



CYLINDRICAL CASED AXIAL FLOW FANS

COMPACT Series TCBB / TCBT (aluminium impellers)



IP65⁽¹⁾

Explosion proof versions in accordance to ATEX Directive for three phase models:
- Increase safety Ex II2G EExII T3 (except 2 pole motors and 250 models).
- Flame proof only for /4-710 and 800 models, $\text{Ex II2G EExd IIB T5}$ or Ex EExd IIC T4 .
Working temperatures up to 40°C.

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.**

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, 6 or 8 poles.

Motors

All the motors are **IP65⁽¹⁾**, **Class F** insulation ⁽²⁾, equipped with thermal protection.

All motors are speed controllable except 2 poles and /4-560, /4-630, /4-710 and 800 models.

Electrical supplies:

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

Three phase 230/400V-50Hz or 400V-50Hz (See characteristic chart).

⁽¹⁾ 2/315/H, 2/355/H, /4-710 and 800 models are IP55.

⁽²⁾ Working temperatures from -40°C up to 70°C (except /2-315/H, /2-355/H, /4-710 and 800 models: suitable for usage in environments up to +40°C).

Additional Information

Standard air direction: form (B) configuration (Impeller over Motor); form (A) configuration (Motor over Impeller) for /2-315/L, /2-315/G, /2-355/J and /2-355/I models.

On request

Air direction: form (A) configuration (Motor over Impeller).

Three phase motors suitable for inverter control (E22 version).

Two speed motors (4/8 poles).

APPLICATIONS



Warehouses



Workshops



Commercial premises



Car parks

Corrosion resistance



Rollled 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

Impeller dynamically balanced



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

Configuration for /4-710 and 800 models





CYLINDRICAL CASED AXIAL FLOW FANS

COMPACT series TCFB / TCFT (plastic impellers)



IP65

Range of cylindrical cased axial fans fitted with plastic 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, 6 or 8 poles .

Motors

All the motors are **IP65** (1), **Class F** insulation (2), equipped with **thermal protection.**

All motors are speed controllable except 2 poles and /4-560 and /4-630 models.

Electrical supplies:

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

Three phase 230/400V-50Hz or 400V-50Hz (See characteristic chart).

(1) Working temperatures from -40°C up to 70°C (except /2-315/H, /2-355/H, /4-710 and 800 models: suitable for usage in environments up to +40°C).

Additional Information

Standard air direction: form (B) configuration (Impeller over Motor).

On request

Air direction: form (A) configuration (Motor over Impeller).

Three phase motors suitable for inverter control (E22 version).

APPLICATIONS



Warehouses



Workshops



Commercial premises



Car Parks

Corrosion resistance



Rollled 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

Impeller dynamically balanced



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

TCFB/TCFT

Cylindrical cased axial flow fans

Reference

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|----|---|----|---|---|---|----|--|--|--|
| T | C | B | T | / | 4 | - | 4 | 0 | 0 | / | H | - | B | | 4 | 0 | 0 | V | 5 | 0 | Hz | | | |
| 1 | 2 | 3 | 4 | | 5 | | 6 | | 7 | | 8 | | 9 | | 10 | | 11 | | | | | | | |

- | | | |
|--|--|---|
| <p>1 - T: Compact Plate Axial Fan</p> <p>2 - C: Series designation</p> <p>3 - Impeller Type: F: Ø 250-Ø 630 Fixed blade plastic impeller B: Ø 250-Ø 400 Fixed blade aluminium impeller Ø 450-Ø 800 Adjustable blade aluminium impeller</p> <p>4 - Type of supply: B: Single phase T: Three phase</p> | <p>5 - Number of poles: 2: (approx. 2800 r.p.m. - 50 Hz) 4: (approx. 1400 r.p.m. - 50 Hz) 6: (approx. 900 r.p.m. - 50 Hz) 8: (approx. 700 r.p.m. - 50 Hz)</p> <p>6 - : Nominal Diameter of Fan. (mm).</p> <p>7 - : Pitch Angle</p> <p>8 - Direction of Air: A: Motor over Impeller B: Impeller over Motor</p> <p>9 - Voltage: 230 V (Single Phase) 230/400 V (Three Phase) 400 V (Three Phase)</p> | <p>10 - Frequency of Service: 50 Hz 60 Hz</p> <p>11 - Special versions: 2 V: Two Speed Motors 4/8 poles of motor for models from Ø 450 up to Ø 800 mm. 6/12 poles of motor for models from Ø 710 up to Ø 800 mm. C: Condensation drain holes on motor. EX: Explosion proof and flame proof versions.</p> |
|--|--|---|

Supply voltages and frequencies



| Mains supply voltage | Motor type | Connection | Speed |
|---------------------------------------|---------------|--------------------|-------|
| SINGLE PHASE 220V 50Hz, 240V 50Hz | 230V 50Hz | See wiring diagram | High |
| THREE PHASE 220V 50Hz 240V 50Hz | 230/400V 50Hz | \triangle | High |
| | | λ | Low* |
| THREE PHASE 380V 50Hz 415V 50Hz | 230/400V 50Hz | λ | High |
| | 400V 50Hz | \triangle | High |
| | | λ | Low* |

* From sizes 450 up to 630/L diameter.

Acoustic characteristics

The sound levels -NPS- shown in the technical characteristic chart, correspond to the value of sound pressure dB(A), measured in free field conditions at a distance equivalent to three times the diameter of the impeller with a minimum of 1.5 meters.

Sound power level spectrum in dB(A) at the corresponding octave band average frequencies in Hz.

