

Plate mounted axial flow fans COMPACT Series type HCBB / HCBT (Aluminium impellers)

HCBT/4-400/H- (230/400V50/60HZ) V3



ATEX versions On request, explosion proof versions in accordance to ATEX Directive for three phase models. -Motors IP55, Class F -ATEX Flameproof-Gas For models 800 to 1000mm



II 2G Ex d IIB T5

-ATEX Increased safety-Gas

Except models HCBT/ 4-250, HCBT/ 6-355, HCBT/ 6-400 Available model HCBT/ 6-400 with 230/400 V motor Available models to HCBT-1000



II 2G Ex e II T3 -ATEX Dust

For models 800 to 1000mm



II 3D Ex to IIIB or IIIC T125°C or T135°C

Working temperatures for ATEX versions: -20°C to +55°C models HCBT/4-315 to HCBT/4-710 models HCBT/6-450 to HCBT 6-710 -20°C to +40°C

model HCBT/4-800 to 1000 model HCBT/6-800 to 1000

To select HCBT ATEX refer to Easyvent. Note electrical data may vary for ATEX motors."







Range of low profile plate mounted axial fans fitted with aluminium impellers and single phase motor (HCBB) or three phase motor (HCBT), IP65 (1), Class F insulation (2), equipped with thermal protection (3).

(1) Models 800, 900 and 1000 are IP55. (2) Working temperatures from -40°C up to +70°C. Except models Ø 800, 900 and 1000 suitable for usage in environments from -20°C to +40°C. (3) Except models Ø 800 to 1000.

Available, depending upon the model, with single or three phase motors in 4 or 6 poles. All motors are speed controllable by autotransformer except models /4-630, B/710, T/4-710, 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).

Additional Information

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

On request

Inlet finger proof guard for models 800 to 1000.

Attributes



Compact design Compact design created by the combination of the motor support and finger proof with the factory matched direct drive wrap around



Corrosion resistance Mounting plate, motor guard protected by cataforesis primer and black



Terminal box Wiring terminal box with cable gland PG-11.



Impeller dynamically balanced Impellers are dynamically balanced, according to ISO 1940 standard, giving



Manufacturing variations Multiple manufacturing variations, depending on the type of installation and use conditions.



Configuration for models

8 800 to 1000Special design of motor over impeller, which provides compactness and tightness IP55.

+ Acoustic characteristics

Hz	63	125	250	500	1k	2k	4k	8k	Overall
Inlet (LwA)	48	61	61	68	72	69	66	57	76
Inlet LpA @ 1,5m	34	47	47	53	58	55	51	43	61

+ Technical characteristics

CONSTRUCTION

Diameter 400 Blades 7 Weight 9 kg

MOTOR CHARACTERISTICS

Number of poles 4 Motor Power

Voltage 230/400~3 Maximum absorbed current 1,1 A / 0,7 A IP Rating IP65 Motor insulation class

+ Supply Voltages and Frequencies ■



SINGLE PHASE 220V 50Hz, 240V 50Hz	230V 50Hz	See wiring diagram	High
THREE PHASE 220V 50Hz	230/400V 50Hz	Δ	△ High ↓ Low*
240V 50Hz	230/400V 50HZ	\downarrow	Low*
THREE PHASE	230/400V 50Hz	\downarrow	High
380V 50Hz 415V 50Hz	400V 50Hz	Δ	High
4107 30112	400¥ 50H2	\downarrow	Low*

^{*} From sizes 450 up to 630 mm diameter.

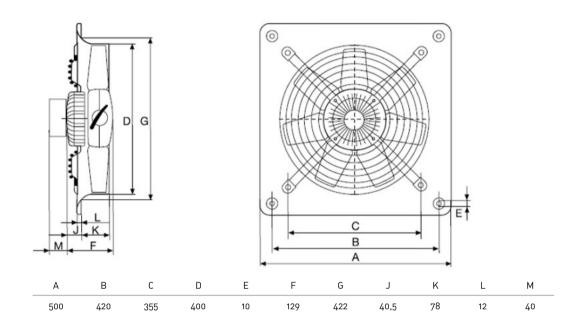


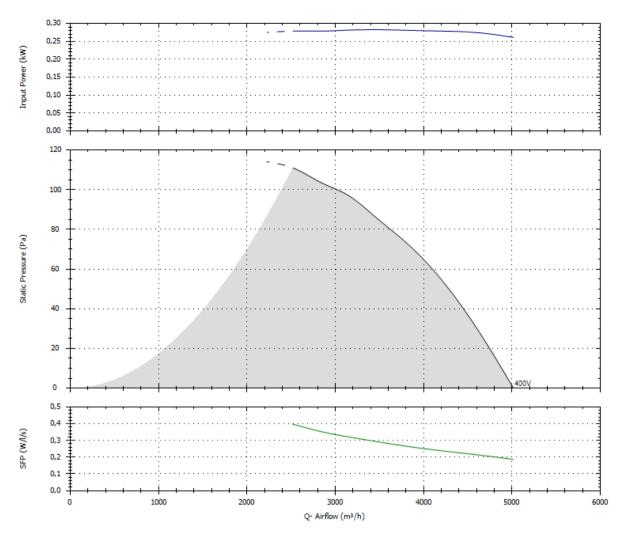
- 1 H: Compact plate axial fan.
- 2 C: Series designation.
- 3 Impeller type:
 - F: Ø 250-Ø 630 Fixed blade plastic impeller.
 - Ø 710 Ø 1000 Aluminium impeller hub + adjustable plastic blade impellers.
 - G: Adjustable plastic blade impellers.
 - B: Ø 250-Ø 400 Fixed blade aluminium impeller Ø 450 - Ø 1000 Adjustable blade aluminium impeller.
- 4 Electrical supply:
 - B: Single phase.
 - T: Three phase.

- 5 Number of poles:
 - 2: (approx. 2900 rpm 50 Hz)
 - 4: (approx. 1400 rpm 50 Hz)
 - 6: (approx. 900 rpm 50 Hz)
- 6 Nominal diameter of impeller (mm).
- 7 Pitch angle.
 - H: High.
 - I, L: Low.
- 8 Direction of air:
 - A: Motor over impeller.
- 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 EExeIIT3 -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.

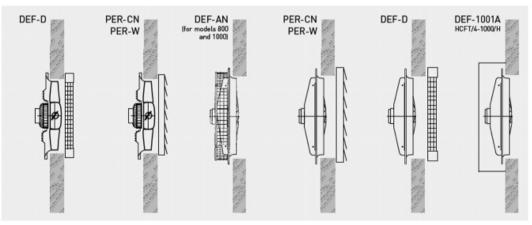
+ Dimensions





+ Mounting Accessoires





Model HCFB/HCFT	Wire Protect	ction Guards	Exhaust Side Louvre Shutters				
HCBB/HCBT 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	-		
/4-900/H	DEF-1000 D	DEF-900 AN	PER-1000 W	PER-1000 CN	-		
/4-900/L	DEF-1000 D	DEF-901 AN	PER-1000 W	PER-1000 CN			
/6-900	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			

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

+ 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.



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



VFKB IP65 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.