

CJBDT/ALS-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 with certification no.: 2797 CPR 840445.
- 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.

Order code

CJBDT/ALS-FE	—	12/12	—	6	—	M	—	3	—	FCA
↓		↓		↓		↓		↓		↓
CJBDT/ALS-FE: Ecology unit with direct drive motor, certified for 400 °C/2h, double insulating wall, double inlet, and high-efficiency electrostatic filters		Impeller size in inches		Number of motor poles 4=1400 r/min 50 Hz 6=900 r/min 50 Hz		M = Single-phase T = Three-phase		Motor power (HP)		Optional: FCA: Electrostatic filter

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	Speed (r/min)	Maximum admissible current (A)		Installed power max. (kW)	Maximum filter airflow ¹ (m³/h)	Maximum flow rate (m³/h)		Sound pressure level ² dB(A)	Approx. weight (Kg)	
		230V	400V			FE	FE + FCA		FE	FE + FCA
CJBDT/ALS-FE-10/10-4M-0.75	1410	4.10		0.55	380	3025	2650	57	105	110
CJBDT/ALS-FE-12/12-6T-1.5 IE3	945	6.40	3.70	1.10	820	4845	4095	55	140	145
CJBDT/ALS-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. Sound pressure level in dB(A) at a distance of 3 m and at maximum flow rate.



Erp. (Energy Related Products)

Information on Directive 2009/125/EC can be downloaded from the SODECA website or the QuickFan selector programme.

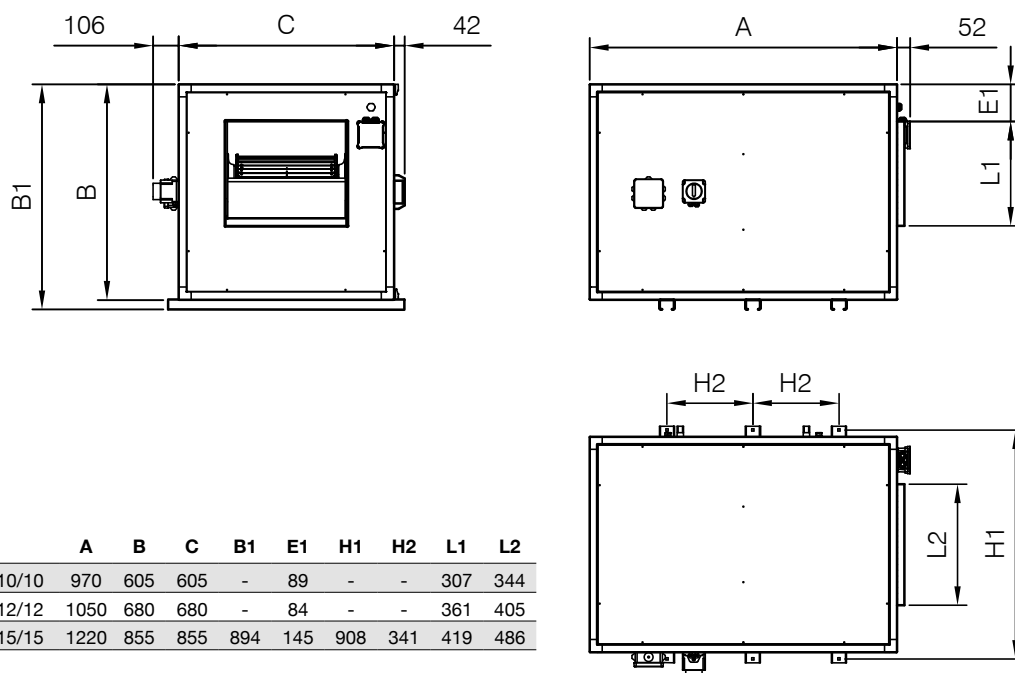
Acoustic characteristics

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

Sound power spectrum L_w(A) in dB(A) per Hz frequency band
Values measured at inlet with maximum velocity and flow rate

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

Dimensions mm



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

Accessories



Characteristic curves

Q= Flow rate in m³/h, m³/s and cfm

Pe= Static pressure in mm H₂O, Pa and inWG

