



PLATE MOUNTED AXIAL FLOW FANS

COMPACT Series type HCFB / HCFT

(Plastic impellers)



IP65⁽¹⁾

Range of low profile plate mounted axial fans fitted with **plastic impellers** (250 to 630) or aluminium hub and plastic blades (710 to 1000). 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** ⁽³⁾.

All motors are speed controllable by autotransformer except 2 pole and /4-630, 710, T/800, T/900 and T/1000.

Three phase models 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).

(1) 2 pole motor and 800, 900 & 1000 models are IP55.

(2) Working temperatures from -40°C up to 70°C. Except models 800 to 1000 suitable for usage in environments from -20 °C to 40°C.

(3) Except models 800 to 1000.

Additional Information

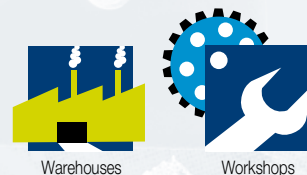
Standard air direction: form (A) configuration (Motor over Impeller).

On request

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

Inlet finger proof guard for models 800 to 1000.

A P P L I C A T I O N S



COMPACT HCFB / HCFT

Plate mounted axial flow fans

Compact design



Compact design created by the combination of the motor with the factory matched direct drive wrap around impeller hub

Corrosion resistance



Mounting plate, motor support and finger proof guard 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 models Ø 800 to 1000





PLATE MOUNTED AXIAL FLOW FANS

COMPACT Series type HCBB / HCBT (Aluminium impellers)



IP65⁽¹⁾

Range of low profile plate mounted axial fans fitted with **aluminium impellers**.

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** ⁽³⁾. All motors are speed controllable by autotransformer except and /4-630, B/710, T/4-710, T/800, T/900 and T/1000.

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).

- (1) 2/315/H, 2/355/H and 800, 900 & 1000 models are IP55.
- (2) Working temperatures from -40°C up to 70°C (except /2-315/H, /2-355/H, 800, 900 and 1000 models: suitable for usage in environments -20°C to 40 °C).
- (3) Except models 2/315/H, 2/355/H and Ø 800 to 1000.

Additional Information

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

On request, explosion proof versions in accordance to ATEX Directive for three phase models:

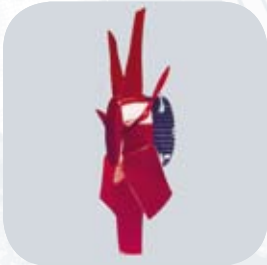
- **Increased safety** Ⓜ II2G EExII T3 (except 250 models and /6 to 355 diameter models).
- **Flame proof only for models 800 to 1000,** Ⓜ II2G EExdIIB T5 or Ⓜ II2G EExdIIC T4. Ⓜ II3D Ex tD 125°C or 135°C.
- Working temperatures from ATEX versions:**
- **from -20°C to 55°C:** /4, 315 to 710 models /6, 450 to 710 models
- **from -20°C to 40°C:** /4-800 model /6-800 model

On request

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

Inlet finger proof guard for models 800 to 1000.

Compact design



Compact design created by the combination of the motor with the factory matched direct drive wrap around impeller hub

Corrosion resistance



Mounting plate, motor support and finger proof guard 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 models Ø 800 to 1000



APPLICATIONS



COMPACT HCBB / HCBT

Plate mounted axial flow fans



Reference

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|
| H | C | F | T | / | 4 | - | 4 | 0 | 0 | / | H | A | | | |
| 1 | 2 | 3 | 4 | | 5 | | 6 | | 7 | | 8 | | 9 | | |

1 - H: Compact Plate Axial Fan

2 - C: Series designation

3 - Impeller Type:

F: Ø 250-Ø 630 Fixed blade plastic impeller

Ø 710 - Ø 1000 Aluminium impeller hub and adjustable plastic blade impellers

G: Adjustable plastic blade impellers

B: Ø 250-Ø 400 Fixed blade aluminium impeller

Ø 450 - Ø 1000 Adjustable blade aluminium impeller

4 - Electrical supply:

B: Single phase

T: Three phase

5 - Number of poles:

2: (approx. 2900 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)

6 - : Nominal Diameter of impeller. (mm)

7 - : Pitch Angle

H: high

L: low

8 - Direction of Air:

A: Motor over Impeller

B: Impeller over Motor

9 - Special Construction

X: Motor support without inlet finger guard

L: Weatherproof Protected

C: Condensation drain holes on motor

EX: Explosion proof versions in accordance to ATEX Directive, for three phase models:

-EXE: Increased safety @II2G EExelIT3

-EXD: Flame proof, only for models 800 and 1000 @II2G EExdIIBT5 or EExdIICT4

G: Special corrosion treatment for agricultural applications

TF: With anticorrosive Teflon paint finish

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 | | High |
| | | | Low* |
| THREE PHASE 380V 50Hz 415V 50Hz | 230/400V 50Hz | | High |
| | | | High |
| | 400V 50Hz | | Low* |

* From sizes 450 up to 630 mm diameter.

Acoustic characteristics

The sound levels 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.

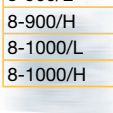
Sound power level spectrum in dB(A) at the corresponding frequency band in Hz.

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

| LwA ASP QMAX | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
|--------------|----|-----|-----|-----|------|------|------|------|
| 4-250 | 44 | 50 | 57 | 58 | 60 | 59 | 53 | 42 |
| 4-315 | 37 | 47 | 57 | 61 | 66 | 63 | 57 | 48 |
| 4-355 | 39 | 59 | 56 | 65 | 70 | 66 | 61 | 52 |
| 4-400 | 41 | 62 | 58 | 67 | 74 | 70 | 66 | 43 |
| 4-450 | 40 | 65 | 62 | 68 | 77 | 71 | 67 | 58 |
| 4-500 | 50 | 68 | 67 | 73 | 79 | 77 | 72 | 61 |
| 4-560 | 47 | 72 | 70 | 82 | 82 | 79 | 74 | 65 |
| 4-630 | 52 | 75 | 73 | 81 | 86 | 83 | 77 | 68 |
| 4-710 | 56 | 78 | 76 | 84 | 89 | 86 | 81 | 71 |
| 4-800/L | 61 | 83 | 81 | 89 | 95 | 91 | 86 | 77 |
| 4-800/H | 64 | 86 | 84 | 92 | 98 | 94 | 89 | 80 |
| 4-900/L | 66 | 88 | 86 | 95 | 100 | 96 | 91 | 82 |
| 4-900/H | 70 | 92 | 90 | 97 | 104 | 100 | 95 | 87 |
| 4-1000/L | 68 | 90 | 88 | 96 | 102 | 98 | 93 | 84 |
| 4-1000/H | 71 | 93 | 91 | 99 | 105 | 101 | 96 | 87 |

| LwA ASP QMAX | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
|--------------|----|-----|-----|-----|------|------|------|------|
| 6-315 | 27 | 37 | 45 | 51 | 52 | 53 | 47 | 36 |
| 6-355 | 39 | 45 | 46 | 52 | 53 | 54 | 48 | 37 |
| 6-400 | 34 | 46 | 49 | 59 | 60 | 60 | 53 | 41 |
| 6-450 | 35 | 50 | 52 | 61 | 64 | 62 | 56 | 45 |
| 6-500 | 39 | 52 | 55 | 63 | 67 | 65 | 59 | 49 |
| 6-560 | 41 | 55 | 60 | 67 | 71 | 70 | 64 | 53 |
| 6-630 | 43 | 59 | 62 | 70 | 71 | 69 | 67 | 56 |
| 6-710 | 51 | 65 | 68 | 77 | 80 | 79 | 73 | 62 |
| 6-800/L | 56 | 70 | 73 | 82 | 85 | 84 | 78 | 67 |
| 6-800/H | 58 | 72 | 75 | 84 | 87 | 86 | 80 | 69 |
| 6-900/L | 61 | 75 | 79 | 87 | 90 | 89 | 83 | 72 |
| 6-900/H | 65 | 79 | 83 | 91 | 94 | 93 | 87 | 76 |
| 6-1000/L | 63 | 77 | 80 | 89 | 92 | 91 | 85 | 74 |
| 6-1000/H | 66 | 80 | 83 | 92 | 95 | 94 | 88 | 77 |

