

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 m³/h - 50 m³/h
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5506

- High performance ceramic heat exchanger for heat recovery;
- Low power consumption;
- Autonomous or coordinated control system for alternating flow management;
- Installation through the wall;
- Unit equipped with remote control;
- G3 replacement filter;

CEILING INSTALLATION	REC 150 - REC 200 - REC 300 - REC 500	150 m³/h - 500 m³/h
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55040 550401

- Polypropylene heat exchanger with high efficiency counter current cross flow;
- Brushless fans with electronic motor, constant flow control, very high efficiency and low noise levels;
- Automatic by-pass as standard to take advantage of favourable climatic conditions (Free cooling or Free heating);
- Electric panel with 4 speed fan management board;
- Self-supporting frame, housing made of sheet metal panels and EPS insulation;
- ePM1 70% filters.

WALL FLUSH-MOUNTED INSTALLATION	RECI 150 - RECI 220	150 m³/h - 220 m³/h
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5507

- Polypropylene heat exchanger with high efficiency counter current cross flow;
- Brushless fans with electronic motor, constant flow control, very high efficiency and low noise levels;
- Electric panel with 4 speed fan management board;
- Compact size to optimize recessed space and ensure easy maintenance;
- Self-supporting frame, housing made of sheet metal panels and EPS insulation;
- ePM1 70% filters.

WALL OR FLOOR INSTALLATION	REC 20V - REC 50V	200 m³/h - 500 m³/h
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5504V

- Polypropylene heat exchanger with high efficiency counter current cross flow;
- Brushless fans with electronic motor, constant flow control, very high efficiency and low noise levels;
- Automatic by-pass as standard to take advantage of favourable climatic conditions (Free cooling or Free heating);
- Electric panel with 4 speed fan management board;
- Connection configuration, adaptability to different system requirements for vertical wall or floor installations;
- Self-supporting frame, housing made of sheet metal panels and EPS insulation, estetica frontale in composito;
- ePM1 70% filters.

CEILING INSTALLATION - TERTIARY SECTOR	EVO TER 900 - EVO TER 1200	900 m³/h - 1200 m³/h
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55120

- Polypropylene heat exchanger with counter current cross flow;
- Brushless fans with electronic motor, constant flow control, very high efficiency and low noise levels;
- By-pass as standard to take advantage of favourable climatic conditions (Free cooling or Free heating) manual, motorized or automatic drive;
- Units for indoor installation both ceiling and floor (with feet kit);
- Self-supporting frame, casing made of sheet metal panels and rock wool insulation;
- ePM1 70% filters for renewal air - ePM10 50% filters for return air.

TERTIARY SECTOR

DEHUMIDIFIERS



CEILING INSTALLATION

GH SERIES

300 m³/h - 500 m³/h



5600GH 5600GHWZ

- Refrigeration circuit with alternative compressor for isothermal dehumidification or the integration of cooling and heating;
- Centrifugal fans with Brushless motor electronic double suction, very high efficiency and low noise levels;
- Electric board unit with microprocessor and dedicated regulation;
- Self-supporting frame, housing made of sheet metal panels and polyethylene insulation;
- Filters with Coarse filtration class.

WALL-MOUNTED

FH - FHD SERIES

200 m³/h - 500 m³/h



5600FH 5600FWZ

- Dehumidifiers for wall installation in combination with radiant systems;
- Refrigeration circuit with rotary compressor for isothermal dehumidification or the integration of cooling and heating;
- Tangential fans with Brushless motor with low consumption and very high efficiency;
- Electric board unit with microprocessor and dedicated regulation;
- Self-supporting frame and polyethylene internal insulation;
- Flat filters with Coarse filtration class.



5600FHDWZ

- Dehumidifiers for wall installation in combination with radiant systems;
- Cooling circuit with rotary compressor for dehumidification and integration of cooling and heating;
- Tangential fans with Brushless motor with low consumption and very high efficiency;
- Electric board unit with microprocessor and dedicated regulation;
- Self-supporting frame, housing made of sheet metal panels and polyethylene insulation;
- Filters with Coarse filtration class.

WALL FLUSH-MOUNTED INSTALLATION

FH1 SERIES

350 m³/h - 500 m³/h



5600FH1 5600FWZ1

- Dehumidifiers for wall installation in combination with radiant systems;
- Refrigeration circuit with alternative compressor for isothermal dehumidification or the integration of cooling and heating;
- Centrifugal fans with brushless motor with low consumption and very high efficiency;
- Electric board unit with microprocessor and dedicated regulation;
- Self-supporting frame and polyethylene internal insulation;
- Filters with Coarse filtration class.

DEHUMIDIFIERS WITH CMV



CEILING INSTALLATION	GHWZ SERIES	300 m³/h - 500 m³/h
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5602GHWZ

- Polypropylene heat exchanger with counter current cross flow, summer and winter operation with high performance;
- Refrigeration circuit with alternative compressor for isothermal dehumidification or the integration of cooling and heating;
- Plug-fun centrifugal fans with modulating electronic brushless motor, very high efficiency and low noise levels;
- Electric board unit with microprocessor and dedicated regulation;
- Free cooling realized inside the unit with large air passage and damper;
- Self-supporting frame, housing made of sheet metal panels and thermal/acoustic insulation;
- ePM1 70% filters external air intake and Coarse class filters with low pressure loss for recirculation air.

