



Range of low profile plate mounted axial fans fitted with plastic impellers with fiberglass, single phase motor (HCFB) or three phase motor (HCFT), IP65 (1), Class F insulation (2), equipped with thermal protection (3).

(1) Ø 800, 900 and 1000 models are IP55.

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

(3) Except models 800 to 1000.

**Motors**

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

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].

**Additional information**

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

**On request**

Inlet finger proof guard for models Ø 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.



**Manufacturing variations**

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



**Configuration for models Ø 800 to 1000**

Special design of motor over impeller, which provides compactness and tightness IP55.



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.

**Motors**

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 Ø 800 to 1000.

**ATEX Versions**

- On request, explosion proof versions in accordance to ATEX Directive for three phase models:
- Increased safety II2G EExIIIT3  
 except models 250 and models /6 to 400 diameter (available for model /6-400 with motor 230/400V-50Hz).
  - Flame proof only for models 800 to 1000, II2G EExdIIBT5 or II2G EExdIICT4.  
 II3D Ex tD 125°C or 135°C.
  - IP55 motors and Class F.
- Working temperatures from ATEX versions:
- From -20°C to +55°C: models /4, 315 to 710 models /6, 450 to 710
  - From -20°C to +40°C: model /4-800 model /6-800
- The consumption data (A, W) of ATEX products may vary from the data shown in technical characteristic charts.



**Specific applications**



Versions



**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.



**Manufacturing variations**

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



**Configuration for models Ø 800 to 1000**

Special design of motor over impeller, which provides compactness and tightness IP55.

## REFERENCE

<b>H</b>	<b>C</b>	<b>F</b>	<b>T</b>	/	<b>4</b>	-	<b>4</b>	<b>0</b>	<b>0</b>	/	<b>H</b>	<b>A</b>				<b>8</b>	<b>9</b>
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 + 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 EExII T3
  - EXD: Flame proof, only for models 800 and 1000 @ II2G EExd IIB T5 or EExd IIC T4
- G:** Special corrosion treatment for agricultural applications.
- TF:** With anticorrosive Teflon paint finish.

## SUPPLY VOLTAGES AND FREQUENCIES



Mains supply voltage	Motor type	Connection	Speed
<b>SINGLE PHASE</b> 220V 50Hz, 240V 50Hz	230V 50Hz	See wiring diagram	High
<b>THREE PHASE</b> 220V 50Hz 240V 50Hz	230/400V 50Hz		High
			Low*
<b>THREE PHASE</b> 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 and performance curves, 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 and the point of maximum flow.

Model	63	125	250	500	1000	2000	4000	8000	LwA
HCGB/2-315	50	61	68	70	72	69	64	58	77
HCGT/2-315	55	66	73	75	77	74	69	63	82
HCGB/2-355	55	66	73	75	77	74	69	63	82
HCGT/2-355	55	70	69	77	82	78	73	66	85

Model	63	125	250	500	1000	2000	4000	8000	LwA
/4-250/H	31	45	52	57	58	57	52	44	63
/4-315/H	42	53	60	62	64	61	56	50	69
/4-355/H	43	58	57	65	70	66	61	54	73
/4-400/H	48	61	62	68	73	69	66	57	76
/4-450/H	46	65	62	68	75	74	69	62	79
/4-500/H	49	68	68	74	78	76	72	65	82
/4-560/H	57	70	74	78	80	78	74	67	85
/4-630/H	57	72	76	81	85	82	79	72	89
/4-710/H	58	75	83	85	87	85	81	72	92
/4-800/L	58	77	87	93	93	89	83	76	97
/4-800/H	64	83	93	99	99	95	89	82	103
/4-900/L	59	81	91	97	98	94	88	80	102
/4-900/H	64	86	96	102	103	99	93	85	107
/4-1000/L	62	85	95	101	102	98	93	84	106
/4-1000/H	69	92	102	107	109	105	100	90	113

Model	63	125	250	500	1000	2000	4000	8000	LwA
/6-315/H	32	43	50	52	54	51	46	40	59
/6-355/H	32	47	46	54	59	55	50	43	62
/6-400/H	37	50	51	57	62	58	55	46	65
/6-450/H	35	54	51	57	64	63	58	51	68
/6-500/H	38	57	57	63	67	65	61	54	71
/6-560/H	46	59	63	67	69	67	63	56	74
/6-630/H	46	61	65	70	74	71	68	61	78
/6-710/H	49	66	74	76	78	76	72	63	83
/6-800/L	52	71	81	87	87	83	77	70	91
/6-800/H	54	73	83	89	89	85	79	72	93
/6-900/L	51	73	83	89	90	86	80	72	94
/6-900/H	55	77	87	93	94	90	84	76	98
/6-1000/L	56	78	89	94	96	92	86	77	100
/6-1000/H	60	83	93	99	100	96	91	82	104

