

Ferrolì



JOLLY TOP

Fan coil with centrifugal fan





CHARACTERISTICS

FERROLI... TOP NOTCH products, always

JOLLY TOP I Series

New series of fan coil units with **centrifugal fan with** high efficiency DC brushless motor. Characterised by a maximum depth of 200 mm in the cased models and a particularly attractive aesthetic line, they are intended for residential heating and air conditioning applications. Available in 5 sizes with cooling capacities from **1.50 to 5.60 kW** and air flow rates from **255 to 1190 m³/h**. In the standard version they are proposed with a single 3-row coil to which can be combined as an accessory, in the case of 4-pipe systems, an additional 1-row coil. Available in the two versions, **VM** with casing and **VN** without shell for recessed applications. The units can be installed in both vertical and horizontal positions.

AVAILABLE VERSIONS

The range of centrifugal fan coil units includes two versions; each of them is available in different capacities.

VM - Fan coil unit with suction casing from below

Composed of a sheet metal casing, a supply grille with doors to access the control, if required, in thermoplastic material and a regenerable e air filter, placed on a metal frame housed on guides cut out in the lower part of the frame.

JOLLY TOP 3V Series

New series of fan coil units with **centrifugal fan with 3-speed AC motor**. Characterised by a maximum depth of 200 mm in the cased models and a particularly attractive aesthetic line, they are intended for residential heating and air conditioning applications. Available in 5 sizes with cooling capacities from **1.65 to 6.00 kW** and air flow rates from **255 to 1300 m³/h**. In the standard version they are proposed with a single 3-row coil to which can be combined as an accessory, in the case of 4-pipe systems, an additional 1-row coil.

Available in the two versions, **VM** with casing and **VN** without shell for recessed applications. The units can be installed in both vertical and horizontal positions.

VN - Fan coil unit without casing for recessed applications

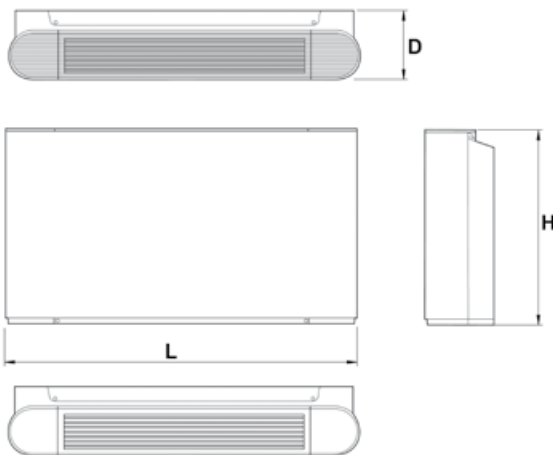
Without cover casing with regenerable air filter, placed on a metal frame housed on guides cut out in the lower part of the frame.





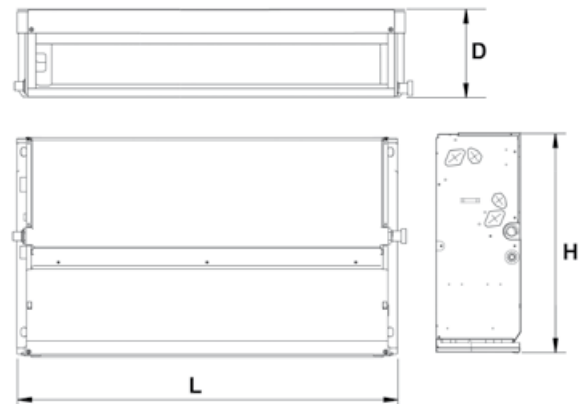
DIMENSIONS

VERSION VM



Mod.	150	250	350	500	700
L (mm)	790	1020	1240	1500	1360
H (mm)			495		
D (mm)			200		

VERSION VN



Mod.	150	250	350	500	700
L (mm)	637	867	1087	1307	1207
H (mm)			455		
D (mm)			200		

CONSTRUCTION FEATURES

Unit specifications

BEARING STRUCTURE

It is made of galvanized sheet metal of adequate thickness. There are slots at the rear to fix the unit. For models without a cover casing, there is a front mounted fan unit closing panel.

HEAT EXCHANGE COIL

3-row copper tube coil with aluminium fins blocked by mechanical expansion of the tubes. The manifolds in the upper part of the coil are equipped with air vents, while the lower part has a water drain tap*.

* The default hydraulic connection for the coil is on the LEFT. However IT IS POSSIBLE TO turn the coil and modify it to the RIGHT (see Installation Manual).

CONDENSATE DRIP TRAY

Made of thermoplastic material to avoid corrosion it allows the machine to be installed in either vertical or horizontal positions. In particular, in the horizontal installation, its shape makes it possible to collect the drops of condensate that form on the collectors during cold operation. The drain hole is made directly from the condensate drip tray and allows it to be removed during cold operation. It is present on both sides of the machine to facilitate the rotation of the coil.