| LwA ASP QMAX | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
|--------------|----|-----|-----|-----|------|------|------|------|
| 2-250/H | 50 | 61 | 68 | 73 | 74 | 74 | 67 | 58 |
| 2-315/H | 51 | 62 | 82 | 77 | 85 | 85 | 79 | 71 |
| 2-355/H | 58 | 63 | 87 | 83 | 89 | 92 | 86 | 79 |

| LwA ASP QMAX | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
|--------------|----|-----|-----|-----|------|------|------|------|
| 4-250/H | 44 | 50 | 57 | 58 | 60 | 59 | 53 | 42 |
| 4-315/H | 37 | 47 | 57 | 61 | 66 | 63 | 57 | 48 |
| 4-355/H | 39 | 59 | 56 | 65 | 70 | 66 | 61 | 52 |
| 4-400/H | 41 | 62 | 58 | 67 | 74 | 70 | 66 | 43 |
| 4-450/H | 41 | 57 | 60 | 69 | 73 | 71 | 65 | 55 |
| 4-500/H | 44 | 61 | 64 | 73 | 76 | 75 | 68 | 59 |
| 4-560/L | 44 | 60 | 66 | 75 | 78 | 76 | 71 | 62 |
| 4-560/H | 46 | 61 | 67 | 76 | 80 | 78 | 72 | 64 |
| 4-630/L | 46 | 60 | 69 | 78 | 82 | 80 | 75 | 67 |
| 4-630/H | 47 | 61 | 70 | 79 | 83 | 81 | 76 | 68 |
| 4-710/L | 52 | 72 | 79 | 84 | 86 | 83 | 78 | 70 |
| 4-710/H | 56 | 76 | 83 | 88 | 90 | 86 | 81 | 74 |
| 4-800/L | 64 | 81 | 92 | 95 | 96 | 90 | 83 | 74 |
| 4-800/K | 67 | 83 | 94 | 98 | 98 | 92 | 85 | 76 |
| 4-800/G | 69 | 85 | 96 | 99 | 100 | 94 | 87 | 78 |
| 4-800/H | 71 | 87 | 99 | 102 | 102 | 97 | 90 | 81 |

| LwA ASP QMAX | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
|--------------|----|-----|-----|-----|------|------|------|------|
| 6-355/H | 39 | 45 | 46 | 52 | 53 | 54 | 48 | 37 |
| 6-400/H | 34 | 46 | 49 | 59 | 60 | 60 | 53 | 41 |
| 6-450/H | 32 | 48 | 52 | 60 | 64 | 62 | 56 | 47 |
| 6-500/H | 36 | 52 | 55 | 64 | 68 | 66 | 60 | 50 |
| 6-560/L | 36 | 51 | 57 | 66 | 70 | 68 | 62 | 54 |
| 6-560/H | 38 | 53 | 59 | 68 | 72 | 70 | 64 | 56 |
| 6-630/L | 37 | 51 | 60 | 69 | 73 | 71 | 65 | 58 |
| 6-630/H | 39 | 53 | 62 | 71 | 75 | 72 | 67 | 60 |
| 6-710/L | 45 | 66 | 72 | 78 | 79 | 76 | 71 | 64 |
| 6-710/H | 48 | 68 | 75 | 81 | 82 | 79 | 74 | 67 |
| 6-800/L | 58 | 74 | 86 | 89 | 89 | 84 | 77 | 68 |
| 6-800/K | 60 | 76 | 88 | 91 | 91 | 85 | 78 | 69 |
| 6-800/G | 61 | 77 | 88 | 92 | 92 | 86 | 79 | 70 |
| 6-800/H | 62 | 79 | 90 | 93 | 94 | 88 | 81 | 72 |

| LwA ASP QMAX | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
|--------------|----|-----|-----|-----|------|------|------|------|
| 8-450/H | 38 | 41 | 47 | 52 | 58 | 55 | 47 | 37 |
| 8-500/H | 41 | 43 | 50 | 55 | 61 | 58 | 49 | 39 |
| 8-560/H | 44 | 47 | 53 | 58 | 64 | 61 | 53 | 43 |
| 8-630/H | 43 | 49 | 59 | 67 | 71 | 67 | 58 | 50 |
| 8-710/H | 42 | 62 | 69 | 74 | 76 | 72 | 67 | 60 |
| 8-800/L | 54 | 70 | 81 | 85 | 85 | 79 | 72 | 63 |
| 8-800/K | 54 | 71 | 82 | 85 | 86 | 80 | 73 | 64 |
| 8-800/G | 55 | 72 | 83 | 86 | 86 | 81 | 74 | 65 |
| 8-800/H | 56 | 72 | 84 | 87 | 87 | 82 | 75 | 66 |

■ Technical characteristics for models with ALUMINIUM impellers

Before installation check that the product electrical characteristics listed on the data plate label (Voltage, power, frequency etc) match those of the intended electrical supply. Explosion proof types only work at an ambient temperature between -30°C and +40°C.