**TECHNICAL CHARACTERISTICS WITH PLASTIC IMPELLERS**

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 (rpm)	Maximum absorbed power (W)	Maximum current (A)		Sound pressure level* (dB(A))	Maximum airflow (m³/h)	Weight (kg)	Speed controller		Inverter control	
			230 V	400 V				REB	RMB/T**	VFTM**	VFKB**
SINGLE PHASE 2 POLE											
HCGB/2-315/I	2690	374	1,6		63	3.240	7	-	-		
HCGB/2-355/I	2720	383	1,6		68	3.550	8	-	-		
SINGLE PHASE 4 POLE											
HCFB/4-250/H	1380	77	0,3		49	1.090	5	REB-1	RMB-1,5		
HCFB/4-315/H	1340	125	0,6		55	2.220	7	REB-1	RMB-1,5		
HCFB/4-355/H	1415	168	0,8		59	3.450	8	REB-2,5	RMB-1,5		
HCFB/4-400/H	1420	271	1,2		62	4.890	9	REB-2,5	RMB-3,5		
HCFB/4-450/H	1380	463	1,9		65	6.650	13	REB-2,5	RMB-3,5		
HCFB/4-500/H	1400	675	2,9		68	8.810	16	REB-5	RMB-3,5		
HCFB/4-560/H	1410	1102	4,7		70	12.980	22	REB-5	RMB-8		
HCFB/4-630/H	1380	1573	7,1		73	17.230	25	-	-		
SINGLE PHASE 6 POLE											
HCFB/6-315/H	990	80	0,4		45	1.560	7	REB-1	RMB-1,5		
HCFB/6-355/H	920	81	0,4		48	2.250	8	REB-1	RMB-1,5		
HCFB/6-400/H	885	100	0,4		51	2.980	9	REB-1	RMB-1,5		
HCFB/6-450/H	895	164	0,7		54	4.390	13	REB-2,5	RMB-1,5		
HCFB/6-500/H	905	219	1,0		57	5.820	16	REB-2,5	RMB-3,5		
HCFB/6-560/H	905	321	1,3		59	8.120	22	REB-2,5	RMB-3,5		
HCFB/6-630/H	925	510	2,8		62	11.310	25	REB-5	RMB-3,5		
THREE PHASE 2 POLE											
HCGT/2-315/L	2660	437	2,3	1,3	68	3650	7	-	-	VFTM-Tri 0,37	VFKB-45
HCGT/2-355/I	2575	497	2,4	1,4	71	4440	8	-	-	VFTM-Tri 0,37	VFKB-45
THREE PHASE 4 POLE											
HCFT/4-250/H	1365	73	0,3	0,2	49	1.110	5		RMT-1,5	VFTM-Tri 0,37	VFKB-45
HCFT/4-315/H	1340	124	0,5	0,3	55	2.170	7		RMT-1,5	VFTM-Tri 0,37	VFKB-45
HCFT/4-355/H	1380	164	1,4	0,8	59	3.370	8		RMT-1,5	VFTM-Tri 0,37	VFKB-45
HCFT/4-400/H	1370	250	1,7	1,0	62	4.740	9		RMT-1,5	VFTM-Tri 0,37	VFKB-45
HCFT/4-450/H	1380	449	2,6	1,5	65	6.640	13		RMT-1,5	VFTM-Tri 0,37	VFKB-45
HCFT/4-500/H	1460	767	3,5	2,0	68	9.750	16		RMT-2,5	VFTM-Tri 0,55	VFKB-45
HCFT/4-560/H	1405	1051	3,7	2,1	70	12.280	22		RMT-2,5	VFTM-Tri 0,75	VFKB-45
HCFT/4-630/H	1425	1582	5,0	2,9	73	17.900	25		-	VFTM-Tri 1,1	VFKB-45
HCFT/4-710/H	1375	2413	7,4	4,3	74	22.140	27		-	VFTM-Tri 1,5	VFKB-45
HCFT/4-800/L-X (1,5 kW)	1420	2308	6,6	3,8	78	22.750	37		-	VFTM-Tri 1,5	VFKB-45
HCFT/4-800/H-X (3 kW)	1450	4344	12,5	7,2	84	33.410	52		-	VFTM-Tri 4	VFKB-48
HCFT/4-900/L-X (3 kW)	1460	3845	11,3	6,5	82	25.550	94		-	VFTM-Tri 3	VFKB-48
HCFT/4-900/H-X (5,5 kW)	1460	7090		12,3	87	45.550	110		-	VFTM-Tri 5,5	-
HCFT/4-1000/L-X (3 kW)	1440	5098	14,2	8,2	86	38.800	67		-	VFTM-Tri 3	VFKB-48
HCFT/4-1000/H-X (5,5 kW)	1450	8053		13,5	93	47.380	95		-	VFTM-Tri 5,5	-
THREE PHASE 6 POLE											
HCFT/6-355/H	925	83	0,3	0,2	48	2.260	8		RMT-1,5	VFTM-Tri 0,37	VFKB-45
HCFT/6-400/H	880	107	0,5	0,3	51	3.070	9		RMT-1,5	VFTM-Tri 0,37	VFKB-45
HCFT/6-450/H	945	179	0,9	0,5	54	4.530	13		RMT-1,5	VFTM-Tri 0,37	VFKB-45
HCFT/6-500/H	920	232	1,0	0,6	57	6.060	16		RMT-1,5	VFTM-Tri 0,37	VFKB-45
HCFT/6-560/H	925	337	1,2	0,7	59	8.320	22		RMT-1,5	VFTM-Tri 0,37	VFKB-45
HCFT/6-630/H	920	534	2,1	1,2	62	11.400	25		RMT-1,5	VFTM-Tri 0,37	VFKB-45
HCFT/6-710/G	955	888	4,5	2,6	65	16.160	27		RMT-5	VFTM-Tri 1,5	VFKB-45
HCFT/6-800/L-X (0,55 kW)	940	1042	3,5	2,0	73	18.310	31		-	VFTM-Tri 0,75	VFKB 45
HCFT/6-800/H-X (0,75 kW)	945	1160	3,8	2,2	75	19.960	36		-	VFTM-Tri 1,1	VFKB 45
HCFT/6-900/L-X (1,1 kW)	965	1266	4,7	2,7	74	23.160	86		-	VFTM-Tri 1,5	VFKB 45
HCFT/6-900/H-X (1,5 kW)	955	2202	7,1	4,1	78	31.720	93		-	VFTM-Tri 1,5	VFKB 45
HCFT/6-1000/L-X (1,1 kW)	940	1749	5,7	3,3	79	28.970	54		-	VFTM-Tri 1,5	VFKB 45
HCFT/6-1000/H-X (1,5 kW)	945	2627	8,1	4,7	84	37.980	62		-	VFTM-Tri 2,2	VFKB 45