| LwA ASP QMAX | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
|--------------|----|-----|-----|-----|------|------|------|------|
| 8-450 | 42 | 42 | 47 | 55 | 57 | 58 | 49 | 39 |
| 8-500 | 42 | 42 | 51 | 56 | 59 | 59 | 52 | 42 |
| 8-560 | 46 | 46 | 55 | 60 | 62 | 62 | 55 | 45 |
| 8-630 | 45 | 48 | 57 | 63 | 63 | 64 | 58 | 46 |
| 8-710 | 57 | 57 | 64 | 71 | 73 | 73 | 65 | 55 |
| 8-800/L | 61 | 61 | 69 | 75 | 77 | 77 | 70 | 60 |
| 8-800/H | 63 | 63 | 71 | 77 | 79 | 79 | 72 | 62 |
| 8-900/L | 67 | 67 | 75 | 81 | 83 | 83 | 76 | 76 |
| 8-900/H | 71 | 71 | 79 | 85 | 87 | 87 | 80 | 70 |
| 8-1000/L | 68 | 68 | 76 | 82 | 84 | 84 | 77 | 67 |
| 8-1000/H | 72 | 72 | 80 | 86 | 88 | 88 | 81 | 71 |



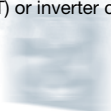


■ Technical characteristics with PLASTIC impellers (HCGB, HCFB, HCGT & HCFT)

Before making any electrical connection ensure that the voltage and frequency of the mains electrical supply matches that of the fan data plate label.

| Model | Speed (r.p.m.) | Maximum absorbed power (W) | Maximum current (A) | | Sound pressure level (dB(A)) | Maximum air volume (m ³ /h) | Weight (kg) | Speed controller | | Inverter control | |
|----------------------------|-------------------|-------------------------------------|---------------------------|----------|---------------------------------------|---|----------------|---------------------|---------|---------------------|-----------------------|
| | | | at 230 V | at 400 V | | | | REB | RMB/T* | VFTM* | VFKB* |
| SINGLE PHASE 2 POLE | | | | | | | | | | | |
| HCGB/2-250/H | 2500 | 250 | 1,2 | | 65 | 2200 | 5 | - | - | | |
| HCGB/2-315/L | 2500 | 380 | 1,7 | | 70 | 3400 | 7 | - | - | | |
| HCGB/2-355/J | 2000 | 460 | 2,2 | | 71 | 4380 | 8 | - | - | | |
| SINGLE PHASE 4 POLE | | | | | | | | | | | |
| HCFB/4-250/H | 1330 | 60 | 0,3 | | 52 | 1215 | 5 | REB-1 | RMB-1,5 | | |
| HCFB/4-315/H | 1300 | 100 | 0,6 | | 54 | 2350 | 7 | REB-1 | RMB-1,5 | | |
| HCFB/4-355/H | 1225 | 200 | 1,0 | | 58 | 3490 | 8 | REB-2,5 | RMB-1,5 | | |
| HCFB/4-400/H | 1200 | 340 | 1,6 | | 60 | 5070 | 9 | REB-2,5 | RMB-3,5 | | |
| HCFB/4-450/H | 1290 | 480 | 2,3 | | 65 | 6760 | 13 | REB-2,5 | RMB-3,5 | | |
| HCFB/4-500/H | 1290 | 650 | 3,0 | | 68 | 9200 | 16 | REB-5 | RMB-3,5 | | |
| HCFB/4-560/H | 1250 | 980 | 4,9 | | 71 | 12480 | 22 | REB-5 | RMB-8 | | |
| HCFB/4-630/H | 1200 | 1700 | 7,6 | | 72 | 17060 | 25 | - | - | | |
| SINGLE PHASE 6 POLE | | | | | | | | | | | |
| HCFB/6-315/H | 825 | 80 | 0,4 | | 45 | 1560 | 7 | REB-1 | RMB-1,5 | | |
| HCFB/6-355/H | 800 | 90 | 0,5 | | 50 | 2210 | 8 | REB-1 | RMB-1,5 | | |
| HCFB/6-400/H | 750 | 110 | 0,6 | | 52 | 3400 | 9 | REB-1 | RMB-1,5 | | |
| HCFB/6-450/H | 835 | 220 | 1,2 | | 53 | 4550 | 13 | REB-2,5 | RMB-1,5 | | |
| HCFB/6-500/H | 840 | 290 | 1,6 | | 56 | 5820 | 16 | REB-2,5 | RMB-3,5 | | |
| HCFB/6-560/H | 900 | 420 | 2,4 | | 59 | 8260 | 22 | REB-2,5 | RMB-3,5 | | |
| HCFB/6-630/H | 800 | 510 | 2,6 | | 60 | 11000 | 25 | REB-5 | RMB-3,5 | | |
| HCFB/6-710/H | 900 | 1300 | 5,7 | | 66 | 16500 | 27 | - | - | | |
| SINGLE PHASE 8 POLE | | | | | | | | | | | |
| HCFB/8-450/H | 625 | 130 | 0,7 | | 46 | 3500 | 13 | REB-1 | | | |
| HCFB/8-500/H | 605 | 160 | 0,9 | | 49 | 4660 | 16 | REB-1 | | | |
| HCFB/8-560/H | 610 | 240 | 1,3 | | 52 | 5990 | 22 | REB-2,5 | | | |
| HCFB/8-630/H | 585 | 320 | 1,7 | | 53 | 8340 | 25 | REB-2,5 | | | |
| HCFB/8-710/H | 625 | 480 | 2,4 | | 59 | 11960 | 27 | - | - | | |
| THREE PHASE 2 POLE | | | | | | | | | | | |
| HCFT/2-250/H | 2500 | 250 | 0,9 | 0,5 | 65 | 2200 | 5 | | | - | VFTM-Tri 0,37 VFKB-45 |
| HCGT/2-315/G | 2650 | 410 | 1,4 | 0,8 | 70 | 3800 | 7 | | | - | VFTM-Tri 0,37 VFKB-45 |
| HCGT/2-355/I | 2380 | 520 | 1,6 | 0,9 | 71 | 4400 | 8 | | | - | VFTM-Tri 0,37 VFKB-45 |
| THREE PHASE 4 POLE | | | | | | | | | | | |
| HCFT/4-250/H | 1330 | 60 | 0,3 | 0,2 | 52 | 1215 | 5 | | RMT-1,5 | VFTM-Tri 0,37 | VFKB-45 |
| HCFT/4-315/H | 1300 | 150 | 0,6 | 0,3 | 54 | 2350 | 7 | | RMT-1,5 | VFTM-Tri 0,37 | VFKB-45 |
| HCFT/4-355/H | 1260 | 200 | 0,8 | 0,5 | 58 | 3490 | 8 | | RMT-1,5 | VFTM-Tri 0,37 | VFKB-45 |
| HCFT/4-400/H | 1350 | 300 | 1,4 | 0,8 | 60 | 5070 | 9 | | RMT-1,5 | VFTM-Tri 0,37 | VFKB-45 |
| HCFT/4-450/H | 1230 | 500 | 1,7 | 1,0 | 65 | 6760 | 13 | | RMT-1,5 | VFTM-Tri 0,37 | VFKB-45 |
| HCFT/4-500/H | 1350 | 660 | 2,7 | 1,6 | 68 | 9200 | 16 | | RMT-2,5 | VFTM-Tri 0,55 | VFKB-45 |
| HCFT/4-560/H | 1320 | 1210 | 3,9 | 2,3 | 71 | 12480 | 22 | | RMT-2,5 | VFTM-Tri 0,75 | VFKB-45 |
| HCFT/4-630/H | 1420 | 1550 | 5,2 | 3,0 | 72 | 17060 | 25 | | - | VFTM-Tri 1,1 | VFKB-45 |
| HCFT/4-710/H | 1350 | 2200 | 7,0 | 4,0 | 75 | 22150 | 27 | | - | VFTM-Tri 1,5 | VFKB-45 |
| HCFT/4-800/L-X (1,5 kW) | 1420 | 2300 | 6,6 | 3,8 | 79 | 24960 | 37 | | - | VFTM-Tri 1,5 | VFKB-45 |
| HCFT/4-800/H-X (3 kW) | 1430 | 4200 | 12,6 | 7,3 | 82 | 31140 | 52 | | - | VFTM-Tri 4 | VFKB-48 |
| HCFT/4-900/L-X (3 kW) | 1400 | 4400 | 11,3 | 6,5 | 83 | 35000 | 94 | | - | VFTM-Tri 3 | VFKB-48 |
| HCFT/4-900/H-X (5,5 kW) | 1400 | 7200 | | 12,0 | 87 | 45000 | 110 | | - | VFTM-Tri 5,5 | - |
| HCFT/4-1000/L-X (3 kW) | 1400 | 4400 | 12,3 | 7,1 | 84 | 39240 | 67 | | - | VFTM-Tri 3 | VFKB-48 |
| HCFT/4-1000/H-X (5,5 kW) | 1460 | 7200 | | 12,0 | 87 | 54000 | 95 | | - | VFTM-Tri 5,5 | - |

