



LOW PRESSURE CENTRIFUGAL FANS

CBM Series



Range of double inlet direct driven low pressure centrifugal fans manufactured from **galvanised sheet steel**.

All the models are fitted with forward curved centrifugal impellers manufactured from galvanized sheet steel.

Motors

Housing closed motors, IP44, class F, equipped with thermal protection and ball bearings greased for life.

Electrical supply:

Single phase 230V-50Hz (capacitor fitted on the fan housing).

Three phase 230/400V-50Hz.

(See characteristics chart).

Working temperatures from -20°C to +40°C.

On request

Housing open motors IP20, class F.

Coupling flange fitted at the fan outlet (B version).

Special version kitchen IP55, class F.

Three phase motors suitable for frequency inverter control with motor E22 version.

Anti-vibration mounts



All motors are fitted with support including rubber antivibration mounts **reducing the noise** transmitted to the installation

Impeller dynamically balanced



Impeller dynamically balanced, according to ISO 1940 standard, providing vibration free operation

APPLICATIONS



Incorporation in ventilation cabinets

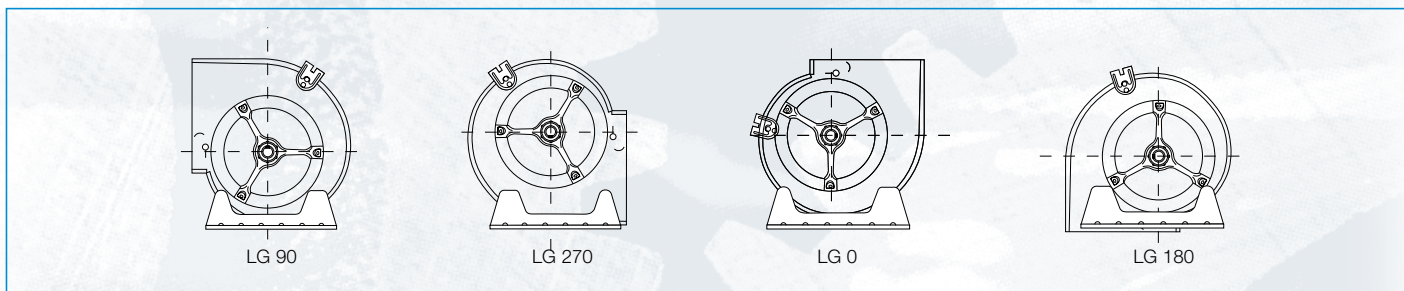


Air conditioning equipment



Applications in machinery

POSITIONS



Mounting feet (accessory) allow 4 positions of the inlet discharge.

Reference

CBM	9/9	373	6P	T	C	VR	K	B8	MP	IP55
1	2	3	4	5	6	7	8	9	10	11

- 1: Product range.
- 2: 7/7, 9/7, 9/9, 10/8, 10/10, 12/9, 12/12, 15/15 dimensions in inches of the turbine (the same range CBP) these dimensions are replacing old ones at mm (180/180, 240/180, 240/240, 270/200, 270/270, 320/240, 320/320, 380/380).
- 3 - Motor Power (W).
- 4 - 2P, 4P, 6P, 8P: Pole number.
- 5 - Nothing: Single phase.
T: Three phase.
- 6 - C: Motor closed (IP44)
RE: External Rotor Motor
- 7 - Nothing: 1 speed - not adjustable fan
2V: fan with 2 speed motor
3V: fan with 2 speed motor
VR: motor fan with adjustable tension.
EC-0-10V, EC-CK, EC-PK, EC-CK/DG: motor fan with electronic control.
- 8 - Nada: CBM estándar
K: CBM cubic structure with reinforcement.
- 9 - Nothing: Standard CBM.
B10, B11, B5, B7, B8, B9, BE: CBM with flange. The number indicates the diameter of the fixing holes.
- 10 - Nothing: Product on individual packing.
MP: Multi product palletizing.
- 11 - IP rating.

Technical characteristics

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.

