



Cylindrical cased axial flow fans

COMPACT TCBB / TCBT Series - Aluminium Impellers

TCBB/TCBT

Range of cylindrical cased axial flow 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.

All models are supplied with pre-wired wiring junction box located on the outside of the fan casing for easy wiring access.

Available, depending upon the model, with single or three phase motors in 2, 4 or 6 poles.

Motors

Single phase motor (TCBB) or three phase motor (TCBT).

Models 250, 315, 355 and 400: External rotor motor, IP44, Class F, thermal protection, working temperature from -40°C to +40°C.

Models 450, 500, 560, 630 and 6/710: IP65, Class F, thermal protection, working temperature from -40°C to +70°C.

Models 4/710 and 800: IP55, Class F, working temperature from -40°C to +40°C.



All motors are speed controllable by autotransformer except models /4-560H, /4-630, 710 and T/800.

Three phase motors are speed controllable by inverter.

Electrical supplies: Single phase 230V-50Hz.

(Capacitor located inside the wiring terminal box).

Three phase 230/400V-50Hz or 400V-50Hz.

(See characteristic chart).

Additional information

Standard air direction: form (B)

configuration

(impeller over motor).

On request

Air direction: form (A) configuration (motor over impeller).

From Ø450 to Ø800, three phase motors 2 speed, 4/8 poles.

ATEX

ATEX versions TCBT On request, explosion proof versions in accordance with ATEX Directive, for 3 phase models. For ambient working temperatures: From -20°C to +55°C: -models TCBT/4-315 to 630mm -models TCBT/6-355 to 710mm From -20°C to +40°C: -models TCBT/4-710 to 800mm -models TCBT/6-800mm Motors IP55 Class F - ATEX Flameproof - Gas: In standard ATEX version flameproof motors are without thermal protection. If used with frequency inverter, flameproof motors with a PTC-type thermal protection must be specified at order. For models TCBT/4-710 and 800mm models 2G Exd IIB T4 models 2G Exd IIB+H2 T4 (with Ex d IIC T4 motor) - ATEX Increased safety - Gas: Not available: TCBT/2-250/H 400V-50Hz TCBT/4-250/H 400V-50Hz TCBT/6-355/H 400V-50Hz TCBT/6-400/H 400V-50Hz Available for TCBT/6-400/H 230/400V-50Hz and larger sizes. models 2G Exe II T3 - ATEX - Dust: In standard ATEX version, ATEX motors for dust are without thermal protection. If used with frequency inverter, ATEX motors for dust with a PTC-type thermal protection must be specified at order. For models TCBT/4-710 and 800mm Suspended flammable particles and non-conductive dust: II 3D Ex tc IIB T125°C Conductive dust: II 3D Ex tc IIIC T125°C (with IP65 motor) To select TCBT ATEX refer to performance curves, or Easyvent. Note electrical data may vary for ATEX motors.

Attributes

**Corrosion resistance**

Rolled steel casings and motor support protected by cataforesis primer and black polyester paint finish.
Stainless steel screws.

**Terminal box**

Wiring terminal box with cable gland PG-11 (except ATEX models).

**Impeller dynamically balanced**

Impellers are dynamically balanced, according to ISO 1940 standard, giving vibration free operation.



Configuration for models /4-710 and 800.



**Constructive configuration models 250, 315, 355 and 400.
excepted 6-355, 6-400 and ATEX).**