| Model | Speed (r.p.m.) | Maximum power absorbed (W) | Maximum current (A) | | Sound pressure level (dB(A)) | Maximum air volume (m ³ /h) | Weight (kg) | Speed* controller |
|-----------------------------|-------------------|-------------------------------|---------------------|----------|---------------------------------|---|----------------|-------------------|
| | | | at 230 V | at 400 V | | | | |
| SINGLE PHASE 2 POLES | | | | | | | | |
| TCBB/2-250/H | 2500 | 240 | 1,2 | - | 65 | 2210 | 8,0 | - |
| TCBB/2-315/H | 2550 | 380 | 3,0 | - | 75 | 4800 | 12,0 | - |
| TCBB/2-315/L-A | 2500 | 380 | 1,7 | - | 70 | 3260 | 11,0 | - |
| TCBB/2-355/H | 2500 | 1200 | 5,4 | - | 81 | 7000 | 15,0 | - |
| TCBB/2-355/J-A | 2000 | 460 | 2,1 | - | 71 | 4000 | 13,2 | - |
| SINGLE PHASE 4 POLES | | | | | | | | |
| TCBB/4-250/H | 1330 | 60 | 0,3 | - | 52 | 1250 | 8,0 | REB-1 |
| TCBB/4-315/H | 1300 | 100 | 0,6 | - | 54 | 2340 | 11,0 | REB-1 |
| TCBB/4-355/H | 1225 | 200 | 1,0 | - | 58 | 3470 | 13,2 | REB-2,5 |
| TCBB/4-400/H | 1200 | 340 | 1,6 | - | 60 | 5100 | 15,5 | REB-2,5 |
| TCBB/4-450/H | 1370 | 620 | 2,7 | - | 62 | 7100 | 21,0 | REB-5 |
| TCBB/4-500/H | 1300 | 800 | 3,5 | - | 66 | 9710 | 25,0 | REB-5 |
| TCBB/4-560/L | 1300 | 1240 | 5,8 | - | 67 | 11750 | 33,0 | RMB-8 |
| TCBB/4-560/H | 1340 | 1680 | 7,7 | - | 69 | 13780 | 34,7 | - |
| TCBB/4-630/L | 1280 | 1800 | 8,4 | - | 70 | 16100 | 40,0 | - |
| SINGLE PHASE 6 POLES | | | | | | | | |
| TCBB/6-355/H | 800 | 90 | 0,5 | - | 50 | 2220 | 13,2 | REB-1 |
| TCBB/6-400/H | 750 | 110 | 0,6 | - | 52 | 3240 | 15,5 | REB-1 |
| TCBB/6-450/H | 890 | 240 | 1,2 | - | 53 | 4590 | 20,7 | REB-2,5 |
| TCBB/6-500/H | 890 | 310 | 1,7 | - | 57 | 6100 | 24,8 | REB-2,5 |
| TCBB/6-560/L | 900 | 420 | 2,4 | - | 58 | 7400 | 33,0 | REB-5 |
| TCBB/6-560/H | 900 | 550 | 2,8 | - | 60 | 8680 | 33,5 | REB-5 |
| TCBB/6-630/L | 860 | 640 | 3,1 | - | 60 | 10600 | 38,0 | REB-5 |
| TCBB/6-630/H | 930 | 980 | 5,4 | - | 62 | 13000 | 38,5 | RMB-8 |
| TCBB/6-710/L | 900 | 1050 | 5,5 | - | 66 | 15800 | 46,0 | - |
| TCBB/6-710/H | 840 | 1300 | 6,5 | - | 69 | 17800 | 46,0 | - |
| SINGLE PHASE 8 POLES | | | | | | | | |
| TCBB/8-450/H | 620 | 140 | 0,8 | - | 47 | 3450 | 20,7 | REB-1 |
| TCBB/8-500/H | 595 | 175 | 1 | - | 48 | 4750 | 24,8 | REB-2,5 |
| TCBB/8-560/H | 595 | 260 | 1,4 | - | 50 | 6620 | 33,0 | REB-2,5 |
| TCBB/8-630/H | 680 | 440 | 2,1 | - | 57 | 8730 | 38,5 | REB-2,5 |
| TCBB/8-710/H | 625 | 480 | 2,4 | - | 63 | 11000 | 46,0 | - |
| THREE PHASE 2 POLES | | | | | | | | |
| TCBT/2-250/H | 2500 | 240 | 0,9 | 0,5 | 65 | 2210 | 8,0 | - |
| TCBT/2-315/H | 2780 | 770 | 2,1 | 1,2 | 75 | 4800 | 12,0 | - |
| TCBT/2-315/G-A | 2600 | 400 | 1,4 | 0,8 | 70 | 3250 | 11,0 | - |
| TCBT/2-355/H | 2750 | 1240 | 3,1 | 1,8 | 81 | 7000 | 15,0 | - |
| TCBT/2-355/I-A | 2380 | 520 | 1,6 | 0,8 | 71 | 4000 | 13,2 | - |
| THREE PHASE 4 POLES | | | | | | | | |
| TCBT/4-250/H | 1330 | 60 | 0,3 | 0,2 | 52 | 1250 | 8,0 | RMT-1,5 |
| TCBT/4-315/H | 1300 | 150 | 0,6 | 0,3 | 54 | 2340 | 11,0 | RMT-1,5 |
| TCBT/4-355/H | 1260 | 200 | 0,8 | 0,5 | 58 | 3470 | 13,2 | RMT-1,5 |
| TCBT/4-400/H | 1360 | 300 | 1,4 | 0,8 | 60 | 5100 | 15,5 | RMT-1,5 |
| TCBT/4-450/H | 1400 | 630 | 2,7 | 1,6 | 62 | 7100 | 21,0 | RMT-3,5 |
| TCBT/4-500/H | 1340 | 880 | 2,9 | 1,7 | 66 | 9710 | 25,0 | RMT-3,5 |
| TCBT/4-560/L | 1320 | 1210 | 3,9 | 2,3 | 67 | 11750 | 33,0 | RMT-8 |
| TCBT/4-560/H | 1370 | 1520 | 4,9 | 2,8 | 69 | 13780 | 34,7 | - |
| TCBT/4-630/L | 1330 | 1900 | 5,6 | 3,2 | 69 | 16100 | 39,0 | - |
| TCBT/4-630/H | 1360 | 2200 | 7,1 | 4,0 | 70 | 18200 | 40,0 | - |
| TCBT/4-710/L (1,5kW) | 1420 | 2500 | 8,4 | 4,8 | 73 | 21590 | 46,0 | - |
| TCBT/4-710/H (3kW) | 1450 | 3400 | 11,1 | 6,4 | 76 | 25500 | 54,0 | - |
| TCBT/4-800/L (3kW) | 1450 | 3700 | 11,2 | 6,5 | 82 | 29200 | 65,0 | - |
| TCBT/4-800/K (4kW) | 1450 | 5000 | - | 9,0 | 84 | 33300 | 68,0 | - |
| TCBT/4-800/G (5,5kW) | 1460 | 6900 | - | 11,6 | 87 | 38400 | 81,0 | - |
| TCBT/4-800/H (7,5kW) | 1460 | 8800 | - | 15,0 | 89 | 43200 | 89,0 | - |

* Three phase speed controllers (RMT) are suitable for 400V.