Model	Motor power		Equiv. in inches	Poles	Capacitor	Maximum absorbed current (A)		Airflow (m ³ /h)	Sound pressure level* (dB(A))	Weight (Kg)	Speed controller		Inverter controller
	(W)	(CV)				(μF / V)	230V/1/50Hz				230-400V/3/50Hz	REB	
CBM-7/7 72W 6P C VR	72	1/10	7/7	6	3/450	0,77	-	1395	55	9	1	RMB-1,5	-
CBM-7/7 147W 4P C VR	147	1/5	7/7	4	5/450	1,55	-	1540	57	10	2,5	RMB-3,5	-
CBM-9/7 122W 6P C VR	122	1/6	9/7	6	6/450	1,30	-	2170	60	16	2,5	RMB-1,5	-
CBM-9/7 245W 6P C	247	1/3	9/7	6	10/450	2,04	-	2600	64	16	-	-	-
CBM-9/9 122W 6P C VR	122	1/6	9/9	6	6/450	2,05	-	2360	60	17	2,5	RMB-3,5	-
CBM-9/9 245W 6P C VR	247	1/3	9/9	6	10/450	2,23	-	2860	64	17	2,5	RMB-3,5	-
CBM-9/9 373W 4P C VR	373	1/2	9/9	4	10/450	3,85	-	2770	66	19	5	RMB-8	-
CBM-10/8 245W 6P C VR	247	1/3	10/8	6	10/450	2,30	-	2730	62	18	2,5	RMB-3,5	-
CBM-10/8 373W 6P C	373	1/2	10/8	6	15/450	4,15	-	4100	73	19	-	-	-
CBM-10/8 373W 4P C	373	1/2	10/8	4	25/400	4,50	-	3280	67	19	-	-	-
CBM-10/10 245W 6P C VR	245	1/3	10/10	6	10/450	2,35	-	3080	60	21	2,5	RMB-3,5	-
CBM-10/10 373W 6P C VR	373	1/2	10/10	6	15/450	4,40	-	4700	70	21	5	RMB-8	-
CBM-10/10 550W 4P C VR	550	3/4	10/10	4	25/450	4,40	-	3300	66	23	5	RMB-8	-
CBM-12/9 550W 6P C VR	550	3/4	12/9	6	18/450	6,00	-	4770	67	28	10	RMB-8	-
CBM-12/9 1100W 6PT C	1100	1,5	12/9	6	-	-	7,1/4,1	6300	73	28	-	-	VFTM TRI 2,2
CBM-12/12 550W 6P C VR	550	3/4	12/12	6	18/450	5,30	-	4740	66	30	10	RMB-8	-
CBM-12/12 1100W 6PT C	1100	1,5	12/12	6	-	-	7,3/4,2	7420	74	30	-	-	VFTM TRI 2,2
CBM-15/15 2200W 6PT C K IP55	2200	3	15/15	6	-	-	8,8/5,1	8950	72	45	1	-	VFTM TRI 2,2

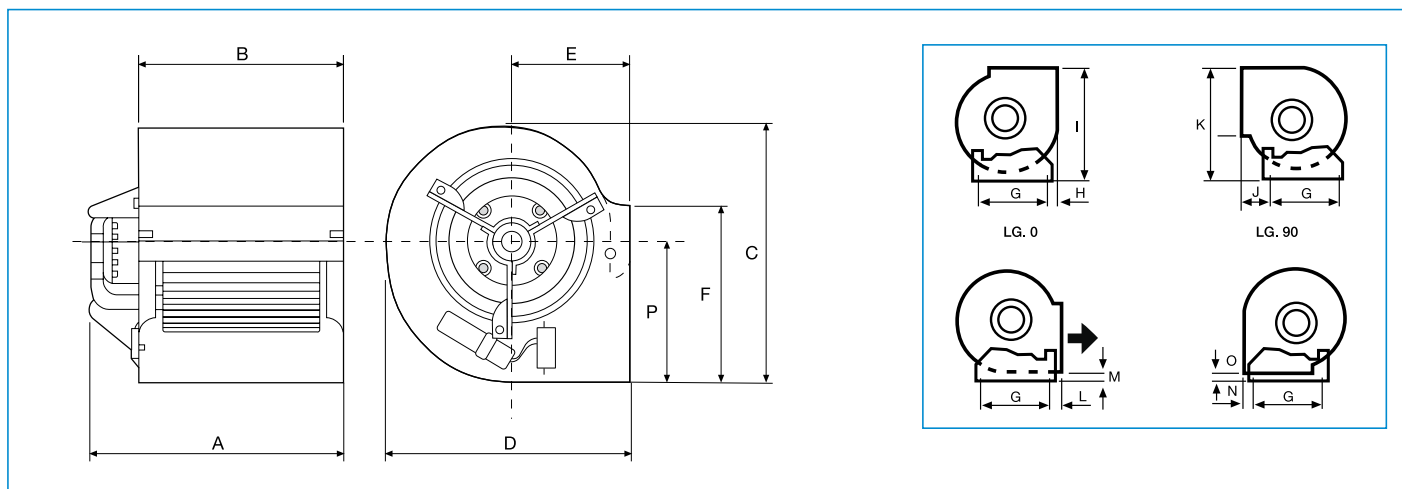
* Sound pressure levels in dB(A), measured at 1,5 meters at the fan inlet side in free field.