WALL-MOUNTED	GHWZV SERIES	300 m³/h - 500 m³/h
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5602GHWZV

- Polypropylene heat exchanger with counter current cross flow, summer and winter operation with high performance;
- Refrigeration circuit with alternative compressor for isothermal dehumidification or the integration of cooling and heating;
- Plug-fun centrifugal fans with modulating electronic brushless motor, very high efficiency and low noise levels;
- Electric board unit with microprocessor and dedicated regulation;
- Free cooling realized inside the unit with large air passage and damper;
- Self-supporting frame, housing made of sheet metal panels and thermal/acoustic insulation;
- ePM1 70% filters external air intake and Coarse class filters with low pressure loss for recirculation air.

DEHUMIDIFIERS WITH CMV WITH HYDRONIC BATTERY FOR HEATING AND COOLING



CEILING INSTALLATION	VMC CLIMA-H SERIES	150 m³/h - 600 m³/h
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5508O

- Polypropylene heat exchanger with counter current cross flow, summer and winter operation with high performance;
- Equipped with water battery with geometry optimized for dehumidification or integration of cooling and heating;
- Plug-fun centrifugal fans with modulating electronic brushless motor, very high efficiency and low noise levels;
- Electric board unit with microprocessor and dedicated regulation;
- Free cooling realized inside the unit with large air passage and damper;
- Self-supporting frame, casing made of sandwich panels, thermal and acoustic insulation;
- ePM1 70% filters external air intake and Coarse class filters with low pressure loss for recirculation air.

WALL-MOUNTED	VMC CLIMA-V SERIES	150 m³/h - 600 m³/h
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5508V

- Polypropylene heat exchanger with counter current cross flow, summer and winter operation with high performance;
- Equipped with water battery with geometry optimized for dehumidification or integration of cooling and heating;
- Plug-fun centrifugal fans with modulating electronic brushless motor, very high efficiency and low noise levels;
- Electric board unit with microprocessor and dedicated regulation;
- Free cooling realized inside the unit with large air passage and damper;
- Self-supporting frame, casing made of sandwich panels, thermal and acoustic insulation;
- ePM1 70% filters external air intake and Coarse class filters with low pressure loss for recirculation air.

POST HEATING/COOLING BATTERIES

ELECTRIC POST HEATING

POST EL SERIES

800 w - 3000 w



5509EL

- Batteries with electrically powered resistance with circular section;
- Integrated flow temperature regulation;
- Perfect air tightness thanks to the seals on the channel connection sections;
- Suitable battery for installation with pre-heating or post-heating functions;
- Single phase power supply;
- \varnothing 160 ÷ 315 mm connection.

HYDRAULIC POST HEATING

POST EC SERIES

2600 w - 12500 w



5509EC

- Batteries with hot water supply for heating, circular connection section;
- Terminal battery ideal for post-heating in combination with ventilation units for residential installations;
- \varnothing 125 ÷ 315 mm connection.

POST-HEATING AND COOLING

POST EF SERIES

2010 w - 13230 w

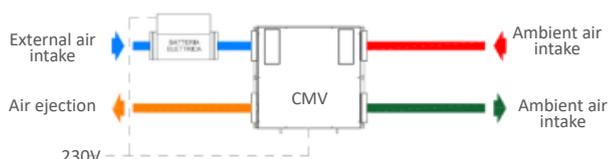


5509EF

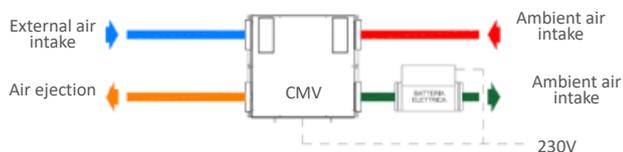
- Insulated batteries with cold and cold water supply for heating/cooling, circular connection section;
- Terminal battery ideal for post-heating and post-cooling in combination with ventilation units for residential installations;
- \varnothing 125 ÷ 315 mm connection.

BATTERIES WITH ELECTRICAL RESISTANCE

INSTALLATION: PRE-HEATING

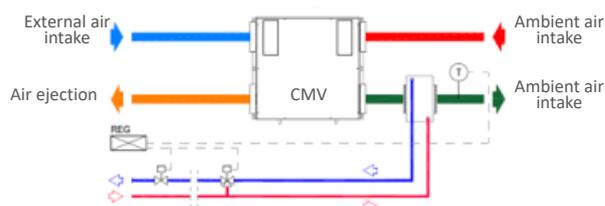


INSTALLATION: POST-HEATING

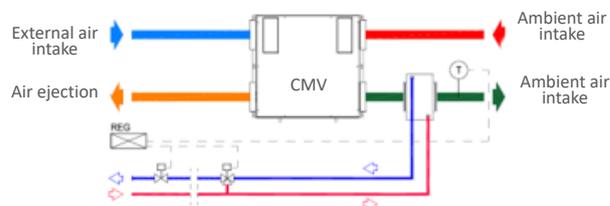


HYDRONIC BATTERY POWERED BY WATER

INSTALLATION: IN HEATING MODE



INSTALLATION IN COOLING MODE



In choosing the correct battery to meet the plant demand, it should always be considered that the heat transferred to the air flow is always of a sensitive type, not intervening in the change of the absolute amount of water vapor contained in the air. The water batteries can also be used for air conditioning, cooling the air flow from the recuperator of the fan unit and intended for distribution in local environments to be treated. In this case, the post cooling does not have the function of increasing environmental comfort but has an integrative function to the summer air conditioning, requiring proper sizing and the creation of an adequate condensate collection and drainage network.



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Rev. A - 06 2024