

CONTRA-FOIL contrarotating cased axial flow fans (aluminium impellers)

TCBBX2/4-500/L (230V50HZ)





Range of cylindrical cased axial fans fitted with aluminium impellers and manufactured from high grade rolled galvanised steel and protected against corrosion by cataforesis primer and black polyester paint finish.

Fited with 2 contra rotating complementary impellers manufactured from die-cast aluminium.

All models are supplied with pre-wired wiring junction box located on the outside of the fan casing for easy wiring access. Available with single or three phase 4 poles motors.

Motors

All the motors are IP65, Class F insulation (1), equipped with thermal protection.

Single phase motors are variable voltage (Excepted TCBBX2/4-630).

Three phase motors suitable for inverter control.

Electrical supplies:

Single phase 230V-50Hz (Capacitor located inside the wiring terminal box)

Three phase 230/400V-50Hz.

(1) Working temperatures from -40 LC up to 70 C.

+ Attributes



pressureRolled steel casings and
Contra-rotating system with motor support protected by two complementary impellers cataforesis primer and black allowing the duplication of the polyester paint finish. pressure with the same air volume Stainless steel screws.



Wiring terminal box with cable balanced



Impeller dynamically balanced, according to ISO 1940 standard, giving

vibration free operation.

+ Acoustic characteristics

wA) 48 78 87 85 87 81 74 67 92 A @ 1.5m 33 63 72 70 72 66 59 52 77 LwA) 65 76 87 88 90 84 77 70 94
LwA) 65 76 87 88 90 84 77 70 94
pA @ 1.5m 50 61 72 73 75 69 62 55 79

+ Technical characteristics

CONSTRUCTION

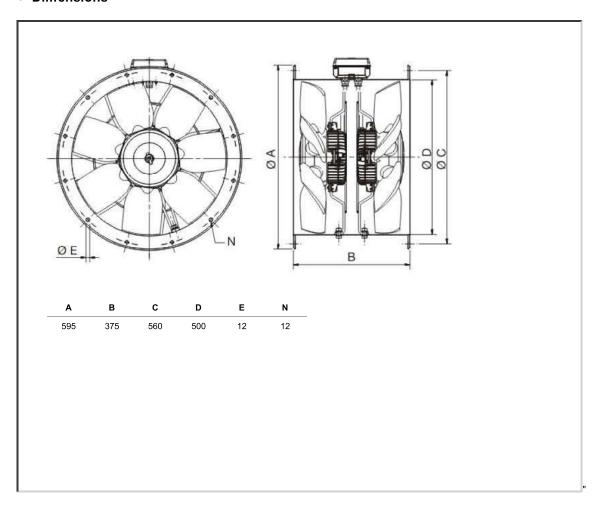
Diameter 500 Fan size 500 Blades 7

MOTOR CHARACTERISTICS

Number of poles 4

Voltage 1-230V-50Hz
Maximum absorbed current 7.3 A
IP Rating IP65
Motor insulation class F

+ Dimensions



+ Curve - Example of selection

PERFORMANCE CURVES TCBBx2 / TCBTx2

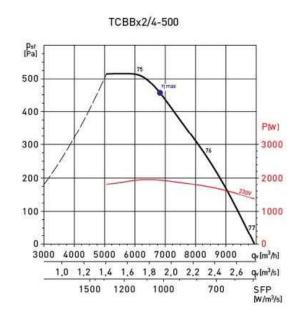
- q_v: Air volume in m³/h and m³/s.
- psr: Static pressure in Pa.
- SFP: Specific fan power in W/m³/s.
- P: Input power in W.
- Measurement category: D.
- Efficiency category: total.
- Fan efficiency without VSD.
- Air flow data in accordance with ISO 5801.
- Sound pressure level dB(A), measured in a free field distance equal to 3 times the diameter, with a minimum of 1,5 m.

MC Measurement category EC Efficiency category

VSD Speed control: supplied with the fan

SR Specific ratio
η[%] Efficiency
N Efficiency grade
[kW] Absorbed power
[m³/h] Air volume
[Pa] Static pressure
[RPM] Speed

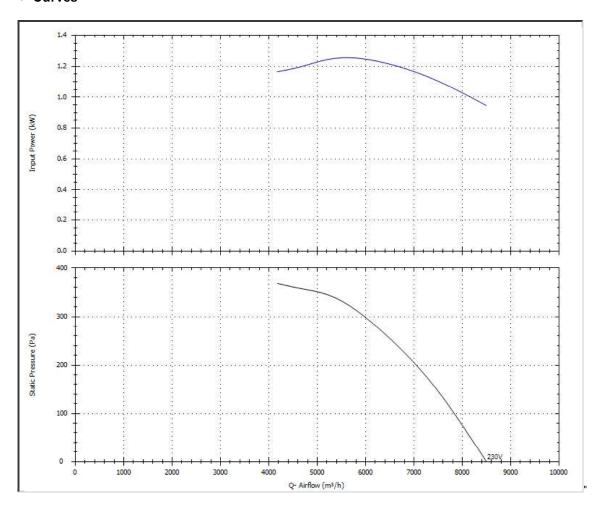
EXAMPLE CURVE



MC*	EC*	VSD*	SR*	n[%]*	N*	[kW]	[m³/h]	[Pa]	[RPM]
D	Total	No	1	50,0	54,5	1,939	6832	514	1393

^{*} See example curve.

+ Curves



+ Mounting Accessories