CBM

Low pressure centrifugal fans

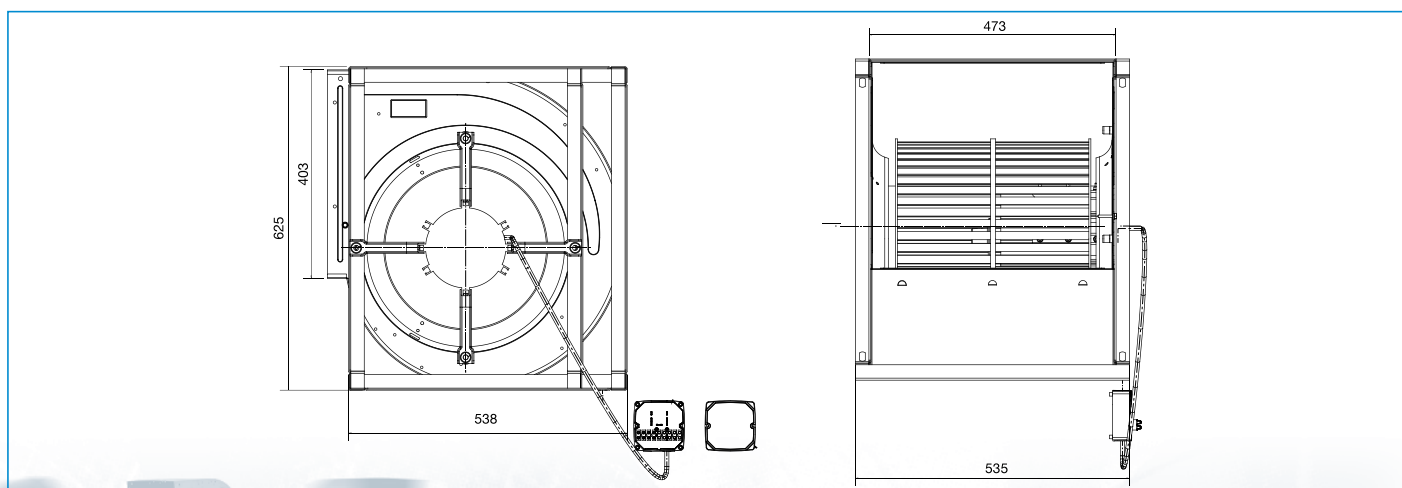


■ Dimensions (mm)

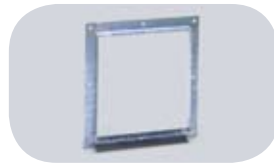


Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
CBM-7/7 72W 6P C VR	270	233	327	308	145	207	225	47,6	314	57	333	28	16,4	8,6	6	187
CBM-7/7 147W 4P C VR	284	233	327	308	145	207	225	47,6	314	57	333	28	16,4	8,6	6	187
CBM-9/7 122W 6P C VR	306	234	390	381	184	260	296	34,5	382	69	395,5	68,5	39	34,5	6	221
CBM-9/7 245W 6P C	318	234	390	381	184	260	296	34,5	382	69	395,5	68,5	39	34,5	6	221
CBM-9/9 122W 6P C VR CBM-9/9 245W 6P C VR CBM-9/9 373W 4P C VR	348	300	390	381	184	260	296	34,5	382	69	395,5	68,5	39	34,5	6	221
CBM-10/8 245W 6P C VR CBM-10/8 373W 4P C	328	267	443	423	200	288	339	39	427	67	451,5	67	40	39	8	249
CBM-10/8 373W 6P C	367	267	443	423	200	288	339	39	427	67	451,5	67	40	39	8	249
CBM-10/10 245W 6P C VR	377	333	443	423	200	288	339	39	427	67	451,5	67	40	39	8	249
CBM-10/10 373W 6P C VR	418	333	443	423	200	288	339	39	427	67	451,5	67	40	39	8	249
CBM-10/10 550W 4P C VR	430	333	443	423	200	288	339	39	427	67	451,5	67	40	39	8	249
CBM-12/9 550W 6P C VR	419	311	521	490	229	341	407	40,5	496,5	69,5	528,5	69,5	38,5	41,5	4,5	293
CBM-12/9 1100W 6PT C	416	311	521	490	229	341	407	40,5	496,5	69,5	528,5	69,5	38,5	41,5	4,5	293
CBM-12/12 550W 6P C VR	459	396	521	490	229	341	407	40,5	496,5	69,5	528,5	69,5	38,5	41,5	4,5	293
CBM-12/12 1100W 6PT C	460	396	521	490	229	341	407	40,5	496,5	69,5	528,5	69,5	38,5	41,5	4,5	293

■ Dimensions CBM-T-15/15 (mm)