■ Technical characteristics for models with ALUMINIUM impellers

| Model | Speed (r.p.m.) | Maximum power absorbed (W) | Maximum current (A) | | Sound pressure level (dB(A)) | Maximum air volume (m³/h) | Weight (kg) | Speed* controller |
|----------------------------|-------------------|-------------------------------------|---------------------------|---------|---------------------------------------|---------------------------------|----------------|----------------------|
| | | | a 230 V | a 400 V | | | | |
| THREE PHASE 6 POLES | | | | | | | | |
| TCBT/6-355/H | 875 | 90 | 0,5 | 0,3 | 50 | 2220 | 13,2 | RMT-1,5 |
| TCBT/6-400/H | 830 | 110 | 0,5 | 0,3 | 52 | 3240 | 15,5 | RMT-1,5 |
| TCBT/6-450/H | 890 | 200 | 0,9 | 0,5 | 53 | 4590 | 20,7 | RMT-1,5 |
| TCBT/6-500/H | 870 | 270 | 1,0 | 0,6 | 57 | 6100 | 24,8 | RMT-1,5 |
| TCBT/6-560/L | 900 | 410 | 1,6 | 0,9 | 58 | 7400 | 33,0 | RMT-3,5 |
| TCBT/6-560/H | 870 | 470 | 1,7 | 1,0 | 60 | 8680 | 33,5 | RMT-3,5 |
| TCBT/6-630/L | 890 | 620 | 2,2 | 1,3 | 60 | 10600 | 38,0 | RMT-3,5 |
| TCBT/6-630/H | 950 | 860 | 4,9 | 2,8 | 62 | 13000 | 38,5 | RMT-8 |
| TCBT/6-710/L | 900 | 1080 | 5,7 | 3,3 | 66 | 15800 | 46,0 | - |
| TCBT/6-710/H | 910 | 1300 | 5,2 | 3,0 | 69 | 17800 | 46,0 | - |
| TCBT/6-800/L (1,1kW) | 950 | 1500 | 5,7 | 3,3 | 74 | 20700 | 57,0 | - |
| TCBT/6-800/K (1,5kW) | 965 | 1800 | 7,1 | 4,1 | 76 | 23100 | 64,0 | - |
| TCBT/6-800/G (2,2kW) | 960 | 2500 | 9,0 | 5,2 | 79 | 26100 | 68,0 | - |
| TCBT/6-800/H (3kW) | 980 | 2900 | 10,7 | 6,2 | 80 | 29800 | 80,0 | - |
| THREE PHASE 8 POLES | | | | | | | | |
| TCBT/8-450/H | 655 | 140 | 0,8 | 0,5 | 47 | 3450 | 20,7 | RMT-1,5 |
| TCBT/8-500/H | 615 | 165 | 1,0 | 0,6 | 50 | 4750 | 24,8 | RMT-1,5 |
| TCBT/8-560/H | 595 | 250 | 1,2 | 0,7 | 52 | 6620 | 33,0 | RMT-1,5 |
| TCBT/8-630/H | 680 | 380 | 1,9 | 1,1 | 57 | 8730 | 38,5 | RMT-3,5 |
| TCBT/8-710/H | 620 | 540 | 2,1 | 1,2 | 63 | 11000 | 46,0 | - |
| TCBT/8-800/L (0,37kW) | 700 | 650 | 3,1 | 1,8 | 67 | 14000 | 54,0 | - |
| TCBT/8-800/K (0,55kW) | 710 | 870 | 4,3 | 2,5 | 69 | 16600 | 57,0 | - |
| TCBT/8-800/G (0,75kW) | 720 | 1100 | 4,8 | 2,8 | 72 | 19500 | 61,0 | - |
| TCBT/8-800/H (1,1kW) | 720 | 1340 | 6,2 | 3,6 | 74 | 22500 | 64,0 | - |

* Three phase speed controllers (RMT) are suitable for 400V.



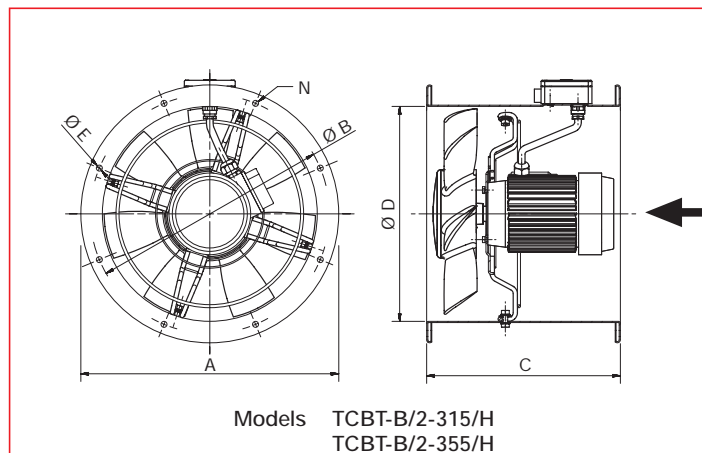
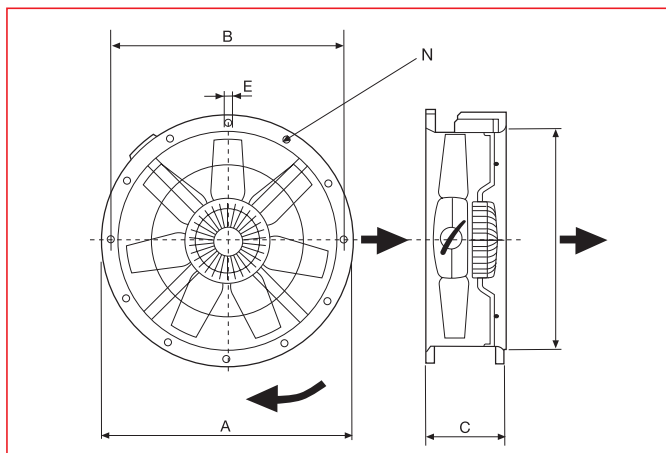
■ Technical characteristics for models with PLASTIC impellers