* Three phase speed controllers (RMT) or inverter control (VFKB/VFTM): three phase 400V.





■ Technical characteristics with PLASTIC impellers

| Model | Speed (r.p.m.) | Maximum absorbed power (W) | Maximum current (A) | | Sound pressure level (dB(A)) | Maximum air volume (m ³ /h) | Weight (kg) | Speed controller | | Inverter control | |
|---------------------------|-------------------|-------------------------------------|---------------------------|----------|---------------------------------------|---|----------------|---------------------|---------|---------------------|---------|
| | | | at 230 V | at 400 V | | | | REB | RMB/T* | VFTM* | VFKB* |
| THREE PHASE 6 POLE | | | | | | | | | | | |
| HCFT/6-355/H | 875 | 90 | 0,5 | 0,3 | 50 | 2210 | 8 | | RMT-1,5 | VFTM-Tri 0,37 | VFKB-45 |
| HCFT/6-400/H | 830 | 110 | 0,5 | 0,3 | 52 | 3400 | 9 | | RMT-1,5 | VFTM-Tri 0,37 | VFKB-45 |
| HCFT/6-450/H | 835 | 190 | 0,8 | 0,5 | 53 | 4550 | 13 | | RMT-1,5 | VFTM-Tri 0,37 | VFKB-45 |
| HCFT/6-500/H | 840 | 250 | 0,9 | 0,5 | 56 | 5820 | 16 | | RMT-1,5 | VFTM-Tri 0,37 | VFKB-45 |
| HCFT/6-560/H | 900 | 410 | 1,6 | 0,9 | 59 | 8260 | 22 | | RMT-1,5 | VFTM-Tri 0,37 | VFKB-45 |
| HCFT/6-630/H | 905 | 530 | 2,2 | 1,26 | 60 | 11000 | 25 | | RMT-1,5 | VFTM-Tri 0,37 | VFKB-45 |
| HCFT/6-710/H | 920 | 1100 | 4,9 | 3,3 | 66 | 16500 | 27 | | RMT-5 | VFTM-Tri 1,5 | VFKB-45 |
| HCFT/6-800/L-X (0,55 kW) | 900 | 1180 | 3,9 | 2,2 | 70 | 16720 | 31 | | – | VFTM-Tri 0,75 | VFKB 45 |
| HCFT/6-800/H-X (0,75 kW) | 940 | 1220 | 4,3 | 2,5 | 72 | 20860 | 36 | | – | VFTM-Tri 1,1 | VFKB 45 |
| HCFT/6-900/L-X (1,1 kW) | 950 | 1400 | 5,7 | 3,3 | 74 | 23380 | 86 | | – | VFTM-Tri 1,5 | VFKB 45 |
| HCFT/6-900/H-X (1,5 kW) | 950 | 2330 | 7,0 | 4 | 78 | 30480 | 93 | | – | VFTM-Tri 1,5 | VFKB 45 |
| HCFT/6-1000/L-X (1,1 kW) | 940 | 1400 | 5,6 | 3,2 | 75 | 26290 | 54 | | – | VFTM-Tri 1,5 | VFKB 45 |
| HCFT/6-1000/H-X (1,5 kW) | 950 | 2330 | 7,6 | 4,4 | 78 | 36180 | 62 | | – | VFTM-Tri 2,2 | VFKB 45 |
| THREE PHASE 8 POLE | | | | | | | | | | | |
| HCFT/8-450/H | 660 | 130 | 0,7 | 0,4 | 46 | 3500 | 13 | | RMT-1,5 | VFTM-Tri 0,37 | VFKB-45 |
| HCFT/8-500/H | 625 | 150 | 0,7 | 0,4 | 49 | 4660 | 16 | | RMT-1,5 | VFTM-Tri 0,37 | VFKB-45 |
| HCFT/8-560/H | 610 | 230 | 1,0 | 0,6 | 52 | 5990 | 22 | | RMT-1,5 | VFTM-Tri 0,37 | VFKB-45 |
| HCFT/8-630/H | 635 | 310 | 1,3 | 0,8 | 53 | 8340 | 25 | | RMT-1,5 | VFTM-Tri 0,37 | VFKB-45 |
| HCFT/8-710/H | 670 | 450 | 2,0 | 1,2 | 59 | 11960 | 27 | | RMT-1,5 | VFTM-Tri 0,37 | VFKB-45 |
| HCFT/8-800/L-X (0,25 kW) | 710 | 580 | 2,2 | 1,3 | 63 | 12480 | 63 | | – | VFTM-Tri 0,37 | VFKB 45 |
| HCFT/8-800/H-X (0,37 kW) | 690 | 700 | 3,0 | 1,7 | 65 | 17160 | 64 | | – | VFTM-Tri 0,55 | VFKB 45 |
| HCFT/8-900/L-X (0,37 kW) | 700 | 720 | 2,8 | 1,6 | 69 | 17450 | 90 | | – | VFTM-Tri 0,55 | VFKB 45 |
| HCFT/8-900/H-X (0,75 kW) | 700 | 1100 | 4,5 | 2,6 | 72 | 22750 | 90 | | – | VFTM-Tri 1,1 | VFKB 45 |
| HCFT/8-1000/L-X (0,37 kW) | 700 | 720 | 3,0 | 1,7 | 68 | 19620 | 68 | | – | VFTM-Tri 0,55 | VFKB 45 |
| HCFT/8-1000/H-X (0,75 kW) | 725 | 1100 | 4,6 | 2,7 | 72 | 27000 | 71 | | – | VFTM-Tri 1,1 | VFKB 45 |

* Three phase speed controllers (RMT) or inverter control (VFKB/VFTM): three phase 400V.