■ Mounting accessories



Outlet flange CBM



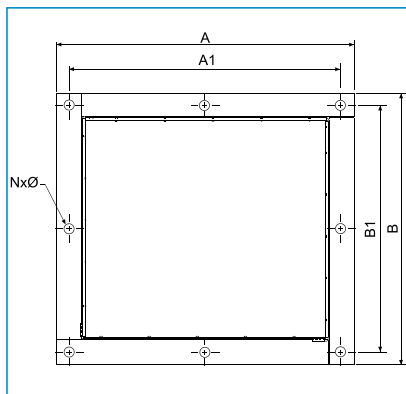
Mounting feet



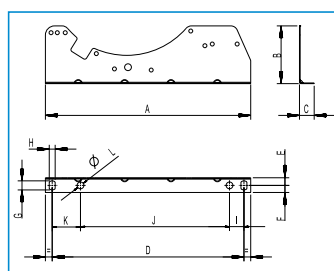
Inlet guard

Model	Outlet flange CBM	Mounting feet	Inlet guard
CBM-7/7	Brida desc. CBM-7/7	PIE SOPORTE CBP/CBM 7/7	DEF-CBM-7
CBM-9/7	Brida desc. CBM-9/7	PIE SOPORTE CBP/CBM 9/9	DEF-CBM-9
CBM-9/9	Brida desc. CBM-9/9	PIE SOPORTE CBP/CBM 9/9	DEF-CBM-9
CBM-10/8	Brida desc. CBM-10/8	PIE SOPORTE CBP/CBM 10/10	DEF-CBM-10
CBM-10/10	Brida desc. CBM-10/10	PIE SOPORTE CBP/CBM 10/10	DEF-CBM-10
CBM-12/9	Brida desc. CBM-12/9	PIE SOPORTE CBP/CBM 12/12	DEF-CBM-12
CBM-12/12	Brida desc. CBM-12/12	PIE SOPORTE CBP/CBM 12/12	DEF-CBM-12
CBM-15/15	-	-	DEF-CBM-15

■ Accessories dimensions



Outlet flange CBM	A	A1	B	B1	NxØ (mm)
Brida desc. CBM-7/7	289	264	265	240	8x9
Brida desc. CBM-9/7	273	253	302	280	8x9
Brida desc. CBM-9/9	360	328	315	285	8x10
Brida desc. CBM-10/8	314	293	339	316	8x9
Brida desc. CBM-10/10	380,5	359	339	316	8x9
Brida desc. CBM-12/9	362	341	394,5	374	8x9
Brida desc. CBM-12/12	447	426	394,5	374	8x9



