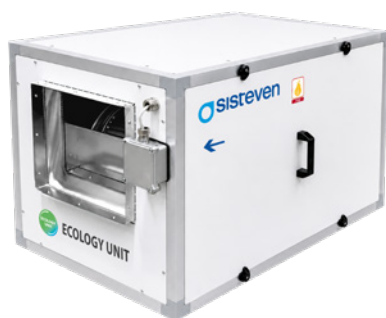




CAD-FE



Ecology unit with direct drive motor, certified for 400 °C/2h, double insulating wall, double inlet, and high-efficiency electrostatic filters

Ecology unit with high-efficiency electrostatic filters certified F400, equipped with a double inlet direct drive fan, acoustically insulated with double insulating wall, and with the possibility of adding an activated carbon filter stage.

Characteristics:

- Forward curved impeller in galvanised sheet steel.
- Structure in aluminum profiles and pre-lacquered outer sheet.
- 25 mm rockwool insulation in panels.
- Inspection hatch for maintenance.
- Access panels for filter removal for maintenance.
- Grease-collection tray.
- Integrated connection box.
- High efficiency (95% ePM1) 230 V (+/-7.5%) 50 Hz electrostatic filter.
- Ventilation system with filtration approved according to the EN 12101-3 standard.
- Maximum temperature of air to be carried: S1 continuous operation -20 °C +45 °C. S2 operation: 400 °C/2h.

Motor:

- Class H motors for S1 continuous operation and S2 emergency use. With ball bearings, IP55 protection and 1 or 2 speeds, depending on model.
- Single-phase 230 V 50 Hz and three-phase 230/400 V 50 Hz (up to 3 kW) and 400/690 V 50 Hz (powers greater than 3 kW).
- Working temperature: -20 °C +50 °C.

Filtration stages:

- Electrostatic filter: Removes medium and small ionized grease particles.
- Activated carbon filter (optional): Removes low concentrations of odour particles.
- Maximum temperature of air to be carried: -30 °C +45 °C.

On request:

- Particle sensor for automatic control.

KF-CONTROL:

- Motor speed control by manual selection or by optional external sensors (SP-PM2.5+VOC).
- Integrated control system compatible with MODBUS RTU.
- Built-in temperature sensor.
- Filter status check.
- WiFi.

Filter characteristics

ELECTROSTATIC FILTER

ePM1

	95%		90%	80%	70%
Filtration class EN 779	-	-	F9	F8	F7
Air speed (m/s)	1	2	2.5	3	4
Air flow capacity (%)	40	50	65	75	100
Pressure drop (Pa)	10	17	24	37	64

Technical characteristics

Model	Nominal speed (r/min)	Maximum admissible current (A)		Installed power max. (kW)	Maximum filter airflow (m³/h)	Maximum flow rate (m³/h)		Sound pressure level¹ dB(A) Inlet	Approx. weight (Kg)	
		230V	400V			FE	FE + FCA		FE	FE + FCA
CAD-FE-10/10-4M-0.75	1410	4.10		0.55	380	3025	2650	57	105	110
CAD-FE-12/12-6T-1.5 IE3	945	6.40	3.70	1.10	820	4845	4095	55	140	145
CAD-FE-15/15-6T-3 IE3	950	10.30	5.90	2.20	1300	8225	8225	59	225	230

1. Maximum airflow at 100% filter efficiency

2. The noise level values are pressures in dB(A) measured at a distance of 3 metres in a free field.



Erp. (Energy Related Products)

Information on Directive 2009/125/EC can be downloaded from the SISTEVEN website or the Selector programme.

Acoustic characteristics

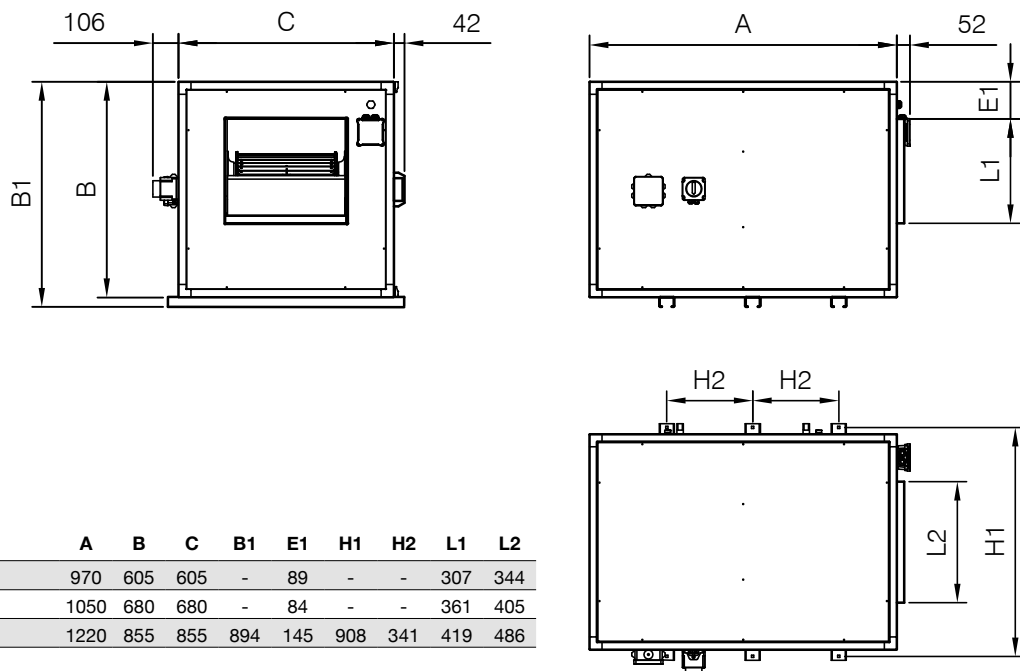
The values given are obtained under laboratory conditions according to ISO 3744.

Sound power spectrum Lw(A) in dB(A) per Hz frequency band

Values measured at inlet with maximum flow rate

	63	125	250	500	1000	2000	4000	8000
CAD-FE-10/10	54	69	73	72	71	68	68	58
CAD-FE-12/12	52	67	71	70	69	66	66	56
CAD-FE-15/15	63	72	74	76	71	70	64	55

Dimensions mm



	A	B	C	B1	E1	H1	H2	L1	L2
CAD-FE-10/10	970	605	605	-	89	-	-	307	344
CAD-FE-12/12	1050	680	680	-	84	-	-	361	405
CAD-FE-15/15	1220	855	855	894	145	908	341	419	486

Characteristic curves

Q= Flow rate in m³/h, m³/s and cfm

Pe= Static pressure in mm H₂O, Pa and inwg