\* Sound pressure level measured in free field conditions at a distance equivalent to three times the diameter of the impeller with a minimum of 1,5 meters.

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

**TECHNICAL CHARACTERISTICS WITH ALUMINIUM IMPELLERS**

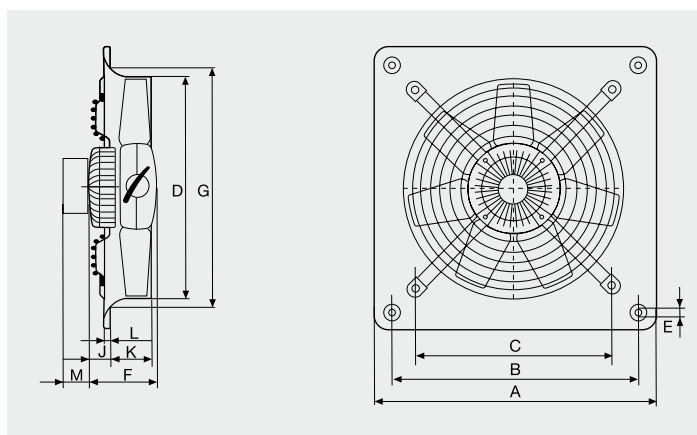
Before making any electrical connection ensure that the voltage and frequency of the mains electrical supply matches that of the fan data plate label.

