

Настенные фанкойлы FM

Технические характеристики

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FM High wall-mounted fan coil units

The FM fan coil series includes 3 models with cooling power ranging from 2,07 to 3,74 kW and 2 or 3-way integrated valve.

All models are equipped electronically controlled electric motor (BLDC) with integrated inverter, controlled by the PID logic electronic board and IR remote controller.

CONSTRUCTIVE FEATURES

CABINET

The ABS cabinet features attractive design, rounded shape, for every type of environment. The integrated air outlet is equipped with a motor driven flap that can sweep automatically or be positioned manually, and adjustable fins for a uniform distribution of air in the room.

The front panel is complete with display to show all the functions of the unit and the room temperature.

HEAT EXCHANGER

Up-rated heat exchanger made with copper piping and high efficiency aluminium fins with hydrophilic surface treatment, complete with air vent valve and facilitated emptying valve.

ON/OFF SOLENOID VALVE ASSEMBLY

All units are equipped with 2 or 3-way solenoid valve with electrothermal ON/OFF actuator (230 V) directly installed on the heat exchanger inside the unit and controlled by the microprocessor controller.

Hoses for the connection to the system facilitate the installation operations. Heat exchanger regulating heating operation according to the water temperature (from 38 °C to 75 °C).

FAN-DRIVE ASSEMBLY

Tangential fan directly coupled to an electronically controlled electric motor of synchronous brushless type (BLDC) controlled by inverter.

The great advantage of brushless motors is the significant reduction in power consumption, which reaches up to a 2/3 of that of asynchronous motors with the corresponding reduction in CO2 emissions.

The direct consequence is the reduction in the noise emission of the fan coil, which is proportional to the demands of the environment.

The DC Inverter technology allows to continuously adjust the air flow and heating capacity to the actual needs of the environment by considerably reducing the fluctuations in room temperature that are typical of step-by-step adjustments.

CONTROL SYSTEM

The microprocessor control system with infrared user interface enables the automatic control of the fan coil unit.

The main control specifications are:

- Selection of the cooling, heating, dehumidification mode or the automatic mode.
- PID control algorithm to regulate the BLDC fan: the control logic adapts the fan rpm to the difference between measured temperature and set temperature, integrate over time the deviation measured and adapt the rpm accordingly. The derivative logic analyzes the change speed thus assuring little variations.
- Water temperature reading and definition of minimum working temperatures
- Auxiliary contacts for signalling of heating or cooling mode
- Serial port for the implementation of master/slave networks
- Autorestart after power cut

Infrared remote controller with LCD display, to set all the functions of the fan coil:

- Switching on and off
- Temperature Set point
- Operating mode (cooling-dehumidification-ventilation- heating-automatic)
- Ventilation (automatic-maximum-medium-minimum)
- Switching on and off via Timer
- Air outlet flap sweep
- Clock

When, in a master/slave system, the fan coil with remote controller is the master unit, the settings are automatically sent to the slave units.

The flap sweep function is not applicable.

AIR FILTER

The filter is washable and can be easily removed for cleaning operations, by lifting the front panel of the cabinet.

ACCESSORIES

Available as an option is a wired wall pad with a large display, which can be used to control and set all the functions of each individual fan coil unit in master/slave systems.

WALLPAD supplied with cable for the connection to the fan coil unit.

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