

# FORCLIMA FCE

## "FCE" CHARACTERISTICS & PRODUCTS' DETAILS

### DESCRIPTION

The new **FORCLIMA "FCE"** ducted unit is designed for providing balanced ventilation in public places such as pubs, restaurants, canteen, hairdressers, changing-rooms, swimming-pools, meeting-rooms, offices, etc. and also for big residential areas.

The unit is 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 the 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

The unit consists 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 installations in a false ceiling. The unit is also equipped with an inox steel box for gathering the condensation with *no-cross contamination*.

**All the units are made with recycling materials.**

### HEAT EXCANGER

The new aluminium heat exchanger, with a particular design and final parts in PVC, allows obtaining extraordinary levels of output over 50% Heat Recovery. 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 fibres filter with a variable density: this characteristic improves the efficiency and the capacity of absorption of the airborne impurities in the environment. In the bigger units there are more filters in order to have a manageable extraction. These filters are easily extractable for their cleaning.

### FANS

The unit is provided with special impellers, with double intake and low energy absorption. It is possible to regulate the fan speed through a continuous speed controller (optional).

### INSTALLATION

The unit is designed for mounting at minimum 2,50mt high from the floor, inside a false ceiling: it is 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. When a bigger unit is installed, it is advisable to use support bars.

The unit is already arranged for the combination via rectangular duct. A specific kit of reductions is available, as ancillary equipment, when circular duct is used. Other special ancillary equipments are available for the side that can remain eventually *open towards outside*.

### MAINTENANCE

All the models need to be cleaned periodically as follows:

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

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.*

## "FCE" TECHNICAL CHARACTERISTICS

Model	Air Flow	Efficiency over 50%	Static pressure (Pa) at the maximum Speed M <sup>3</sup> /h							
			190	180	150	120	100	80	60	40
FCE 1000	500 – 1300		500	600	750	900	1000	1100	1200	1300
FCE 2000	1500 – 2600		1500	1700	2000	2200	2300	2400	2500	2600
FCE 3000	2500 – 3300		2500	2650	2800	2900	3000	3100	3200	3300

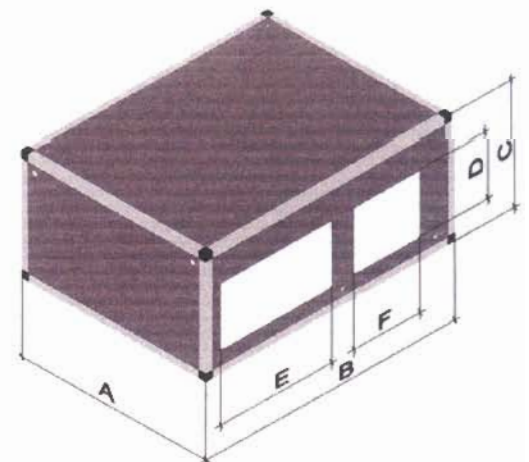
All the units are built in horizontal version.

Model	Entry of power W	Weight Kg.	dB(A) * min. max.
FCE 1000	600 M	60	39 – 50
FCE 2000	840 M	70	37 – 49
FCE 3000	1100 M	85	41 – 50

M=220.1 50Hz

\*Noise noticed in closed room at 3 mt. from the unit with insulated sent and resumption ducts. 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	FCE 1000	FCE 2000	FCE 3000
<b>A</b>	828	828	828
<b>B</b>	808	1122	1224
<b>C</b>	506	506	506
<b>D</b>	200M 262R	262	262
<b>E</b>	300	500	600
<b>F</b>	232	298	298



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

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