Model	Speed (rpm)	Maximum absorbed power (W)	Maximum current (A)		Sound pressure level* (dB(A))	Maximum airflow (m³/h)	Weight (kg)	Speed controller		Inverter control	
			230 V	400 V				REB	RMB/T**	VFTM**	VFKB**
SINGLE PHASE 4 POLE											
HCBB/4-250/H	1325	84	0,4		49	1.130	5	REB-1	RMB-1,5		
HCBB/4-315/H	1295	140	0,7		55	2.310	7	REB-1	RMB-1,5		
HCBB/4-355/H	1385	193	0,9		59	3.560	8	REB-2,5	RMB-1,5		
HCBB/4-400/H	1360	315	1,5		62	4.830	9	REB-2,5	RMB-3,5		
HCBB/4-450/H	1410	626	2,8		65	7.180	13	REB-5	RMB-3,5		
HCBB/4-500/H	1365	787	3,4		68	8.810	16	REB-5	RMB-3,5		
HCBB/4-560/H	1370	1266	5,7		70	12.580	22	REB-10	RMB-8		
HCBB/4-630/H	1360	1879	8,3		71	16.550	25	-	-		
SINGLE PHASE 4 POLE											
HCBB/6-355/H	910	84	0,4		48	2.230	8	REB-1	RMB-1,5		
HCBB/6-400/H	845	112	0,5		51	3.010	9	REB-1	RMB-1,5		
HCBB/6-450/H	880	178	0,8		54	4.400	13	REB-2,5	RMB-1,5		
HCBB/6-500/H	910	276	1,2		57	5.900	16	REB-2,5	RMB-3,5		
HCBB/6-560/H	905	456	1,9		59	8.880	22	REB-2,5	RMB-3,5		
HCBB/6-630/H	910	614	3,0		62	10.580	25	REB-5	RMB-3,5		
THREE PHASE 4 POLE											
HCBT/4-250/H	1330	81	0,3	0,2	49	1.120	5		RMT-1,5	VFTM-Tri 0,37	VFKB-45
HCBT/4-315/H	1320	162	0,7	0,4	55	2.370	7		RMT-1,5	VFTM-Tri 0,37	VFKB-45
HCBT/4-355/H	1370	182	0,8	0,5	59	3.480	8		RMT-1,5	VFTM-Tri 0,37	VFKB-45
HCBT/4-400/H	1320	288	1,1	0,6	62	4.880	9		RMT-1,5	VFTM-Tri 0,37	VFKB-45
HCBT/4-450/H	1350	511	1,6	0,9	65	6.310	13		RMT-1,5	VFTM-Tri 0,37	VFKB-45
HCBT/4-500/H	1390	809	2,7	1,6	68	9.030	16		RMT-2,5	VFTM-Tri 0,55	VFKB-45
HCBT/4-560/H	1390	1287	4,0	2,3	70	12.760	22		RMT-2,5	VFTM-Tri 0,75	VFKB-45
HCBT/4-630/H	1385	1736	5,4	3,1	73	16.840	25		-	VFTM-Tri 1,1	VFKB-45
HCBT/4-710/H	1350	2554	7,6	4,4	74	22.330	27		-	VFTM-Tri 1,5	VFKB-45
HCBT/4-800/L-X (1,5 kW)	1410	2632	7,3	4,2	78	23.290	37		-	VFTM-Tri 1,5	VFKB-45
HCBT/4-800/H-X (3 kW)	1440	4595	12,8	7,4	84	33.100	52		-	VFTM-Tri 4	VFKB-48
HCBT/4-900/L-X (3 kW)	1450	3909	12,0	6,9	82	34.270	96		-	VFTM-Tri 3	VFKB-48
HCBT/4-900/H-X (5,5 kW)	1455	7893		13,4	87	46.270	112		-	VFTM-Tri 5,5	-
HCBT/4-1000/L-X (3 kW)	1415	5048	14,2	8,2	86	39.910	67		-	VFTM-Tri 3	VFKB-48
HCBT/4-1000/H-X (5,5 kW)	1440	9227		15,1	93	49.200	95		-	VFTM-Tri 5,5	-
THREE PHASE 6 POLE											
HCBT/6-355/H	900	91	0,3	0,2	48	2.270	8		RMT-1,5	VFTM-Tri 0,37	VFKB-45
HCBT/6-400/H	840	120	0,5	0,3	51	3.050	9		RMT-1,5	VFTM-Tri 0,37	VFKB-45
HCBT/6-450/H	945	184	0,9	0,5	54	4.490	13		RMT-1,5	VFTM-Tri 0,37	VFKB-45
HCBT/6-500/H	910	261	0,5	0,3	57	6.060	16		RMT-1,5	VFTM-Tri 0,37	VFKB-45
HCBT/6-560/H	895	421	1,4	0,8	59	8.650	22		RMT-1,5	VFTM-Tri 0,37	VFKB-45
HCBT/6-630/H	910	596	2,3	1,3	62	10.950	25		RMT-1,5	VFTM-Tri 0,37	VFKB-45
HCBT/6-710/H	950	953	4,7	2,7	65	15.330	27		RMT-5	VFTM-Tri 1,5	VFKB-45
HCBT/6-800/L-X (0,55 kW)	940	1025	3,3	1,9	73	17.600	31		-	VFTM-Tri 0,75	VFKB-45
HCBT/6-800/H-X (0,75 kW)	935	1309	4,2	2,4	75	20.590	36		-	VFTM-Tri 1,1	VFKB-45
HCBT/6-900/L-X (1,1 kW)	960	1341	4,8	2,8	74	23.700	88		-	VFTM-Tri 1,5	VFKB-45
HCBT/6-900/H-X (1,5 kW)	955	2289	7,3	4,2	78	32.300	95		-	VFTM-Tri 1,5	VFKB-45
HCBT/6-1000/L-X (1,1 kW)	940	1855	5,9	3,4	79	28.810	54		-	VFTM-Tri 1,5	VFKB-45
HCBT/6-1000/H-X (1,5 kW)	940	2795	8,5	4,9	84	37.710	62		-	VFTM-Tri 2,2	VFKB-45

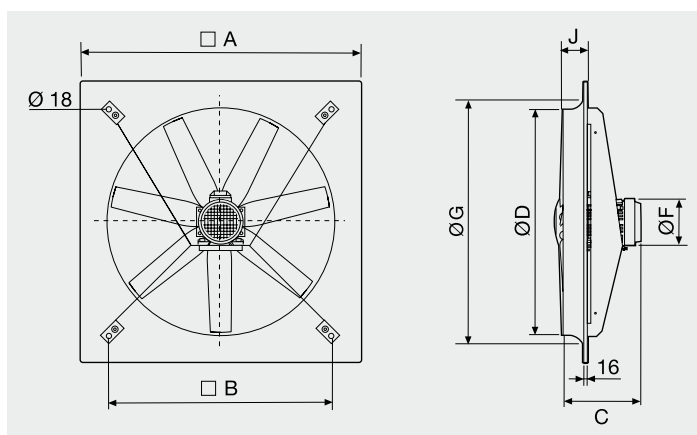
\* Sound pressure level measured in free field conditions at a distance equivalent to three times the diameter of the impeller with a minimum of 1,5 meters.