COMPACT

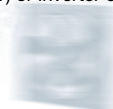
Plate mounted axial flow fans



■ Technical characteristics with ALUMINIUM impellers (HCBB, HCBT)

| Model | Speed (r.p.m.) | Maximum absorbed power (W) | Maximum current (A) | | Sound pressure level (dB(A)) | Maximum air volume (m ³ /h) | Weight (kg) | Speed controller | | Inverter control | |
|----------------------------|-------------------|-------------------------------------|---------------------------|----------|---------------------------------------|---|----------------|---------------------|---------|---------------------|---------|
| | | | at 230 V | at 400 V | | | | REB | RMB/T* | VFTM* | VFKB* |
| SINGLE PHASE 2 POLE | | | | | | | | | | | |
| HCBB/2-250/H | 2500 | 250 | 1,2 | | 65 | 2160 | 5 | - | - | | |
| HCBB/2-315/H (0,37kW) | 2550 | 730 | 3,5 | | 75 | 4800 | 8 | - | - | | |
| HCBB/2-315/L | 2500 | 380 | 1,7 | | 70 | 3260 | 7 | - | - | | |
| HCBB/2-355/H (0,55kW) | 2500 | 1200 | 5,0 | | 81 | 7000 | 9 | - | - | | |
| HCBB/2-355/J | 2000 | 460 | 2,2 | | 71 | 4000 | 8 | - | - | | |
| SINGLE PHASE 4 POLE | | | | | | | | | | | |
| HCBB/4-250/H | 1330 | 60 | 0,3 | | 52 | 1215 | 5 | REB-1 | RMB-1,5 | | |
| HCBB/4-315/H | 1300 | 100 | 0,6 | | 54 | 2350 | 7 | REB-1 | RMB-1,5 | | |
| HCBB/4-355/H | 1225 | 200 | 1,0 | | 58 | 3490 | 8 | REB-2,5 | RMB-1,5 | | |
| HCBB/4-400/H | 1200 | 340 | 1,6 | | 60 | 5070 | 9 | REB-2,5 | RMB-3,5 | | |
| HCBB/4-450/H | 1290 | 480 | 2,3 | | 65 | 6760 | 13 | REB-2,5 | RMB-3,5 | | |
| HCBB/4-500/H | 1290 | 650 | 3,0 | | 68 | 9200 | 16 | REB-5 | RMB-3,5 | | |
| HCBB/4-560/H | 1250 | 980 | 5,9 | | 71 | 12480 | 22 | REB-10 | RMB-8 | | |
| HCBB/4-630/H | 1200 | 1700 | 7,6 | | 72 | 17060 | 25 | - | - | | |
| SINGLE PHASE 6 POLE | | | | | | | | | | | |
| HCBB/6-355/H | 800 | 90 | 0,5 | | 50 | 2210 | 8 | REB-1 | RMB-1,5 | | |
| HCBB/6-400/H | 750 | 110 | 0,6 | | 52 | 3400 | 9 | REB-1 | RMB-1,5 | | |
| HCBB/6-450/H | 835 | 220 | 1,2 | | 53 | 4550 | 13 | REB-2,5 | RMB-1,5 | | |
| HCBB/6-500/H | 840 | 290 | 1,6 | | 56 | 5820 | 16 | REB-2,5 | RMB-3,5 | | |
| HCBB/6-560/H | 900 | 420 | 2,4 | | 59 | 7870 | 22 | REB-2,5 | RMB-3,5 | | |
| HCBB/6-630/H | 800 | 510 | 2,6 | | 60 | 10750 | 25 | REB-5 | RMB-3,5 | | |
| HCBB/6-710/H | 900 | 1300 | 5,7 | | 66 | 17570 | 27 | - | - | | |
| SINGLE PHASE 8 POLE | | | | | | | | | | | |
| HCBB/8-450/H | 625 | 130 | 0,7 | | 46 | 3500 | 13 | REB-1 | RMB-1,5 | | |
| HCBB/8-500/H | 605 | 160 | 0,9 | | 49 | 4660 | 16 | REB-1 | RMB-1,5 | | |
| HCBB/8-560/H | 610 | 240 | 1,3 | | 52 | 5990 | 22 | REB-2,5 | RMB-1,5 | | |
| HCBB/8-630/H | 585 | 320 | 1,7 | | 53 | 8340 | 25 | REB-2,5 | RMB-3,5 | | |
| HCBB/8-710/H | 625 | 480 | 2,4 | | 59 | 11960 | 27 | - | - | | |
| THREE PHASE 2 POLE | | | | | | | | | | | |
| HCBT/2-250/H | 2500 | 250 | 0,9 | 0,5 | 65 | 2160 | 5 | | | VFTM-Tri 0,37 | VFKB-45 |
| HCBT/2-315/H (0,37kW) | 2750 | 750 | 2,1 | 1,2 | 75 | 4800 | 8 | | | VFTM-Tri 0,37 | VFKB-45 |
| HCBT/2-315/G | 2650 | 410 | 1,4 | 0,8 | 70 | 3800 | 7 | | | VFTM-Tri 0,37 | VFKB-45 |
| HCBT/2-355/H (0,55kW) | 2700 | 1200 | 3,3 | 1,9 | 81 | 7000 | 9 | | | VFTM-Tri 0,55 | VFKB-45 |
| HCBT/2-355/I | 2380 | 520 | 1,6 | 0,9 | 71 | 4400 | 8 | | | VFTM-Tri 0,37 | VFKB-45 |
| THREE PHASE 4 POLE | | | | | | | | | | | |
| HCBT/4-250/H | 1330 | 60 | 0,3 | 0,2 | 52 | 1220 | 5 | | RMT-1,5 | VFTM-Tri 0,37 | VFKB-45 |
| HCBT/4-315/H | 1300 | 150 | 0,6 | 0,3 | 54 | 2350 | 7 | | RMT-1,5 | VFTM-Tri 0,37 | VFKB-45 |
| HCBT/4-355/H | 1260 | 200 | 0,8 | 0,5 | 58 | 3490 | 8 | | RMT-1,5 | VFTM-Tri 0,37 | VFKB-45 |
| HCBT/4-400/H | 1350 | 300 | 1,4 | 0,8 | 60 | 5070 | 9 | | RMT-1,5 | VFTM-Tri 0,37 | VFKB-45 |
| HCBT/4-450/H | 1230 | 500 | 1,7 | 1,0 | 65 | 6760 | 13 | | RMT-1,5 | VFTM-Tri 0,37 | VFKB-45 |
| HCBT/4-500/H | 1350 | 660 | 2,7 | 1,6 | 68 | 9200 | 16 | | RMT-2,5 | VFTM-Tri 0,55 | VFKB-45 |
| HCBT/4-560/H | 1320 | 1210 | 3,9 | 2,3 | 71 | 12480 | 22 | | RMT-2,5 | VFTM-Tri 0,75 | VFKB-45 |
| HCBT/4-630/H | 1420 | 1550 | 5,2 | 3,0 | 72 | 17060 | 25 | | - | VFTM-Tri 1,1 | VFKB-45 |
| HCBT/4-710/H | 1350 | 2200 | 7,0 | 4,0 | 75 | 22150 | 27 | | - | VFTM-Tri 1,5 | VFKB-45 |
| HCBT/4-800/L-X (1,5 kW) | 1420 | 2300 | 6,6 | 3,8 | 79 | 24960 | 37 | | - | VFTM-Tri 1,5 | VFKB-45 |
| HCBT/4-800/H-X (3 kW) | 1430 | 4200 | 12,6 | 7,3 | 82 | 32600 | 52 | | - | VFTM-Tri 4 | VFKB-48 |
| HCBT/4-900/L-X (3 kW) | 1400 | 4400 | 11,3 | 6,5 | 83 | 35000 | 96 | | - | VFTM-Tri 3 | VFKB-48 |
| HCBT/4-900/H-X (5,5 kW) | 1400 | 7200 | | 12,0 | 87 | 45000 | 112 | | - | VFTM-Tri 5,5 | - |
| HCBT/4-1000/L-X (3 kW) | 1400 | 4400 | 12,3 | 7,1 | 84 | 42000 | 67 | | - | VFTM-Tri 3 | VFKB-48 |
| HCBT/4-1000/H-X (5,5 kW) | 1460 | 7200 | | 12,0 | 87 | 54000 | 95 | | - | VFTM-Tri 5,5 | - |

* Three phase speed controllers (RMT) or inverter control (VFKB/VFTM): three phase 400V.