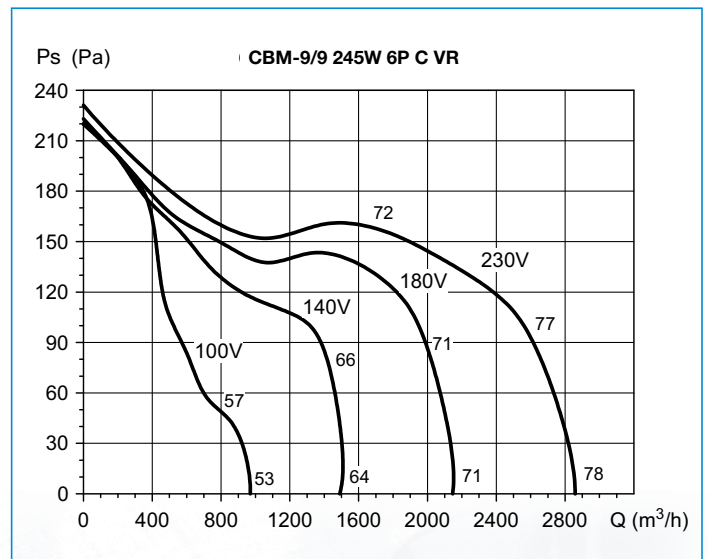
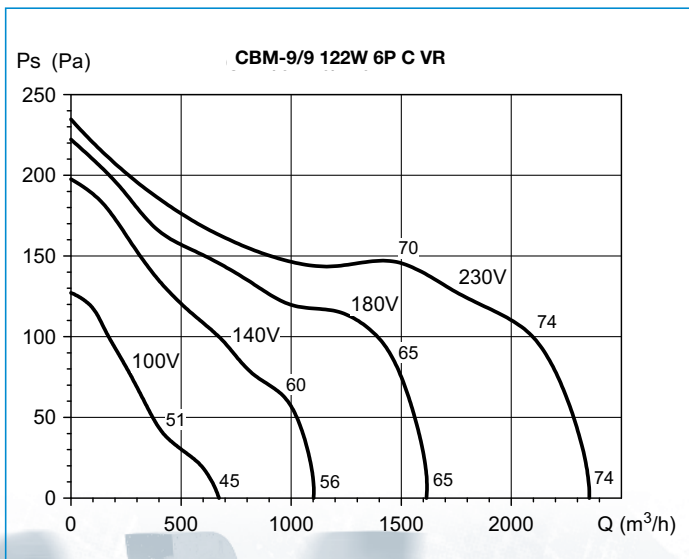
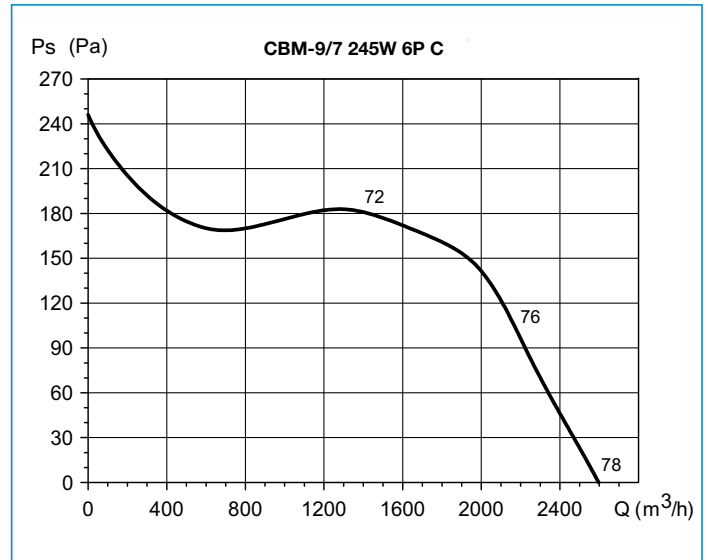
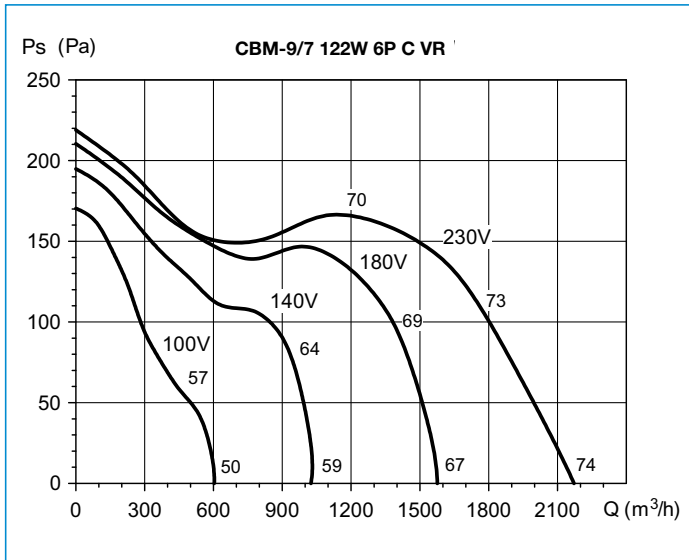
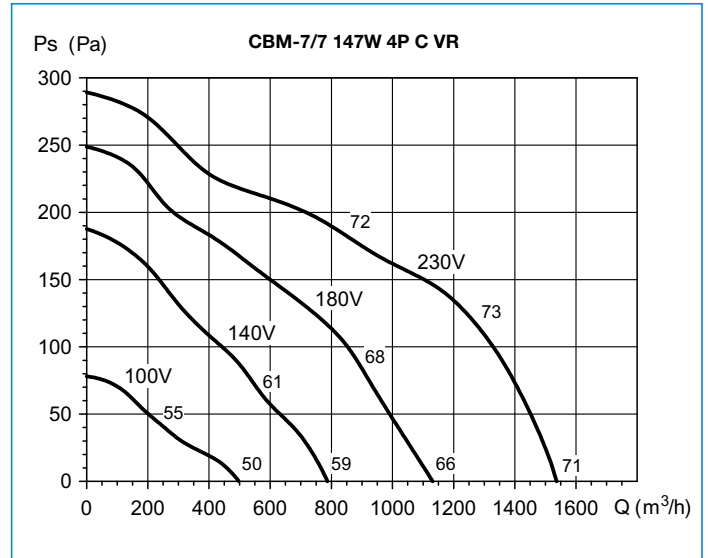
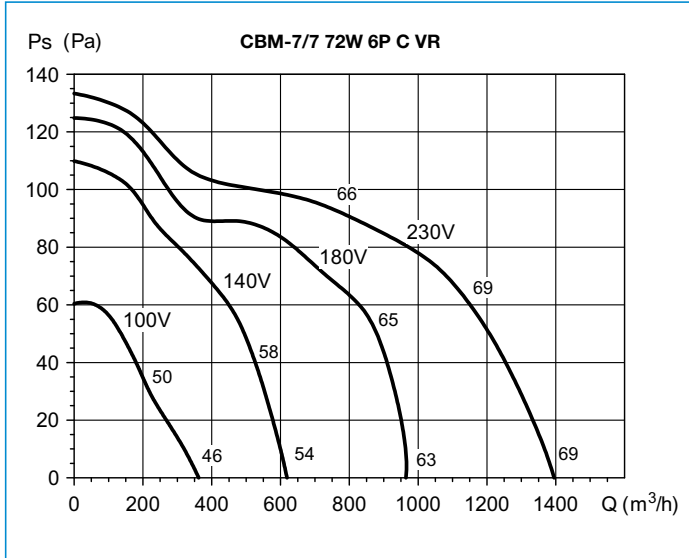
Model	A	B	C	D	E	F	G	H	I	J	K	L
7/	254	47	26	227	13,5	12,5	16	10,5	15	195	15	12
9/	325	102	26	297	13,5	12,5	16	10,5	-	-	35,7	10,5
10/	363	102	26	339	13,5	12,5	16	10,5	37,5	263,5	62	12
12/	434	144	26	407	13,5	12,5	16	10,5	48	333,5	25,5	12

