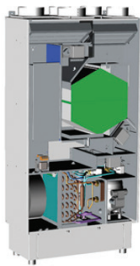
## 5602GHWZ

- Cross-flow heat recovery and moisture treatment with integration;
- Reduced height for easy installation;
- Control panel;
- EU7 (F7) class filters removable through dedicated doors;
- G4 class pre-filter;
- Germicidal LED lamp (optional)\*;
- Brushless centrifugal fans with inverter.

WALL-MOUNTED

GHWZ SERIESV

300 m<sup>3</sup>/h - 500 m<sup>3</sup>/h



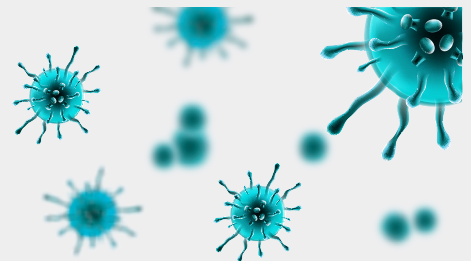
## 5602GHWZV

- Cross-flow heat recovery and moisture treatment with integration;
- Versione verticale per facilitare manutenzione;
- Control panel;
- EU7 (F7) class filters removable through dedicated doors;
- G4 class pre-filter;
- Germicidal LED lamp (optional)\*;
- Brushless centrifugal fans with inverter.

### \*LED LAMPS SANITIZATION

Purifying the air in the rooms is increasingly important, so to make sure we get healthy and quality air.

To achieve this result, in the Tiemme air treatment machines (art. 5602GHWZ - 5602GHWZV) are housed LED germicide lamps which exploit a sterilization method called Ultraviolet Germicidal Irradiation (UVGI). The "lamps" in the new machines emit ultraviolet rays at a wavelength between 250-280 nm, which irradiates the air flow, thus killing the bacteria present and ensuring clean air in the rooms.





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