| Model | Speed (r.p.m.) | Maximum power absorbed (W) | Maximum current (A) | | Sound pressure level (dB(A)) | Maximum air volume (m³/h) | Weight (kg) | Speed* controller |
|-----------------------------|-------------------|-------------------------------|---------------------|---------|---------------------------------|------------------------------|----------------|-------------------|
| | | | a 230 V | a 400 V | | | | |
| SINGLE PHASE 2 POLES | | | | | | | | |
| TCFB/2-250/H | 2500 | 250 | 1,2 | - | 65 | 2160 | 5 | - |
| TCGB/2-315/L | 2500 | 380 | 1,7 | - | 70 | 3260 | 11 | - |
| TCGB/2-355/J | 2000 | 460 | 2,1 | - | 71 | 4000 | 13,2 | - |
| SINGLE PHASE 4 POLES | | | | | | | | |
| TCFB/4-250/H | 1330 | 60 | 0,3 | - | 52 | 1215 | 5 | REB-1 |
| TCFB/4-315/H | 1300 | 100 | 0,6 | - | 54 | 2350 | 7 | REB-1 |
| TCFB/4-355/H | 1225 | 200 | 1,0 | - | 58 | 3490 | 8 | REB-2,5 |
| TCFB/4-400/H | 1200 | 340 | 1,6 | - | 60 | 5070 | 9 | REB-2,5 |
| TCFB/4-450/H | 1290 | 480 | 2,3 | - | 65 | 6760 | 13 | REB-2,5 |
| TCFB/4-500/H | 1290 | 650 | 3,0 | - | 68 | 9200 | 16 | REB-5 |
| TCFB/4-560/H | 1250 | 980 | 4,9 | - | 71 | 12480 | 22 | REB-5 |
| TCFB/4-630/H | 1200 | 1700 | 7,6 | - | 72 | 17060 | 25 | - |
| SINGLE PHASE 6 POLES | | | | | | | | |
| TCFB/6-355/H | 800 | 90 | 0,5 | - | 50 | 2210 | 8 | REB-1 |
| TCFB/6-400/H | 750 | 110 | 0,6 | - | 52 | 3400 | 9 | REB-1 |
| TCFB/6-450/H | 835 | 220 | 1,2 | - | 53 | 4550 | 13 | REB-2,5 |
| TCFB/6-500/H | 840 | 290 | 1,6 | - | 56 | 5820 | 16 | REB-2,5 |
| TCFB/6-560/H | 900 | 420 | 2,4 | - | 59 | 7870 | 22 | REB-2,5 |
| TCFB/6-630/H | 800 | 510 | 2,6 | - | 60 | 10750 | 25 | REB-5 |
| SINGLE PHASE 8 POLES | | | | | | | | |
| TCFB/8-450/H | 625 | 130 | 0,7 | - | 48 | 3500 | 13 | REB-1 |
| TCFB/8-500/H | 605 | 160 | 0,9 | - | 49 | 4660 | 16 | REB-1 |
| TCFB/8-560/H | 610 | 240 | 1,3 | - | 51 | 5990 | 22 | REB-2,5 |
| TCFB/8-630/H | 585 | 320 | 1,7 | - | 52 | 8340 | 25 | REB-2,5 |
| THREE PHASE 2 POLES | | | | | | | | |
| TCFT/2-250/H | 2500 | 250 | 0,9 | 0,5 | 65 | 2160 | 5 | - |
| TCGT/2-315/G | 2600 | 400 | 1,4 | 0,8 | 70 | 3250 | 11 | - |
| TCGT/2-355/I | 2380 | 520 | 1,6 | 0,9 | 71 | 4000 | 13,2 | - |
| THREE PHASE 4 POLES | | | | | | | | |
| TCFT/4-250/H | 1330 | 60 | 0,3 | 0,2 | 52 | 1220 | 5 | RMT-1,5 |
| TCFT/4-315/H | 1300 | 150 | 0,6 | 0,3 | 54 | 2350 | 7 | RMT-1,5 |
| TCFT/4-355/H | 1260 | 200 | 0,8 | 0,5 | 58 | 3490 | 8 | RMT-1,5 |
| TCFT/4-400/H | 1350 | 300 | 1,4 | 0,8 | 60 | 5070 | 9 | RMT-1,5 |
| TCFT/4-450/H | 1230 | 500 | 1,7 | 1,0 | 65 | 6760 | 13 | RMT-1,5 |
| TCFT/4-500/H | 1350 | 660 | 2,7 | 1,6 | 68 | 9200 | 16 | RMT-3,5 |
| TCFT/4-560/H | 1320 | 1210 | 3,9 | 2,3 | 71 | 12480 | 22 | RMT-3,5 |
| TCFT/4-630/H | 1420 | 1550 | 5,2 | 3,0 | 72 | 17060 | 25 | - |
| THREE PHASE 6 POLES | | | | | | | | |
| TCFT/6-355/H | 875 | 90 | 0,5 | 0,3 | 50 | 2210 | 8 | RMT-1,5 |
| TCFT/6-400/H | 830 | 110 | 0,5 | 0,3 | 52 | 3400 | 9 | RMT-1,5 |
| TCFT/6-450/H | 835 | 190 | 0,8 | 0,5 | 53 | 4550 | 13 | RMT-1,5 |
| TCFT/6-500/H | 840 | 250 | 0,9 | 0,5 | 56 | 5820 | 16 | RMT-1,5 |
| TCFT/6-560/H | 900 | 410 | 1,6 | 0,9 | 59 | 8260 | 22 | RMT-1,5 |
| TCFT/6-630/H | 810 | 460 | 2,0 | 1,2 | 60 | 11000 | 25 | RMT-1,5 |
| THREE PHASE 8 POLES | | | | | | | | |
| TCFT/8-450/H | 660 | 130 | 0,7 | 0,4 | 51 | 3500 | 13 | RMT-1,5 |
| TCFT/8-500/H | 625 | 150 | 0,7 | 0,4 | 53 | 4660 | 16 | RMT-1,5 |
| TCFT/8-560/H | 610 | 230 | 1,0 | 0,6 | 55 | 5990 | 22 | RMT-1,5 |
| TCFT/8-630/H | 635 | 310 | 1,3 | 0,8 | 57 | 8340 | 25 | RMT-1,5 |

*Three phase speed controllers (RMT) are suitable for 400 V.



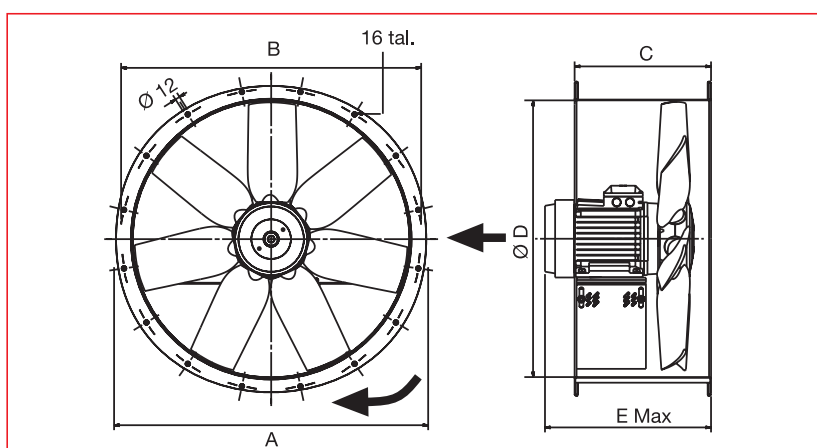
■ Dimensions (mm)



