

# CJBDT/ALS-FE



**400 °C/2h direct motor extractor fan units with double insulating wall, double inlet and high-efficiency electrostatic filters**



Extraction units with F400 certified high-efficiency electrostatic filters, equipped with a double inlet impeller with direct motor, acoustically insulated with double insulating wall and with the possibility of adding a stage of active carbon filters.

#### Characteristics:

- Forward curved impeller in galvanised sheet steel.
- Structure in aluminum profiles and pre-lacquered outer sheet.
- 25 mm rockwool insulation in panels.
- Maintenance inspection door.
- 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:

- Circular outlet.
  - Fans with vertical outlet.
  - Particle sensor for automatic control.
- BOXKITCHEN:**
- Motor speed control by manual selection or by optional external sensors (SI-PM2.5+VOC).
  - Integrated control system compatible with MODBUS RTU.
  - Built-in temperature sensor.
  - Filters condition check.
  - WiFi.

## Order code

<b>CJBDT/ALS-FE</b>	<b>-</b>	<b>12/12</b>	<b>-</b>	<b>6</b>	<b>M</b>	<b>-</b>	<b>3</b>	<b>-</b>	<b>FCA</b>
↓		↓		↓	↓		↓		↓
CJBDT/ALS-FE: 400 °C/2h direct motor extractor fan units with 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 flow rate (m <sup>3</sup> /h)		Sound pressure level <sup>1</sup> dB(A) Inlet	Approx. weight (Kg)	
		230V	400V		FE	FE + FCA		FE	FE + FCA
CJBDT/ALS-FE-10/10-4M-0.75	1410	4.10		0.55	3025	2650	57	105	110
CJBDT/ALS-FE-12/12-6T-1.5 IE3	945	6.40	3.70	1.10	4845	4095	55	140	145
CJBDT/ALS-FE-15/15-6T-3 IE3	950	10.30	5.90	2.20	8225	8225	59	225	230

1. 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.

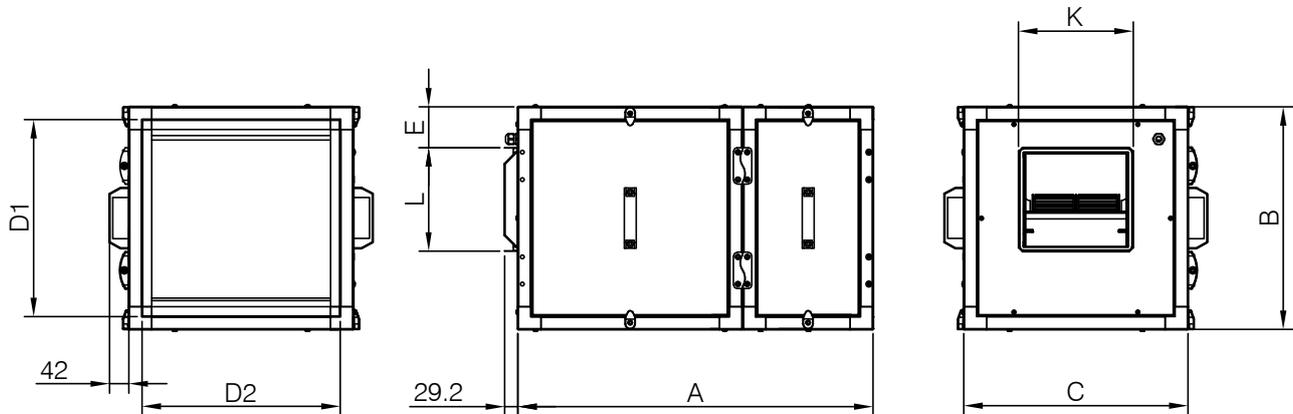
## Acoustic characteristics

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

Sound power spectrum L<sub>w</sub>(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	D1	D2	E	K	L
CJBDT/ALS-FE-10/10	1115	605	605	545	545	88	343	306
CJBDT/ALS-FE-12/12	1190	680	680	618	618	84	404	360
CJBDT/ALS-FE-15/15	1525	855	855	793	793	145	486	419

## Accessories



SI-PM2.5+VOC



TEJ



VIS



BOXKITCHEN

### Characteristic curves

Q= Flow rate in m<sup>3</sup>/h, m<sup>3</sup>/s and cfm

Pe= Static pressure in mm H<sub>2</sub>O, Pa and inwg