■ Technical characteristics with ALUMINIUM impellers

| Model | Speed (r.p.m.) | Maximum absorbed power (W) | Maximum current (A) | | Sound pressure level (dB(A)) | Maximum air volume (m ³ /h) | Weight (kg) | Speed controller | | Inverter control | |
|---------------------------|-------------------|-------------------------------------|---------------------------|---------|---------------------------------------|---|----------------|---------------------|---------|---------------------|---------|
| | | | a 230 V | a 400 V | | | | REB | RMB/T* | VFTM* | VFKB* |
| | | | THREE PHASE 6 POLE | | | | | | | | |
| HCBT/6-355/H | 875 | 90 | 0,5 | 0,3 | 50 | 2210 | 8 | | RMT-1,5 | VFTM-Tri 0,37 | VFKB-45 |
| HCBT/6-400/H | 830 | 110 | 0,5 | 0,3 | 52 | 3400 | 9 | | RMT-1,5 | VFTM-Tri 0,37 | VFKB-45 |
| HCBT/6-450/H | 835 | 190 | 0,8 | 0,5 | 53 | 4550 | 13 | | RMT-1,5 | VFTM-Tri 0,37 | VFKB-45 |
| HCBT/6-500/H | 840 | 250 | 0,9 | 0,5 | 56 | 5820 | 16 | | RMT-1,5 | VFTM-Tri 0,37 | VFKB-45 |
| HCBT/6-560/H | 900 | 410 | 1,6 | 0,9 | 59 | 8260 | 22 | | RMT-1,5 | VFTM-Tri 0,37 | VFKB-45 |
| HCBT/6-630/H | 905 | 530 | 2,20 | 1,26 | 60 | 11000 | 25 | | RMT-1,5 | VFTM-Tri 0,37 | VFKB-45 |
| HCBT/6-710/H | 920 | 1100 | 4,9 | 3,3 | 66 | 16500 | 27 | | RMT-5 | VFTM-Tri 1,5 | VFKB-45 |
| HCBT/6-800/L-X (0,55 kW) | 900 | 1180 | 3,9 | 2,2 | 70 | 19370 | 31 | | – | VFTM-Tri 0,75 | VFKB-45 |
| HCBT/6-800/H-X (0,75 kW) | 940 | 1220 | 4,3 | 2,5 | 72 | 22000 | 36 | | – | VFTM-Tri 1,1 | VFKB-45 |
| HCBT/6-900/L-X (1,1 kW) | 950 | 1400 | 5,7 | 3,3 | 74 | 23500 | 88 | | – | VFTM-Tri 1,5 | VFKB-45 |
| HCBT/6-900/H-X (1,5 kW) | 950 | 2330 | 7,0 | 4 | 78 | 30000 | 95 | | – | VFTM-Tri 1,5 | VFKB-45 |
| HCBT/6-1000/L-X (1,1 kW) | 940 | 1400 | 5,6 | 3,2 | 75 | 28000 | 54 | | – | VFTM-Tri 1,5 | VFKB-45 |
| HCBT/6-1000/H-X (1,5 kW) | 950 | 2330 | 7,6 | 4,4 | 78 | 36400 | 62 | | – | VFTM-Tri 2,2 | VFKB-45 |
| THREE PHASE 8 POLE | | | | | | | | | | | |
| HCBT/8-450/H | 660 | 130 | 0,7 | 0,4 | 46 | 3500 | 13 | | RMT-1,5 | VFTM-Tri 0,37 | VFKB-45 |
| HCBT/8-500/H | 625 | 150 | 0,7 | 0,4 | 49 | 4660 | 16 | | RMT-1,5 | VFTM-Tri 0,37 | VFKB-45 |
| HCBT/8-560/H | 610 | 230 | 1,0 | 0,6 | 52 | 5990 | 22 | | RMT-1,5 | VFTM-Tri 0,37 | VFKB-45 |
| HCBT/8-630/H | 635 | 310 | 1,3 | 0,8 | 53 | 8340 | 25 | | RMT-1,5 | VFTM-Tri 0,37 | VFKB-45 |
| HCBT/8-710/H | 670 | 450 | 2,0 | 1,2 | 59 | 11960 | 27 | | RMT-1,5 | VFTM-Tri 0,37 | VFKB-45 |
| HCBT/8-800/L-X (0,25 kW) | 710 | 580 | 2,2 | 1,3 | 63 | 14000 | 63 | | – | VFTM-Tri 0,37 | VFKB-45 |
| HCBT/8-800/H-X (0,37 kW) | 690 | 700 | 3,0 | 1,7 | 65 | 17160 | 64 | | – | VFTM-Tri 0,55 | VFKB-45 |
| HCBT/8-900/L-X (0,37 kW) | 750 | 720 | 2,8 | 1,6 | 69 | 17500 | 85 | | – | VFTM-Tri 0,55 | VFKB-45 |
| HCBT/8-900/H-X (0,75 kW) | 750 | 1100 | 4,5 | 2,6 | 72 | 22500 | 92 | | – | VFTM-Tri 1,1 | VFKB-45 |
| HCBT/8-1000/L-X (0,37 kW) | 700 | 720 | 3,0 | 1,7 | 68 | 20490 | 68 | | – | VFTM-Tri 0,55 | VFKB-45 |
| HCBT/8-1000/H-X (0,75 kW) | 725 | 1100 | 4,6 | 2,7 | 72 | 27040 | 71 | | – | VFTM-Tri 1,1 | VFKB-45 |

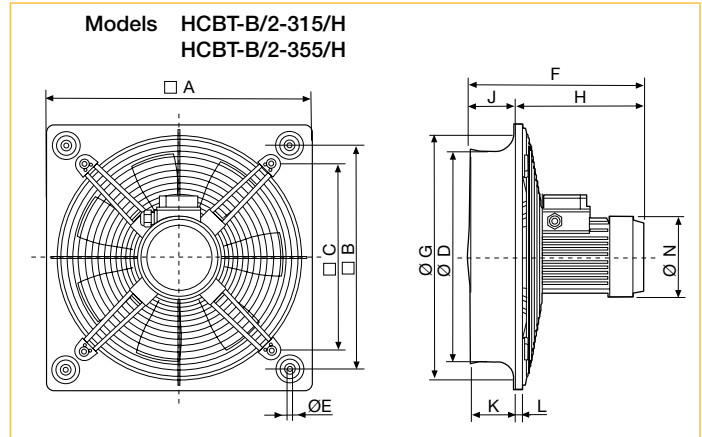
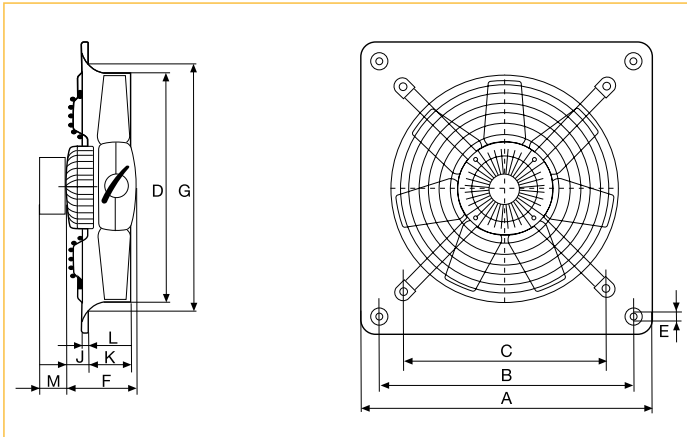
* Three phase speed controllers (RMT) or inverter control (VFKB/VFTM): three phase 400V.

