

FORCLIMA FC

"FC MODELS" CHARACTERISTICS & PRODUCTS' DETAILS

DESCRIPTION

The new **FORCLIMA FC** ducting units are designed for providing balanced ventilation to public places such as pubs, restaurants, canteen, hairdressers, changing-rooms, swimming-pools, meeting-rooms, offices etc. and also for big residential environments.

All the models are provided with two fans, one supplies with fresh air from outside to the room and the other extracts the internal moist air. Before getting out, the stale air, which is full of odours, smells and house dust mite, goes through the heat exchanger. This exchanger recovers heat from the outgoing air and transfers it to the incoming fresh air. So that, there is a continuous exchange of air in the environment without any waste of energy and having a money saving.

STRUCTURE

All the units consist of an external aluminium main structure, with plastic corners to be driven without rivet and of aluminium panels protected by a PVC film. The access side for the maintenance is provided with safe lock.

The particular internal bulk insulation, sound insulation and sound absorption (A1 Class), make the unit extremely silent and good for an external installation. The compact dimensions make the unit ideal for the installation in a false ceiling. The unit is also equipped with an inox steel box for gathering the condensation.

All the units are made with recycling materials.

HEAT EXCHANGER

The new aluminium heat exchanger, with a particular design and final PVC parts, allows to obtain extraordinary levels of output between 50% and 80% Heat Recovery.

In the bigger models, two or more exchangers are installed in-line in order to have an easily extraction. Since the heat exchangers are also put into lines, they are easily extractable for a better maintenance.

FILTERS

The unit is provided with a synthetic fiber filter with a variable density: this characteristic improves the efficiency and the capacity of air absorption of the air borne impurities on the environments. These filters are easily extractable for their cleaning. In the bigger units there are more filters in order to have a manageable extraction.

FANS

The installed impellers are in IP55 class, with double intake and low energy absorption. The **FC PLUS** model is provided with particular INVERTER fans that give extraordinary advantages either on the efficiency side either on the versatility side. It is possible to fix an airflow volume so that the fans adjust themselves and can maintain (between their working parameters) the airflow stable independently from the load conditions on the ducting or from the filters obstructions. This gives to the technical designers a great power and then to the installer a wide choice on the installation: tubes, diffusers, grilles, air valves etc.

This special INVERTER regulation system allows to achieve a great energy saving about 30-40% and a minor noisiness compared to the normal speed controllers. Combining accessories such as continuous speed controller, timer, humidity sensor, smoke sensor etc. there is a complete control system.

INSTALLATION

The units are designed for mounting at 2,50mt high minimum from the floor, inside a false ceiling: they are provided with brackets to combine to the main structure directly. The brackets can also be installed vertically upon the supply of the box for gathering the condensation. For this type of installation the box is supplied separately. During the installation of the bigger units it is advisable to use support bars.

The units are already predisposed for the combination via rectangular ducting. When circular canalizations are used, it is available a specific reduction kit, as ancillary equipment. A non volatile kit is available for the side that can remain eventually open towards outside.

MAINTENANCE

All models need to be cleaned periodically as follows:

- Clean and change the filters;
- Clean the heat exchanger from deposit of dust and grease.

Since either the filters and the exchanger are put on lines, they are easily extractable through the side panel.

Note. We would remind that a regular maintenance is essential in order to ensure that the unit will continue to operate at its maximum efficiency.

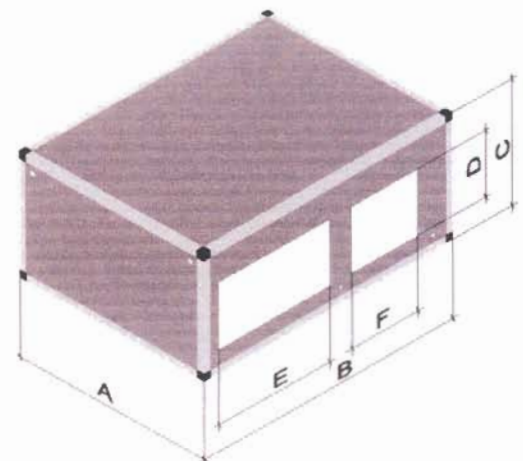
"FC MODELS" TECHNICAL CHARACTERISTICS

Model	Air flow	Efficiency	Static pressure (Pa) Speed M ³ /h							
			200	180	150	120	100	80	60	40
FC 650	400 – 1200	50-80%		400	500	650	800	950	1100	1200
FC 1000	900 – 1600		900	1000	1100	1200	1300	1400	1500	1600
FC 2000	1800 – 2600		1800	2000	2200	2350	2450	2550	2600	
FC 3000	2500 – 3300		2500	2650	2800	3000	3100	3200	3300	
FC 4500	4000 – 5000		4000	4300	4500	4800	5000	5100		

FC 1500 PLUS	1000-2500	50-80%	480	320	200	120
			1000	1500	2000	2500

All the units are built in horizontal version. The FC 1500PLUS models are endowed with a regulator for speed control.

Model	Entry of power W	Weight Kg.	dB(A)* min. max.
FC 650	300 M	60	33 – 43
FC 1000	1100 M	65	39 – 50
FC 1500 PLUS	100-1500 M	80	24 – 58
FC 2000	1100 M	75	37 – 49
FC 3000	1200 M	85	41 – 50
FC 4500	1500 T	130	45 – 52



M=220.1 T=380.3

* Noisiness measured in closed room at 2,5 mt. from the unit with insulated sent and resumption ducting. The real levels of noisiness can differ from those expressed in accordance with the environmental conditions and with the present noisiness leading from possible resonances.

Dimensions	FC 650	FC 1000	FC 1500PLUS	FC 2000	FC 3000	FC 4500
A	828	828	828	828	828	1100
B	808	808	1122	1224	1634	1455
C	506	506	506	506	506	930
D	262	262	262	262	262	300M 600R
E	300	300	500	600	800	600
F	232	232	298	298	298	330

Attention: All the measures are indicative and susceptible of variations without warning.

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