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

**DIMENSIONS (mm)**

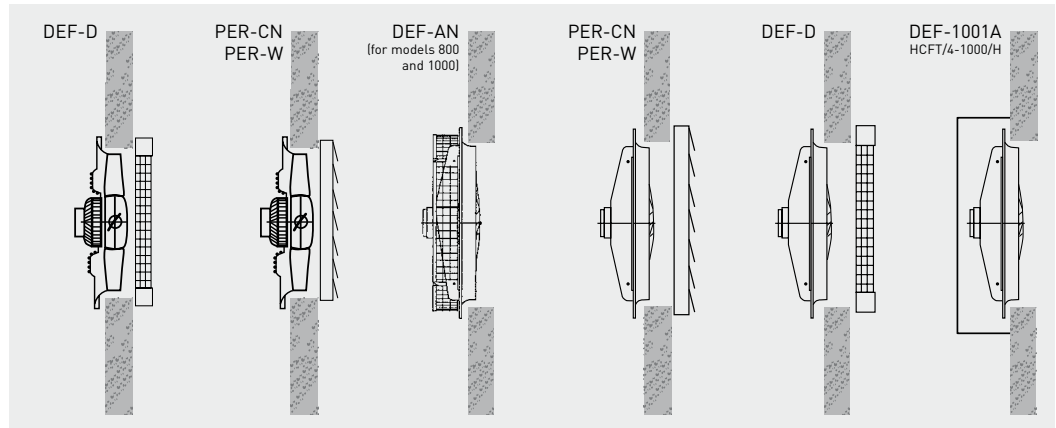


Model	A	B	C	Ø D	Ø E	F			Ø G	J			K	L	M	
						Number of poles				Number of poles					Three phase	Single phase
						/2	/4	/6		/2	/4	/6				
250	315	260	220	254	10		122		294		59		53	12	40	65
315	400	330	280	315	10	129	122	122	329	45	32	32	68	12	40	65
355	450	380	315	355	10	129	129	129	371	45	45	45	75	12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



Model	A	B	Ø D	J	Ø G	C				Ø F			
						/4		/6		/4		/6	
						L	H	L	H	L	H	L	H
800	1000	800	800	92	926	345	380	310	345	181	203	162	181
900	1120	900	900	120	1060	392	439	350	392	203	280	181	203
1000	1250	1000	1000	110	1154	380	485	345	380	203	280	181	203

**MOUNTING 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	-
/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.



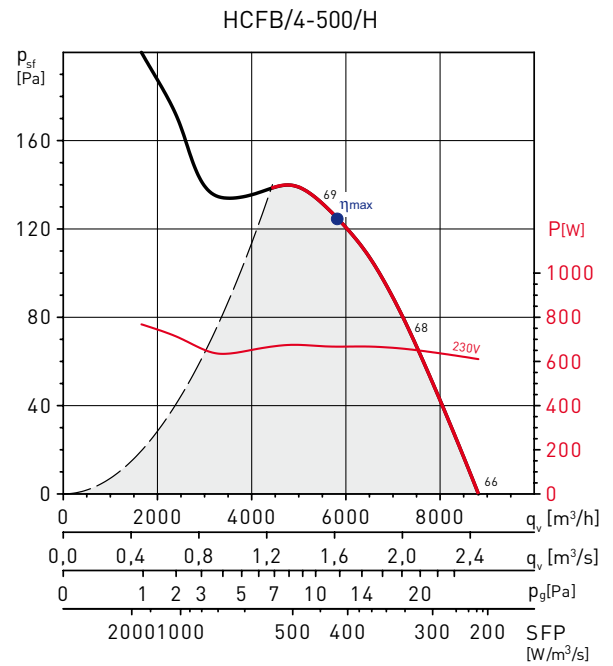
**PERFORMANCE CURVES HCFB/HCFT**

- $q_v$ : Airflow in  $m^3/h$  and  $m^3/s$ .
- $p_{sf}$ : Static pressure in Pa.
- $p_g$ : Protection guard pressure drop in Pa.
- SFP: Specific fan power in  $W/m^3/s$ .
- P: Input power in W.
- Measurement category: A.
- Efficiency category: static.
- Fan efficiency without speed control.
- Fan tested without protection guard.
- Airflow data in accordance with ISO 5801.
- Sound pressure level dB(A), measured in a free field distance equal to 3 times the diameter, with a minimum of 1,5 m.

Select the airflow performance in the area of the graph right of the dashed line.