Models TCBT-B/2-315/H
TCBT-B/2-355/H

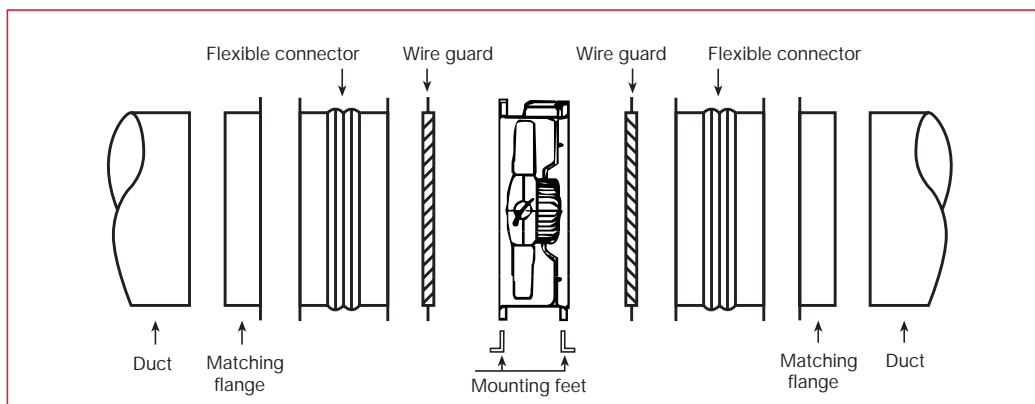
| Model | Ø A | Ø B | C | Ø D | Ø E | Number of holes N |
|---------------------|-----|-----|-----|-----|-----|-------------------|
| 250 | 327 | 292 | 170 | 254 | 10 | 4 |
| 315 | 386 | 355 | 170 | 315 | 10 | 8 |
| 355 | 426 | 395 | 170 | 355 | 10 | 8 |
| 400 | 487 | 450 | 170 | 400 | 12 | 8 |
| 450 | 537 | 500 | 180 | 450 | 12 | 8 |
| 500 | 595 | 560 | 180 | 500 | 12 | 12 |
| 560 | 655 | 620 | 240 | 560 | 12 | 12 |
| 630 | 725 | 690 | 240 | 630 | 12 | 12 |
| 710 (6 and 8 poles) | 806 | 770 | 240 | 710 | 12 | 16 |

| Model | Ø A | Ø B | C | Ø D | Ø E | Number of holes N |
|----------------|-----|-----|-----|-----|-----|-------------------|
| TCBT-B/2-315/H | 386 | 355 | 320 | 315 | 10 | 8 |
| TCBT-B/2-355/H | 426 | 395 | 320 | 355 | 10 | 8 |



| Model | Ø A | B | C | Ø D | E | | |
|-----------------|-----|-----|-----|-----|---------|---------|---------|
| | | | | | 4 poles | 6 poles | 8 poles |
| 710/L (4 poles) | 806 | 770 | 350 | 710 | 405 | - | - |
| 710/H (4 poles) | 806 | 770 | 350 | 710 | 426 | - | - |
| 800/L | 896 | 860 | 350 | 800 | 419 | 398 | 398 |
| 800/K | 896 | 860 | 350 | 800 | 415 | 419 | 398 |
| 800/G | 896 | 860 | 350 | 800 | 471 | 415 | 419 |
| 800/H | 896 | 860 | 350 | 800 | 471 | 415 | 419 |

■ Mounting accessories



| Model | Wire guard | | Matching flange | Flexible connector | Mounting feet |
|-------------------|-----------------------|------------------------|-----------------|---------------------------|---------------|
| | Inlet (impeller side) | Discharge (motor side) | | | |
| TCBB / TCBT 250 | DEF-250 T | DEF-250 T | BRIDA ACOP-250 | ACOPLAMIENTO ELASTICO-250 | PIE-250 |
| TCBB / TCBT 315 | DEF-315 T | DEF-315 T | BRIDA ACOP-315 | ACOPLAMIENTO ELASTICO-315 | PIE-315 |
| TCBB / TCBT 355 | DEF-355 T | DEF-355 T | BRIDA ACOP-355 | ACOPLAMIENTO ELASTICO-355 | PIE-355 |
| TCBB / TCBT 400 | DEF-400 T | DEF-400 T | BRIDA ACOP-400 | ACOPLAMIENTO ELASTICO-400 | PIE-400 |
| TCBB / TCBT 450 | DEF-450 T | DEF-450 T | BRIDA ACOP-450 | ACOPLAMIENTO ELASTICO-450 | PIE-450 |
| TCBB / TCBT 500 | DEF-500T | DEF-500T | BRIDA ACOP-500 | ACOPLAMIENTO ELASTICO-500 | PIE-500 |
| TCBB / TCBT 560 | DEF-560 T | DEF-560 T | BRIDA ACOP-560 | ACOPLAMIENTO ELASTICO-560 | PIE-560 |
| TCBB / TCBT 630 | DEF-630 T | DEF-630 T | BRIDA ACOP-630 | ACOPLAMIENTO ELASTICO-630 | PIE-630 |
| TCBT 4-710/H | DEF-710 T | DEF-710/H-T DESC. | BRIDA ACOP-710 | ACOPLAMIENTO ELASTICO-710 | PIE-710 |
| TCBT 4-710/L | DEF-710 T | DEF-710/L-T DESC. | BRIDA ACOP-710 | ACOPLAMIENTO ELASTICO-710 | PIE-710 |
| TCBB / TCBT 6-710 | DEF-710 T | DEF-710 T | BRIDA ACOP-710 | ACOPLAMIENTO ELASTICO-710 | PIE-710 |
| TCBB / TCBT 8-710 | DEF-710 T | DEF-710 T | BRIDA ACOP-710 | ACOPLAMIENTO ELASTICO-710 | PIE-710 |
| TCBT 800 | DEF-800 T | DEF-800 T DESC*. | BRIDA ACOP-800 | ACOPLAMIENTO ELASTICO-800 | PIE-800 |

* For DEF-800 T outlet, see page 107.

■ Electrical accessories



REB-1N / REB-2,5N
Single phase
electronic speed
controllers



REB-5
Single phase
electronic speed
controllers



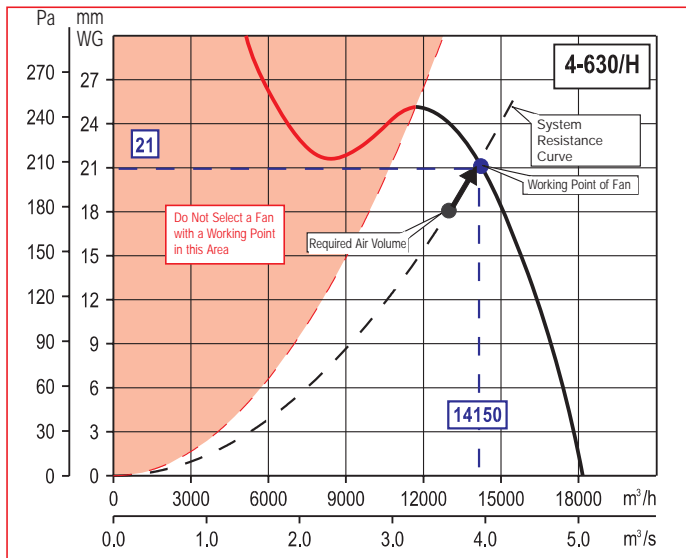
RMB/RMT
Single and three
phase auto
transformer
speed controllers



Performance curves - Series TCBB/TCBT

- Q = Air volume in, m³/hr and m³/s.
- Pe = Static pressure in mmWG and Pa.
- Dry air at 20°C and 760 mmHg.
- Air flow data in accordance with the following standards: UNE 100-212-89, BS 848, Part 1; AMCA 210-85 and ASHRAE 51-1985.