FAN MOTOR (for version I)

The electric motor is a DC brushless type with continuous speed regulation at high efficiency and is directly coupled to the fans and

cushioned by elastic supports.

FAN MOTOR (for 3V version)

The electric motor, protected from possible overloads, has three speeds with running capacitor always on, directly coupled to the fans and cushioned by elastic supports.

CENTRIFUGAL FAN

The fan unit consists of double inlet centrifugal fans with blades developed in length to obtain high flow rate at low speed.

AIR FILTER

Easily removable and regenerable by simply washing with water.

COVER CASING (VM only)

Made of steel sheet part painted with epoxy powder to ensure high resistance to corrosion and part in anti-UV thermoplastic material to ensure resistance to ultraviolet rays. The air diffusion grilles and the door to access the control panel, both made of anti-UV thermoplastic material are inserted in the upper part.

HYDRAULIC CONNECTIONS

The connections, located on the left side, are of $\frac{3}{4}$ " gas female type. It is possible to rotate the coil, which is supplied as standard with left side connections, by moving the hydraulic connections to the right side.



AVAILABLE ACCESSORIES

The unit is equipped with a wide range of accessories designed for different purposes: Installation - Hydraulic - Ambient control. The tables below describe the possible combinations.

JOLLY TOP 3V

CONTROL ACCESSORIES							
MODEL		DESCRIPTION	150	250	350	500	700
CMR-N		Switch for remote wall installation Comes with: - Selector for Summer / Off / Winter function - Selector for Min / Med / Max fan speed	•	•	•	•	•
CM FC 3V		On-board unit switches They allow to: 1. Turn the unit on or off by selecting Hot-Cold mode 2. Select the fan speed	•	•	•	•	•
TE FC 3V		Thermostat with display for on-board installation Allows to: 1. Turn the unit on or off 2. Choose the hot-cold operating mode 3. Display the room temperature and set the setpoint 4. Select the fan speed 5. Set a timed on or off 6. Setting an ECO feature 7. Connect the unit to the modbus network for management via BMS 8. Obtain a "chiller call" or a "boiler call" via 1A/230 Vac clean contact	•	•	•	•	•
TES FC 3V		Thermostat with display for on-board installation (Includes water temperature control probe) Allows to: 1. Turn the unit on or off 2. Choose the hot-cold operating mode 3. Display the room temperature and set the setpoint 4. Select the fan speed 5. Set a timed on or off 6. Setting an ECO feature 7. Connect the unit to the modbus network for management via BMS 8. Obtain a "chiller call" or a "boiler call" via 1A/230 Vac clean contact	•	•	•	•	•
TERN-N		Advanced thermostat for remote wall installation Comes with: - Selector for Off/Summer/Winter/Auto function - Selector for Min/Med/Max/Auto fan speed - Knob to set the required temperature Note: The selected temperature refers to a value indicated on the knob and not to an offset in relation to a predetermined value. For the wall-hung version: - yellow LED: on when the thermostat is powered - green LED: on when the cooling function is on - red LED: on when the heating function is on	•	•	•	•	•
TC		Consent thermostat (only for switch CMR and CM)	•	•	•	•	•
MP		Wall-hung master control By means of the remote terminal, which can be installed on the wall and connected with three wires to the power module, it is possible to set all the operating parameters of the units. The display shows the room temperature (via an air probe integrated in the terminal) and the set-point, and features icons for indicating the state (on/off), operating mode (heating/cooling/auto), fan speed (1/2/3/auto). Through the 4 keys, it is therefore possible to change the state, the operating mode, the set-point, and the fan speed. The display also shows any operating errors. The terminal is used to control a single fan coil while, through a serial connection, it acts as a master terminal and is able to manage a zone of fan coils (maximum 16).	•	•	•	•	•
3V		Power Module Module to be installed on each unit, it is able to activate the three fan speeds as well as any hot and cold valves. Through a micro-switch, it is able to manage different system configurations, 2 or 4 pipes or solutions with electric resistance integration. It manages heating and cooling and accepts presence status inputs of the place to be air-conditioned. It receives the settings directly from Master controller or from a serial connection with other units belonging to a single group of terminals with Master Slave setting.	•	•	•	•	•



NOTICE FOR SALES AGENTS:

With a view to constantly improve its production range and customer satisfaction levels, the Company hereby specifies that aesthetic and/or dimensional features, specifications and accessories may be subject to changes.

Please place the utmost care to ensure all technical and/or sales documents (lists, catalogues, brochures, etc.) provided to the final Customer are updated according to the latest edition.

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