- MC** Measurement category
- EC** Efficiency category
- VSD** Speed control: supplied with the fan
- SR** Specific ratio
- $\eta$ [%]** Efficiency
- N** Efficiency grade
- [kW]** Absorbed power
- [ $m^3/h$ ]** Airflow
- [Pa]** Static pressure
- [RPM]** Speed

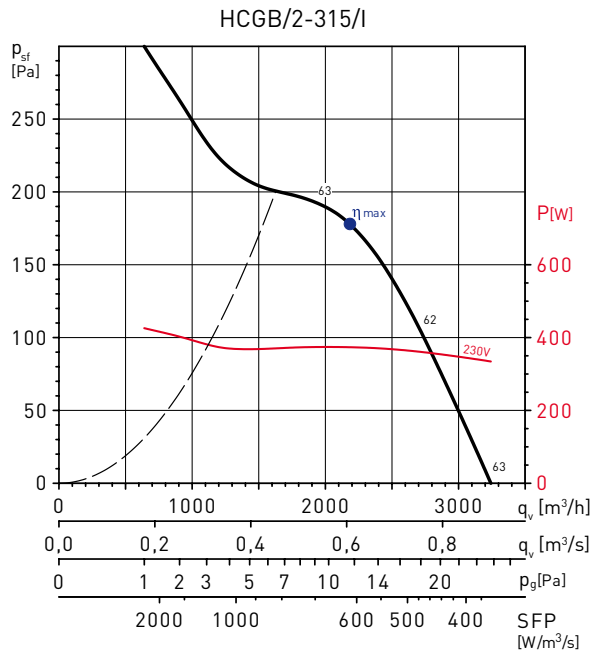
**EXAMPLE CURVE**



MC*	EC*	VSD*	SR*	$\eta$ [%]*	N*	[kW]	[ $m^3/h$ ]	[Pa]	[RPM]
A	Static	No	1	30,3	37,7	0,667	5828	125	1326

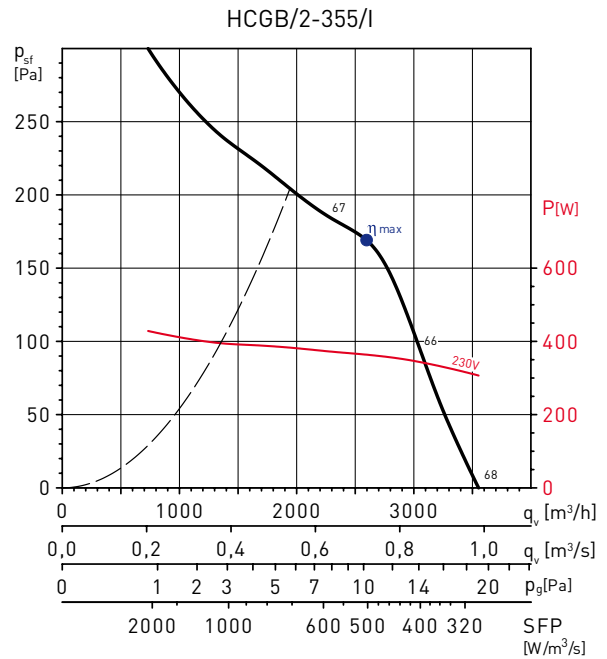


**PERFORMANCE CURVES - 2 POLE MOTORS**



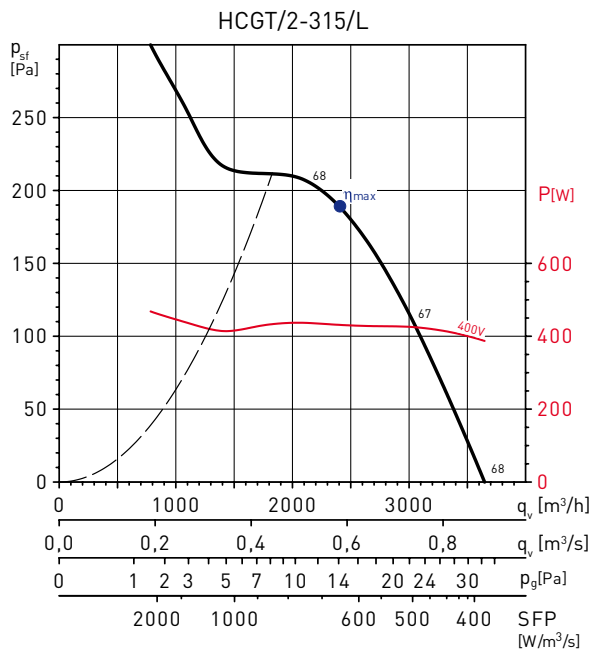
MC*	EC*	VSD*	SR*	η[%]*	N*	[kW]	[m³/h]	[Pa]	[RPM]
A	Static	No	1	28,8	37,8	0,374	2182	178	2603

\* See example curve.