COMPACT

Plate mounted axial flow fans

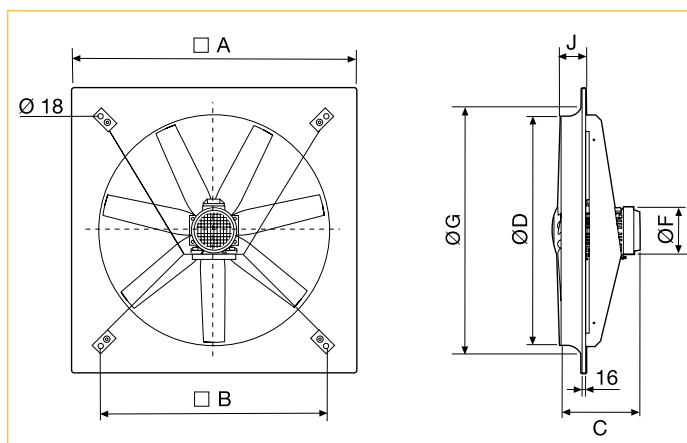


■ Dimensions (mm)



| Model | A | B | C | Ø D | Ø E | F | | | | Ø G | J | | | | K | L | M | |
|-------|-----|-----|-----|-----|-----|-----------------|-------|-------|-------|-----|-----------------|-------|------|------|------|------|-------------|--------------|
| | | | | | | Number of Poles | | | | | Number of Poles | | | | | | Three phase | Single phase |
| | | | | | | /2 | /4 | /6 | /8 | | /2 | /4 | /6 | /8 | | | | |
| 250 | 315 | 260 | 220 | 254 | 10 | 122 | 122 | | | 294 | 59 | 59 | | | 53 | 12 | 40 | 65 |
| 315 | 400 | 330 | 280 | 315 | 10 | 129 | 122 | 122 | | 329 | 45 | 32 | 32 | | 68 | 12 | 40 | 65 |
| 355 | 450 | 380 | 315 | 355 | 10 | 129 | 129 | 129 | | 371 | 45 | 45 | 45 | | 75 | 12 | 40 | 65 |
| 400 | 500 | 420 | 355 | 400 | 10 | | 129 | 129 | | 422 | | 40,5 | 40,5 | | 78 | 12 | 40 | 65 |
| 450 | 560 | 480 | 400 | 450 | 10 | | 150 | 150 | 150 | 476 | | 48 | 48 | 48 | 91 | 12 | 40 | 65 |
| 500 | 630 | 560 | 450 | 500 | 10 | | 150 | 150 | 150 | 536 | | 44,5 | 44,5 | 44,5 | 97 | 12 | 40 | 65 |
| 560 | 710 | 630 | 510 | 560 | 10 | | 218,5 | 150 | 150 | 596 | | 110,5 | 42 | 42 | 98,5 | 12 | 40 | 65 |
| 630 | 800 | 710 | 580 | 630 | 12 | | 218,5 | 150 | 150 | 674 | | 110,5 | 41 | 41 | 103 | 12 | 40 | 65 |
| 710 | 900 | 800 | 636 | 710 | 12 | | 218,5 | 218,5 | 218,5 | 733 | | 134 | 134 | 134 | 91,5 | 16,5 | 40 | 65 |

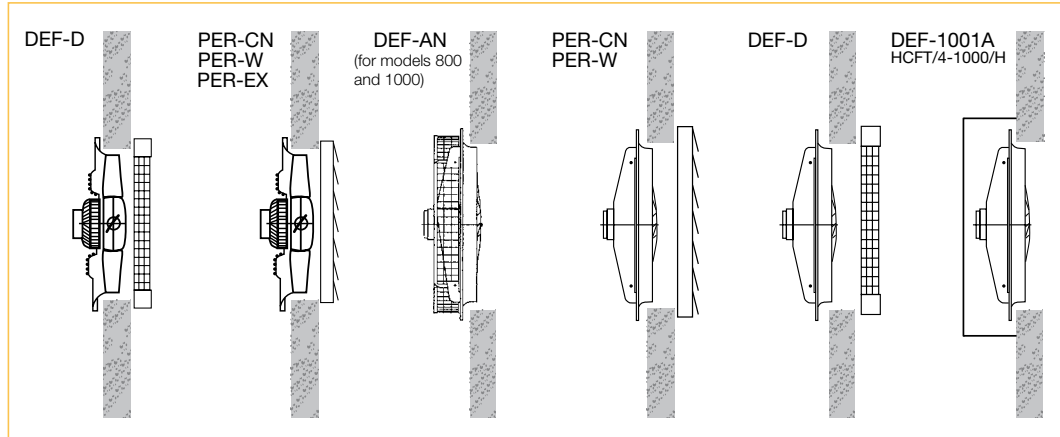
| Model | A | B | C | Ø D | Ø E | F | Ø G | H | J | K | L | Ø N |
|----------------|-----|-----|-----|-----|-----|-----|-----|-------|------|----|----|-----|
| HCBT-B/2-315/H | 400 | 330 | 280 | 315 | 10 | 298 | 329 | 220,5 | 77,5 | 68 | 12 | 135 |
| HCBT-B/2-355/H | 450 | 380 | 315 | 355 | 10 | 298 | 371 | 219 | 79 | 75 | 12 | 135 |



| Model | A | B | Ø D | J | Ø G | C | | | | | | Ø F | | | | | |
|-------|------|------|------|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | | | | | | /4 | | /6 | | /8 | | /4 | | /6 | | /8 | |
| | | | | | | L | H | L | H | L | H | L | H | L | H | L | H |
| 800 | 1000 | 800 | 800 | 92 | 926 | 345 | 380 | 310 | 345 | 310 | 345 | 181 | 203 | 162 | 181 | 162 | 181 |
| 900 | 1120 | 900 | 900 | 120 | 1060 | | 439 | | | | | | 306 | | | | |
| 1000 | 1250 | 1000 | 1000 | 110 | 1154 | 380 | 485 | 345 | 380 | 345 | 380 | 203 | 280 | 181 | 203 | 181 | 203 |



■ Installation accessories



| Model HCFB/HCFT HCBB/HCBT | Wire Protection Guards | | Exhaust Side Louvre Shutters | | |
|------------------------------|------------------------|-------------|------------------------------|-------------|---------------|
| | Outlet | Inlet | Plastic | Aluminium | ATEX version* |
| 250 | DEF-250 D | - | PER-250 W | PER-250 CN | PER-315 Ex |
| 315 | DEF-325 D | - | PER-355 W | PER-355 CN | PER-315 Ex |
| 355 | DEF-375 D | - | PER-355 W | PER-355 CN | PER-355 Ex |
| 400 | DEF-450 D | - | PER-400 W | PER-400 CN | PER-400 Ex |
| 450 | DEF-450 D | - | PER-450 W | PER-450 CN | PER-450 Ex |
| 500 | DEF-525 D | - | PER-500 W | PER-500 CN | PER-500 Ex |
| 560 | DEF-630 D | - | PER-560 W | PER-630 CN | PER-560 Ex |
| 630 | DEF-630 D | - | PER-630 W | PER-630 CN | PER-630 Ex |
| 710 | DEF-800 D | - | PER-710 W | PER-710 CN | PER-710 Ex |
| 800 | DEF-800 D | DEF-800 AN | PER-800 W | PER-800 CN | - |
| 900/4 | DEF-1000 D | DEF-900 AN | PER-1000 W | PER-1000 CN | - |
| 900/6 | DEF-1000 D | DEF-901 AN | PER-1000 W | PER-1000 CN | - |
| 1000 | DEF-1000 D | DEF-1000 AN | PER-1000 W | PER-1000 CN | - |
| HCFT / 4-1000 / H | DEF-1000 D | DEF-1001 AN | PER-1000 W | PER-1000 CN | - |

* Only can be mounted with HCBT explosion proof versions. For more information see mounting accessories.