Mounting feet



Performance curves

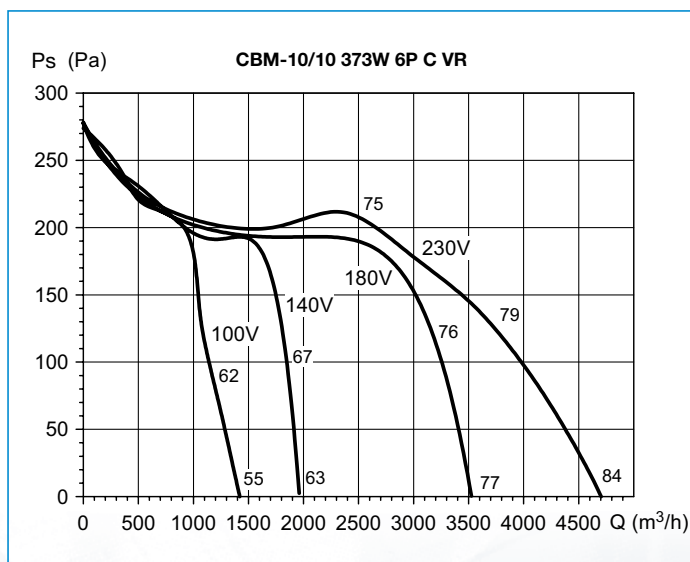
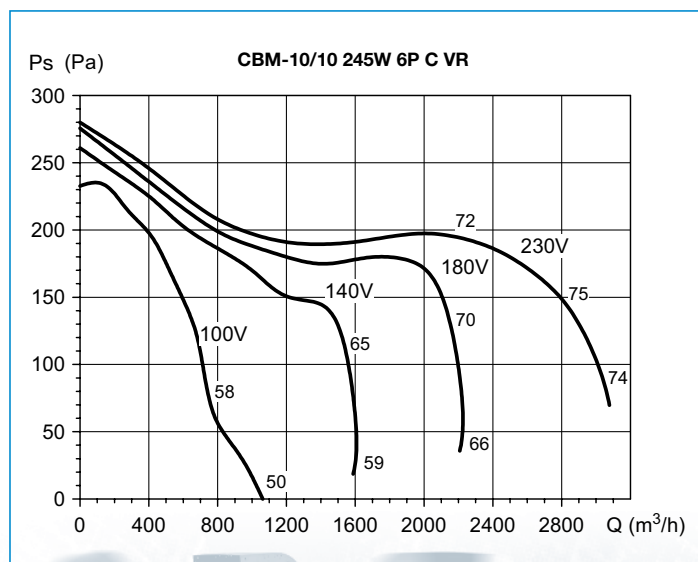
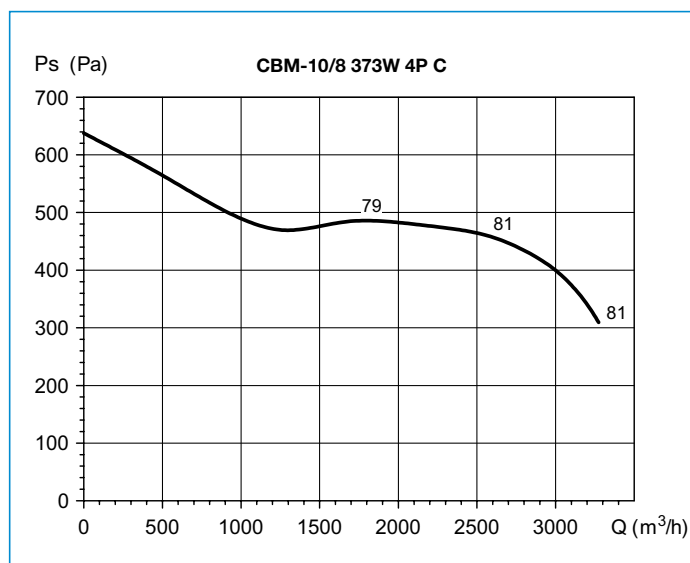
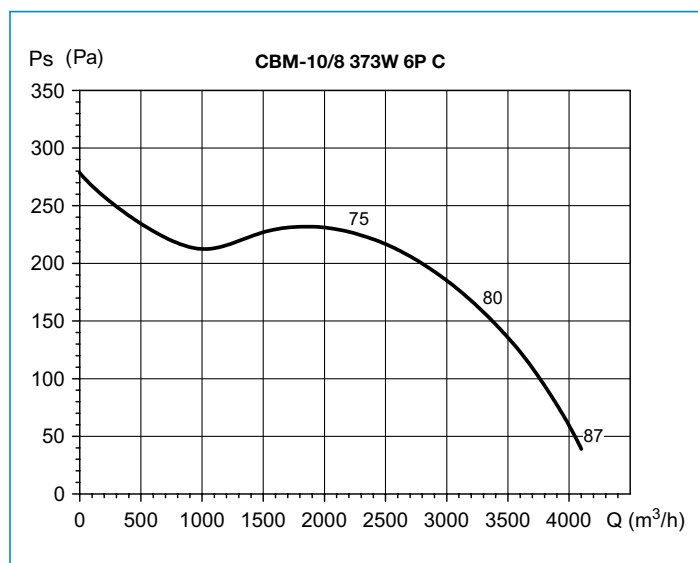
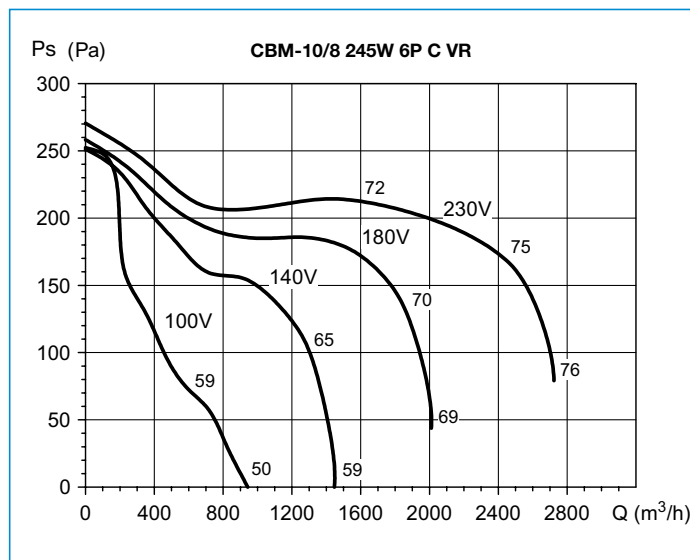
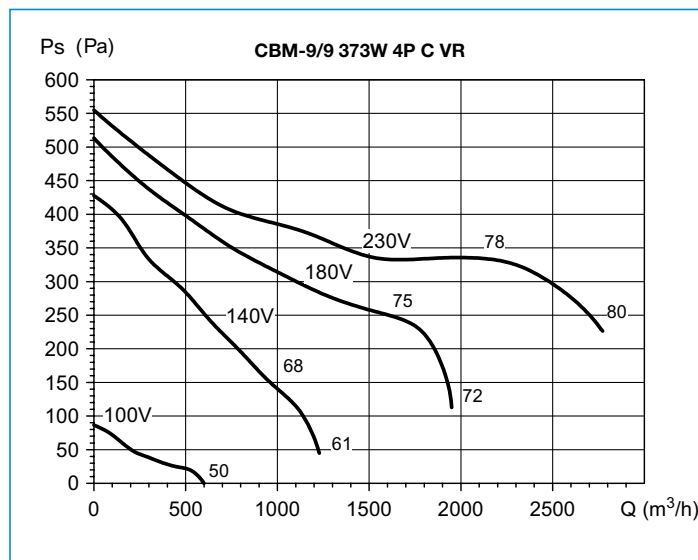
- Q = Air volume in, m³/hr and m³/s.
- Ps = Static pressure in mmWG and Pa.
- Dry air at 20°C and 760 mmHg.
- Performance data in accordance with ISO 5801 and AMCA 210-99 Standards.