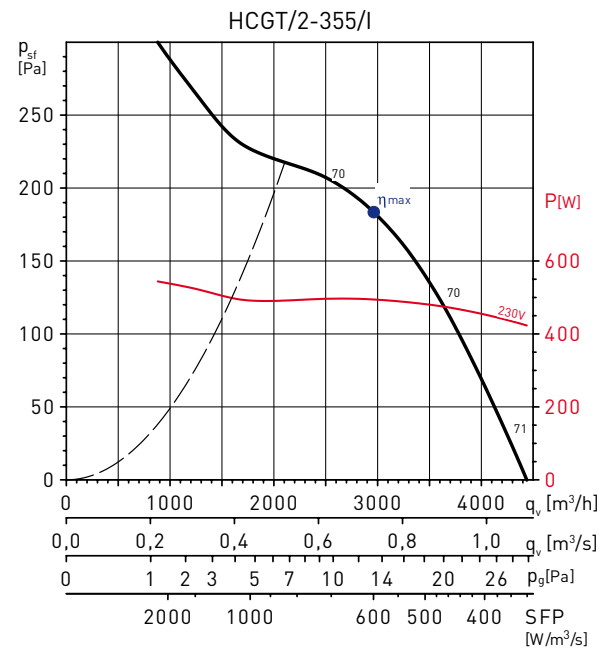
MC*	EC*	VSD*	SR*	η[%]*	N*	[kW]	[m³/h]	[Pa]	[RPM]
A	Static	No	1	33,8	42,9	0,364	2597	169	2590

\* See example curve.



MC*	EC*	VSD*	SR*	η[%]*	N*	[kW]	[m³/h]	[Pa]	[RPM]
A	Static	No	1	29,2	37,8	0,431	2404	189	2582

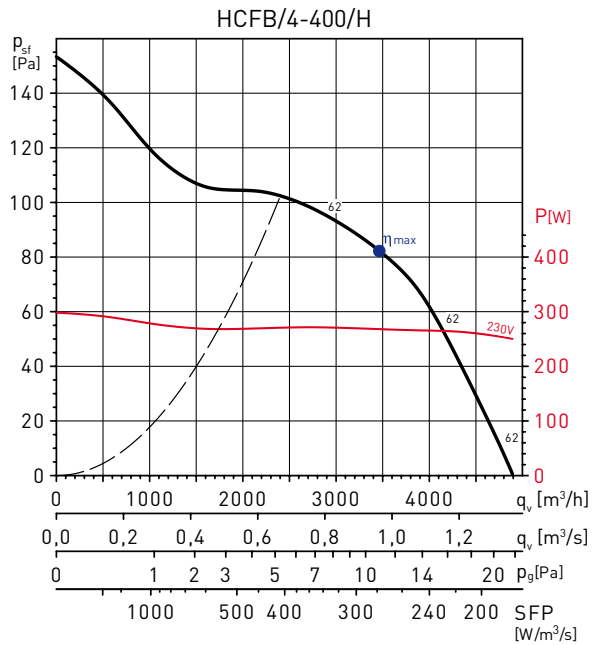
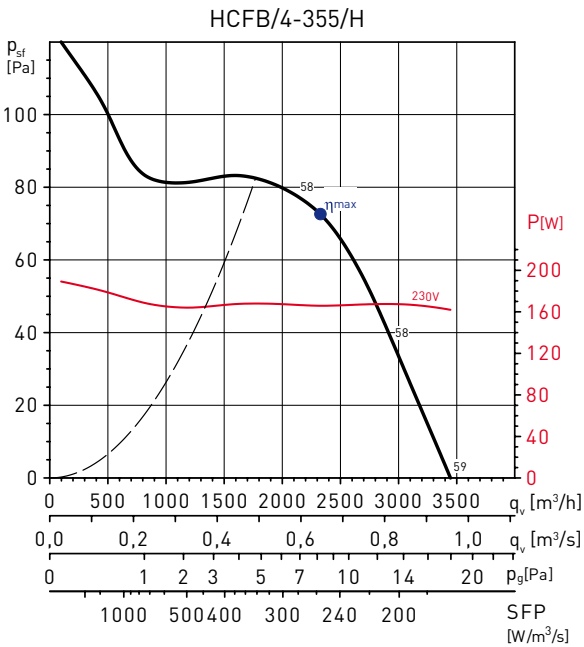
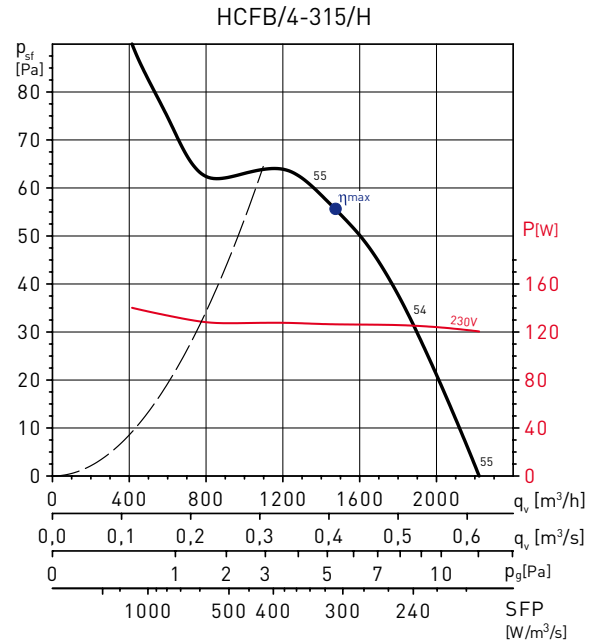
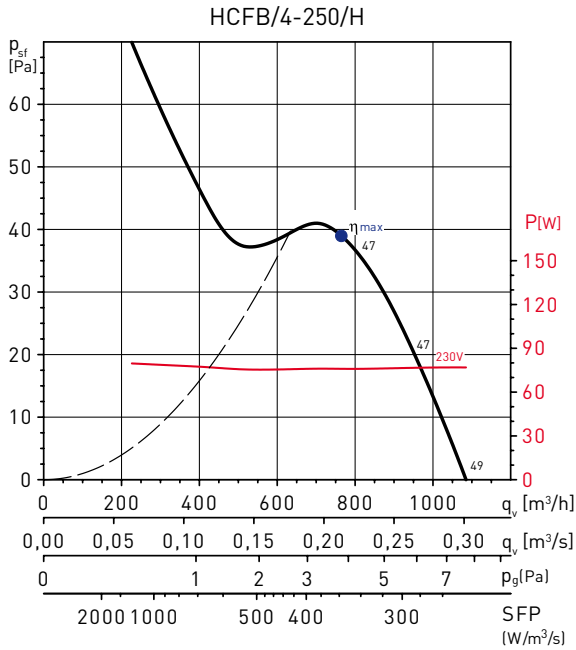
\* See example curve.