■ Electrical accessories



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



REB-5 / REB-10
Single phase electronic speed controllers



RMB/RMT
Single and three phase auto transformer speed controllers



REB-4 Auto
Electronic single phase speed controllers with temperature sensor. For agricultural applications



VFKB
Adjustable frequency drives for three phase motors from 0,37 to 4 kW. 230 V or 400 V



COM D/S
To connect three phase fans with 400 V motor. For three phase models



VFTM IP54
Adjustable frequency drive for three phase motors from 0,37 to 15 kW. 230 V or 400 V



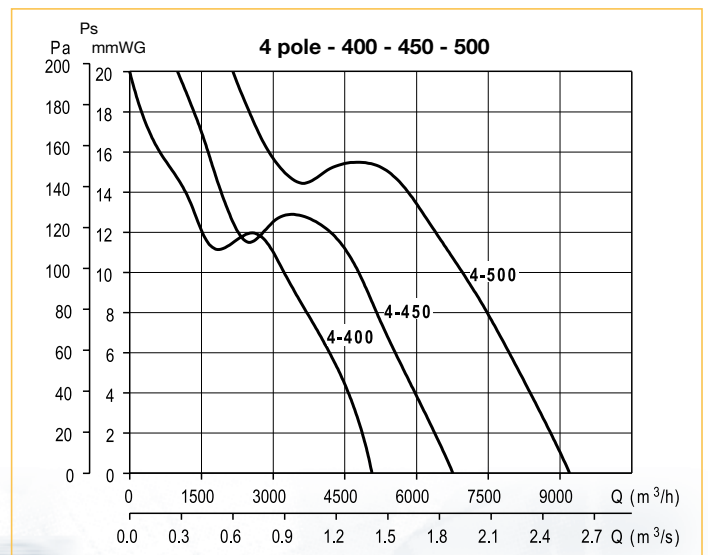
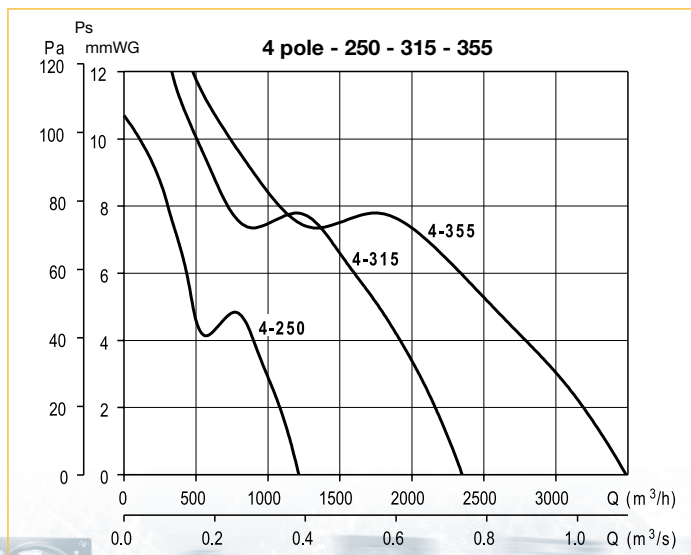
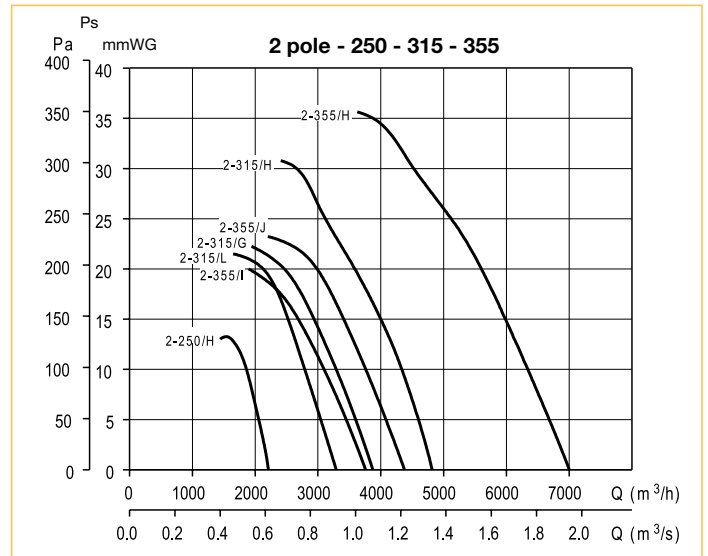
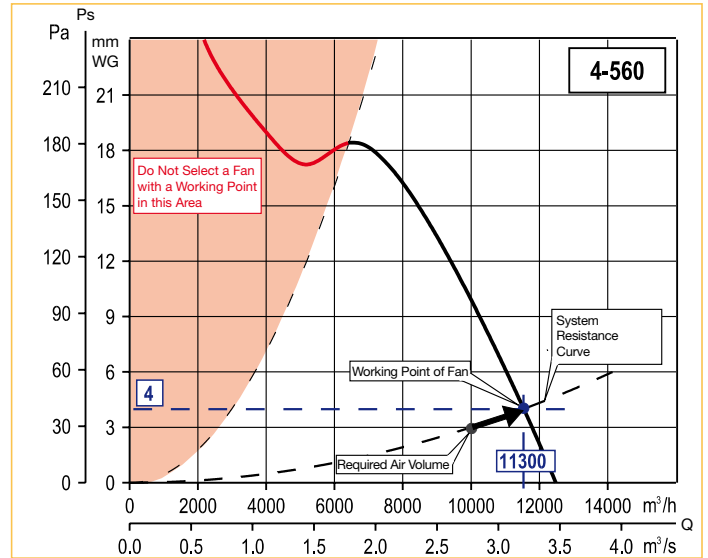
■ Performance curves – HCFB/HCFT – HCBB/HCBT – TCFB/TCFT Series

- Q = Air volume in, m³/hr and m³/s.
- Ps = Static pressure in mmWG and Pa.
- Dry air at 20°C and 760 mmHg.
- Performance data in accordance with ISO 5801 and AMCA 210-99 Standards.

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 10.000 m³/h at 3 mmWG.
Fan working point 11.300 m³/h at 4 mmWG.