Curves at different voltages are obtained with a transformer type speed controller.

Performance curves

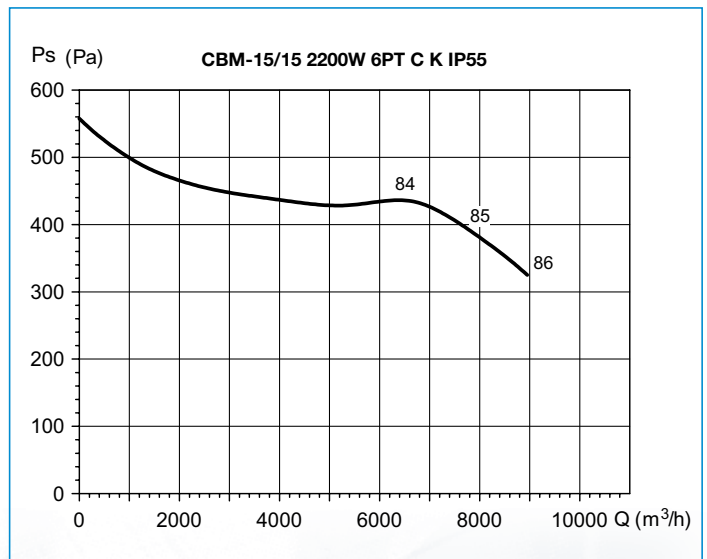
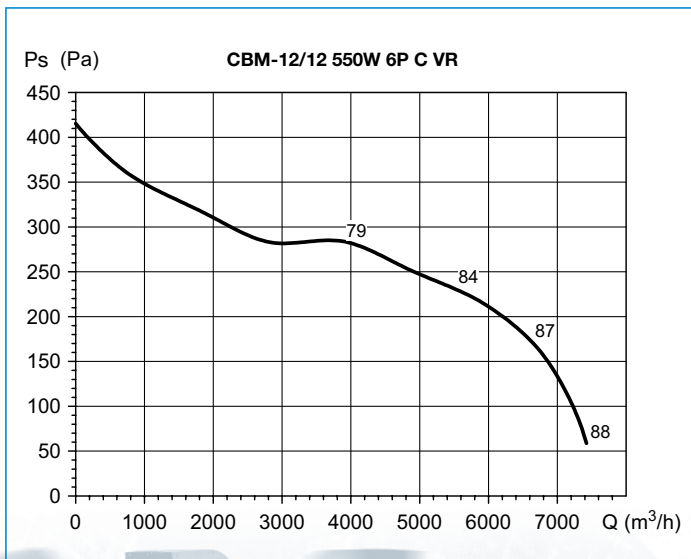
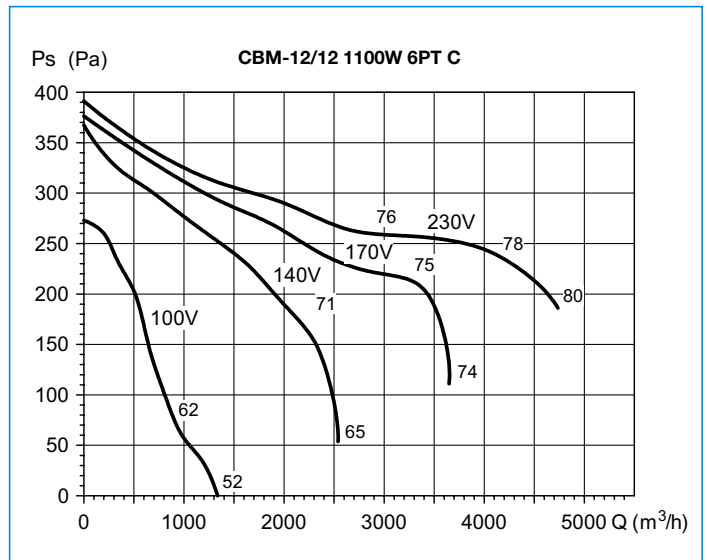
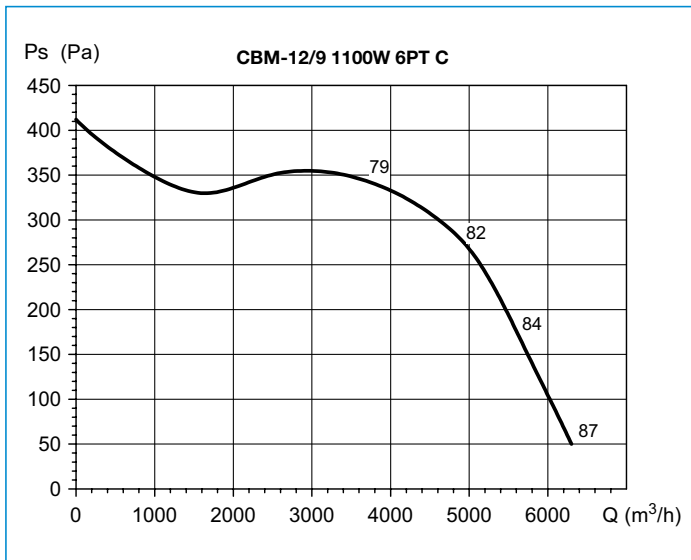
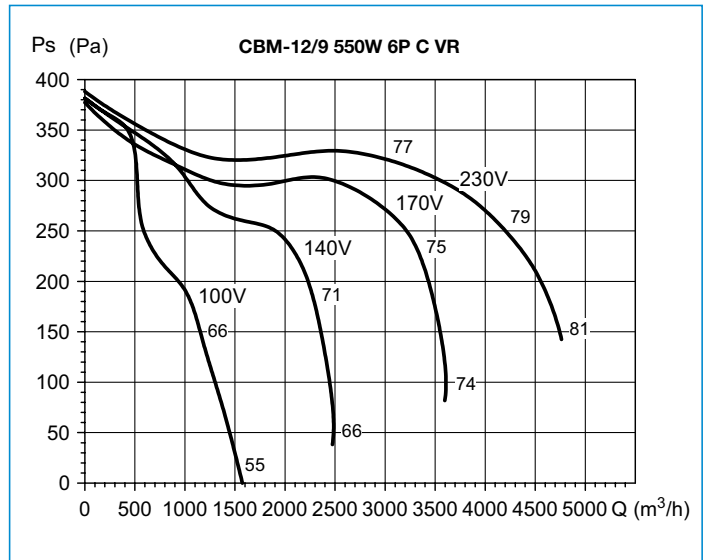
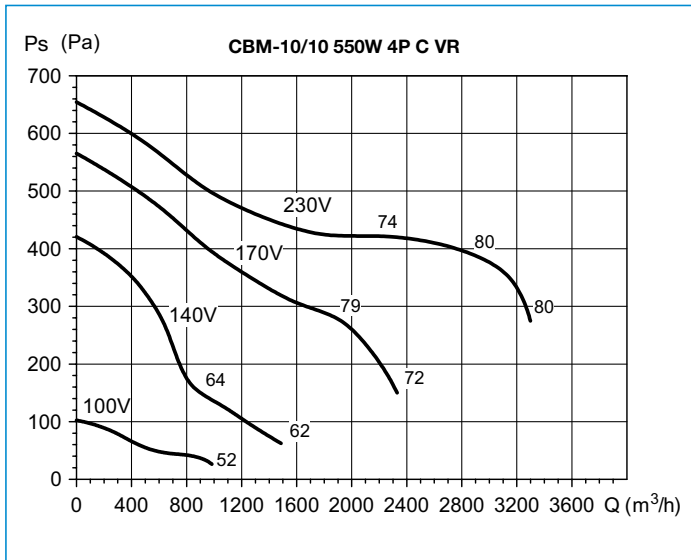
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