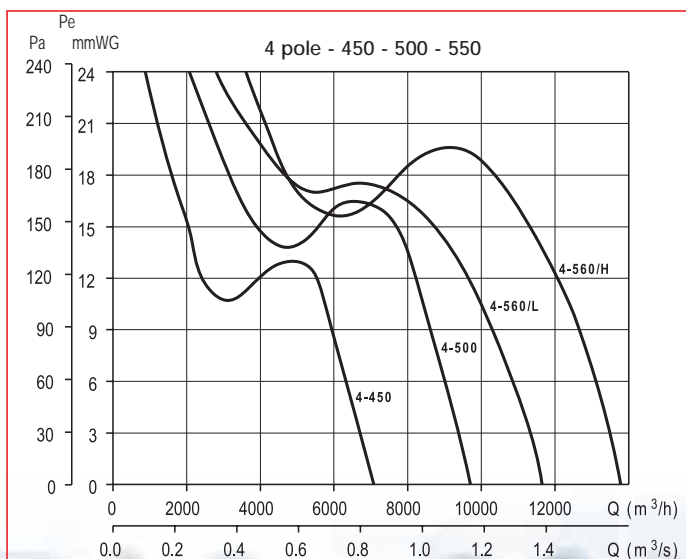
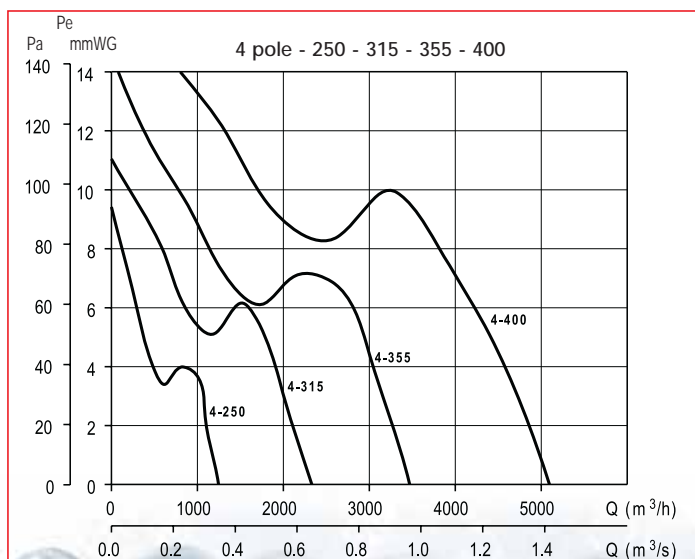
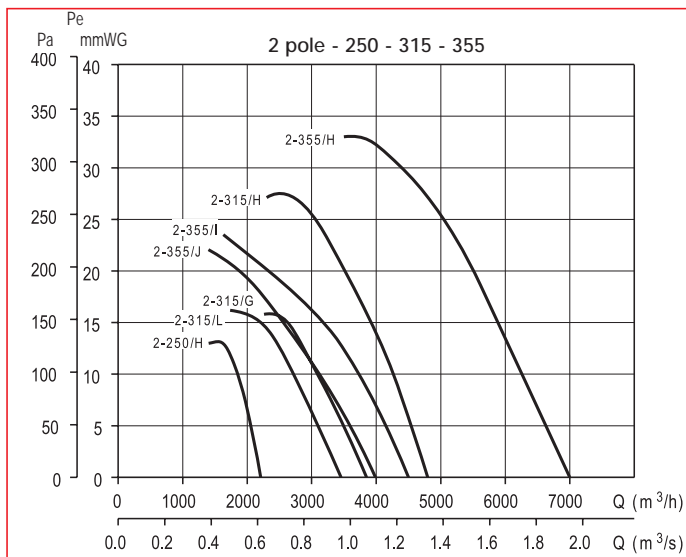
Performance curve characteristics for the Compact cased axial fans with plastic impellers (TCFB/T) correspond with the curves illustrated for the Compact Plate Axial fans (pages 65 to 67).



Typical fan selection:

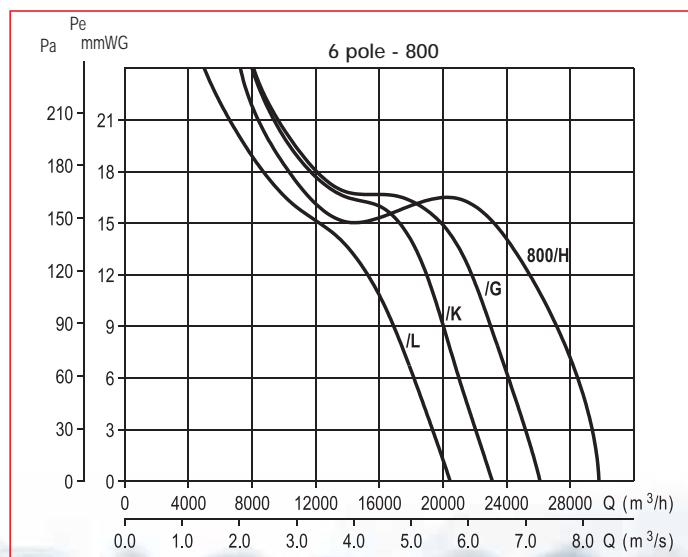
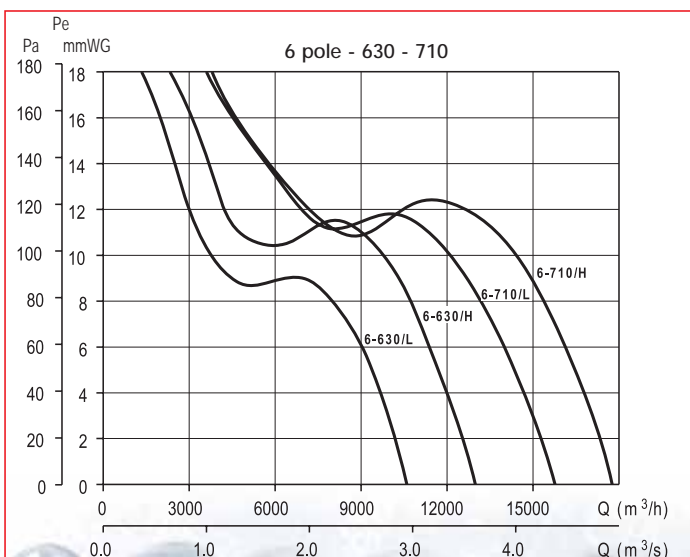
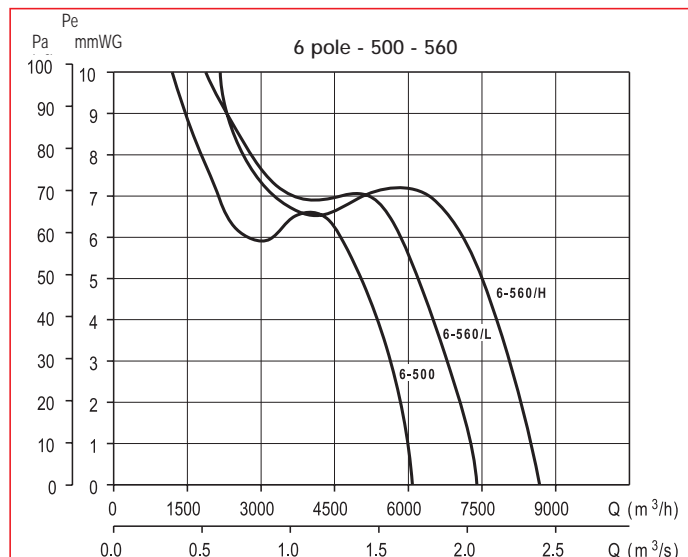
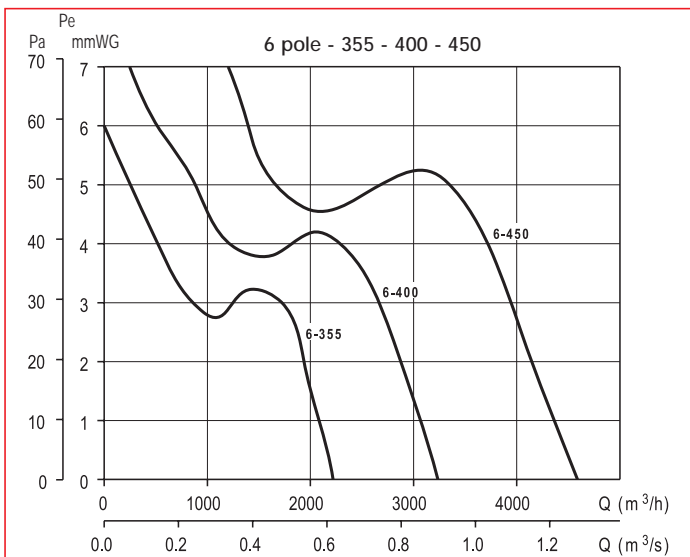
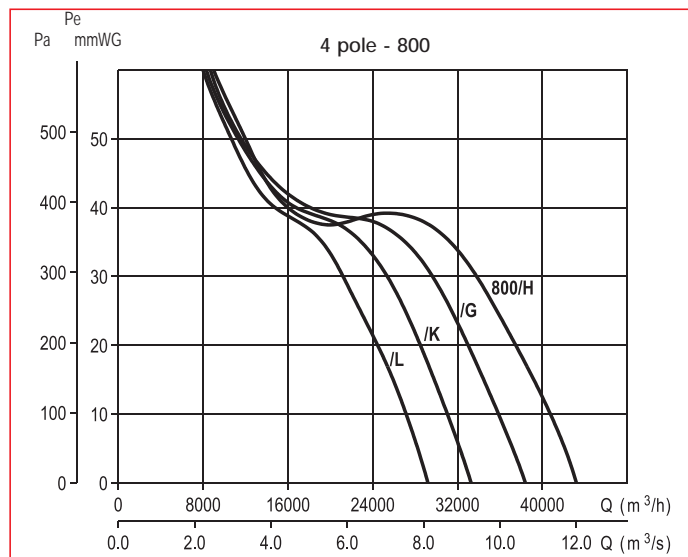
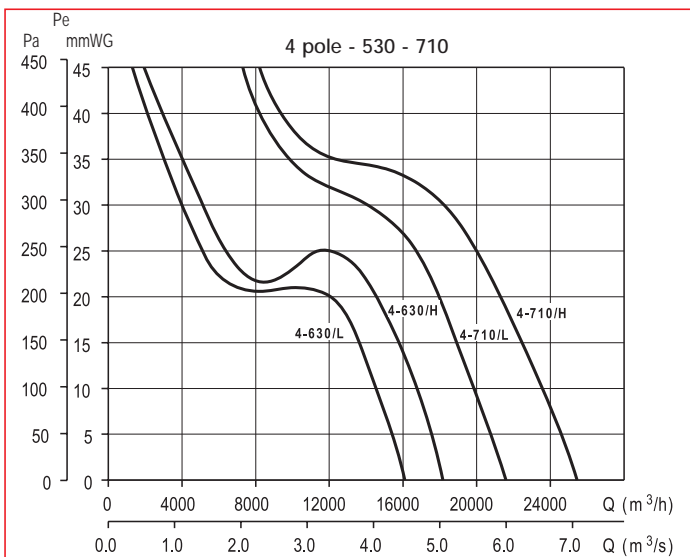
Do not select the working point in the coloured area. To find the working point it is first necessary to plot the system resistance curve. The working point lies at the intersection between that curve and the fan performance curve.

Example: Required air volume 13.100 m³/h at 18 mmWG
Fan working point 14.150 m³/h at 21 mmWG



Performance curves - Series TCBB/TCBT

- Q = Air volume in, m³/hr and m³/s.
- Pe = Static pressure in mmWG and Pa.
- Dry air at 20°C and 760 mmHg.
- Air flow data in accordance with the following standards: UNE 100-212-89, BS 848, Part 1; AMCA 210-85 and ASHRAE 51-1985.



■ Performance curves - Series TCBB/TCBT

- Q = Air volume in, m³/hr and m³/s.
- Pe = Static pressure in mmWG and Pa.
- Dry air at 20°C and 760 mmHg.
- Air flow data in accordance with the following standards: UNE 100-212-89, BS 848, Part 1; AMCA 210-85 and ASHRAE 51-1985.