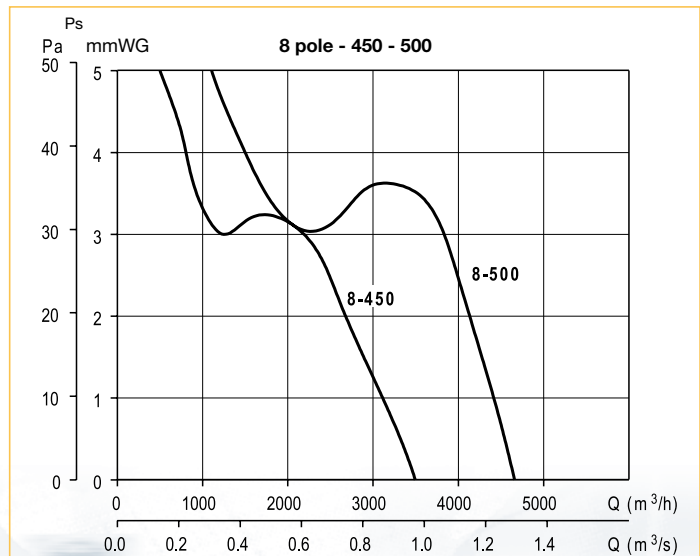
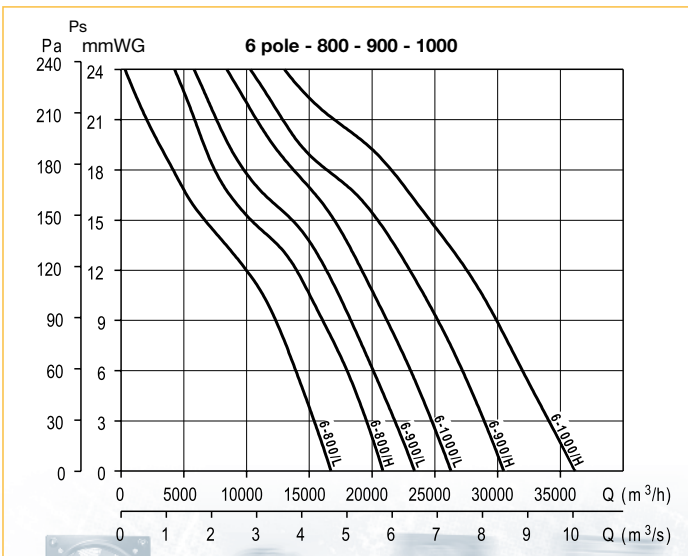
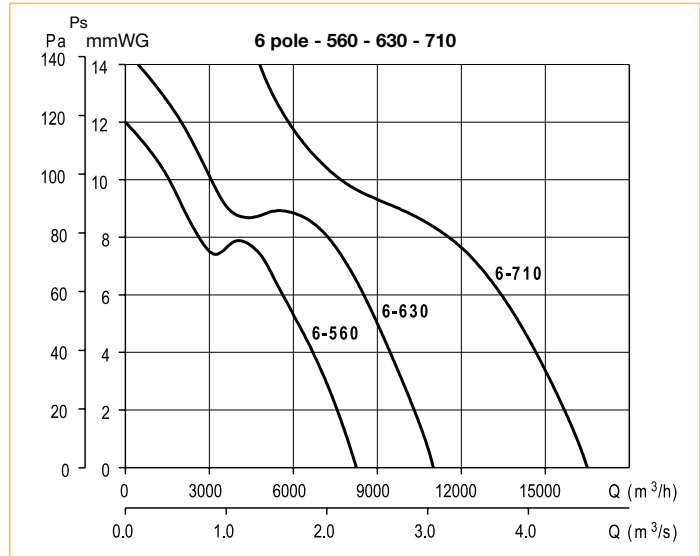
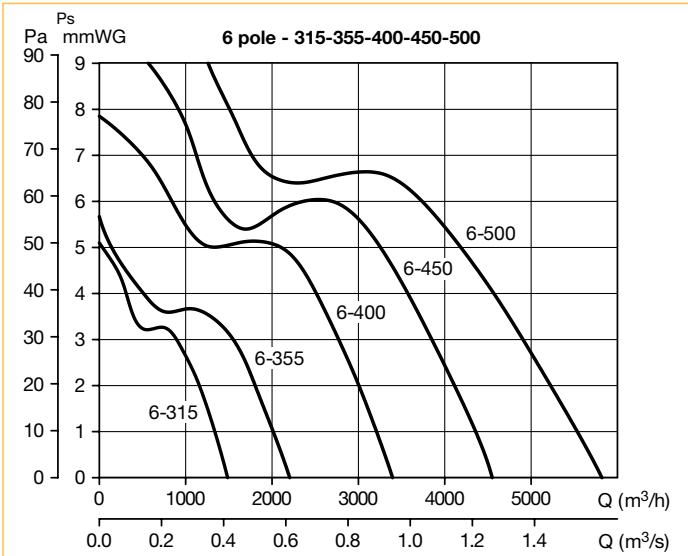
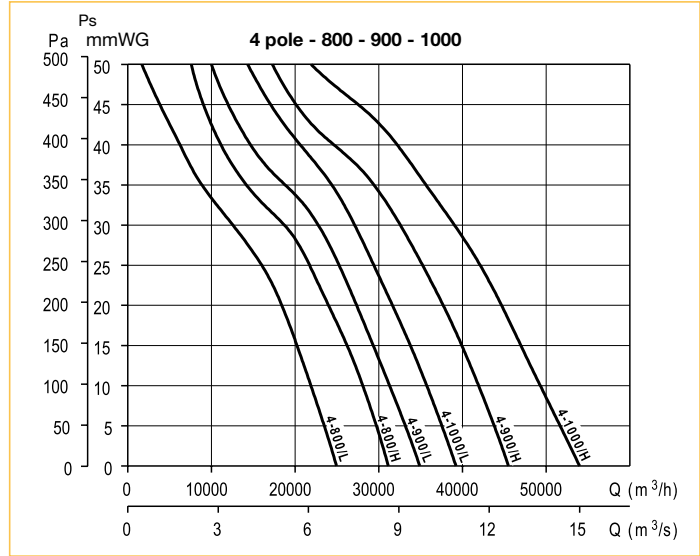
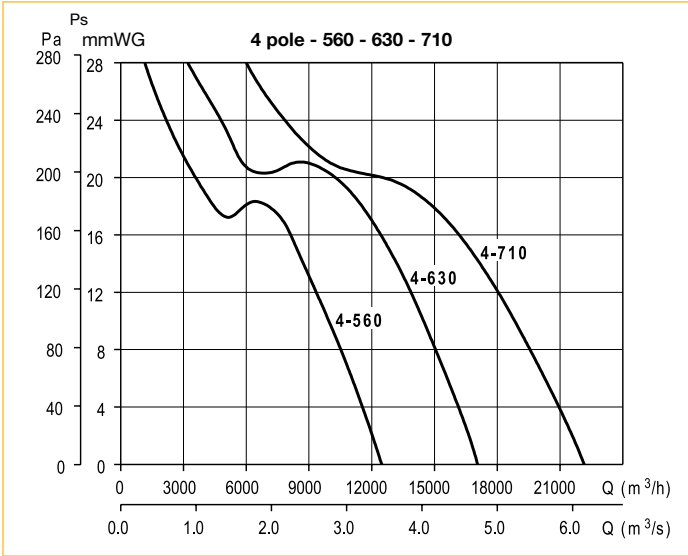


Performance curves - HCFB/HCFT - HCBB/HCBT - TCFB/TCFT Series

- Q = Air volume in, m³/hr and m³/s.
- Ps = Static pressure in mmWG and Pa.
- Dry air at 20°C and 760 mmHg.
- Performance data in accordance with ISO 5801 and AMCA 210-99 Standards.

COMPACT

Plate mounted axial flow fans



■ Performance curves – HCFB/HCFT – HCBB/HCBT – TCFB/TCFT Series

- Q = Air volume in, m³/hr and m³/s.
- Ps= Static pressure in mmWG and Pa.
- Dry air at 20°C and 760 mmHg.
- Performance data in accordance with ISO 5801 and AMCA 210-99 Standards.