MC*	EC*	VSD*	SR*	η[%]*	N*	[kW]	[m³/h]	[Pa]	[RPM]
A	Static	No	1	30,5	38,8	0,495	2960	184	2454

\* See example curve.

**PERFORMANCE CURVES - 4 POLE MOTORS**



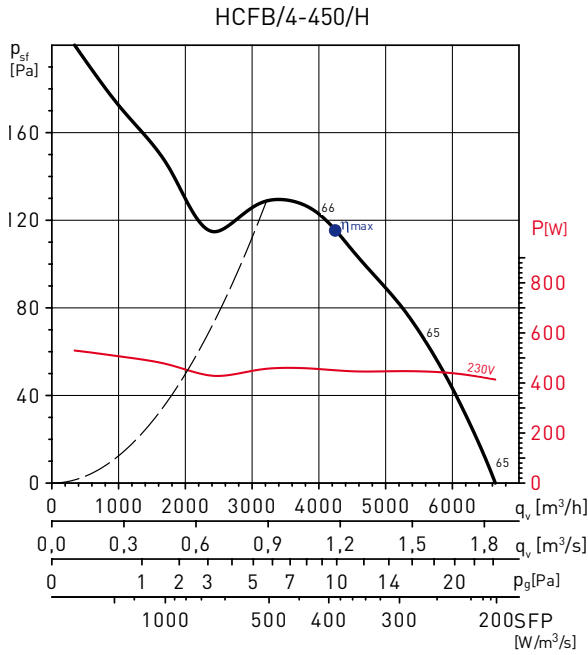
MC*	EC*	VSD*	SR*	η[%]*	N*	[kW]	[m³/h]	[Pa]	[RPM]
A	Static	No	1	28,3	39,6	0,166	2324	73	1406

\* See example curve.

MC*	EC*	VSD*	SR*	η[%]*	N*	[kW]	[m³/h]	[Pa]	[RPM]
A	Static	No	1	29,9	39,8	0,268	3477	83	1411

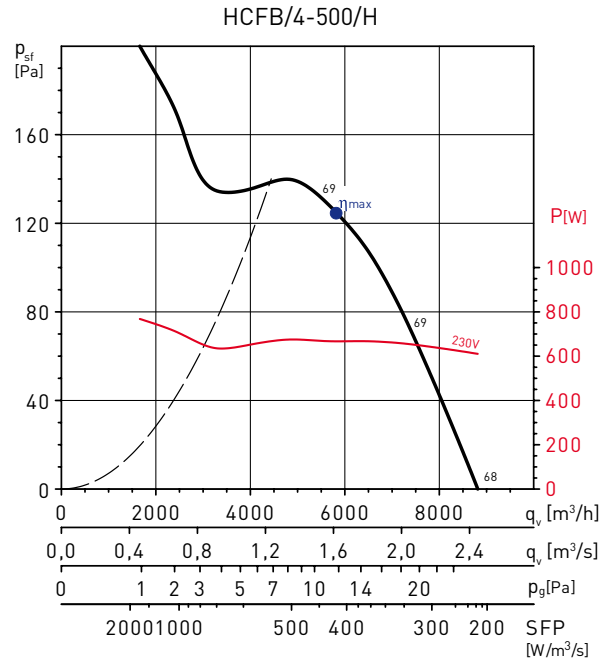
\* See example curve.

**PERFORMANCE CURVES - 4 POLE MOTORS**



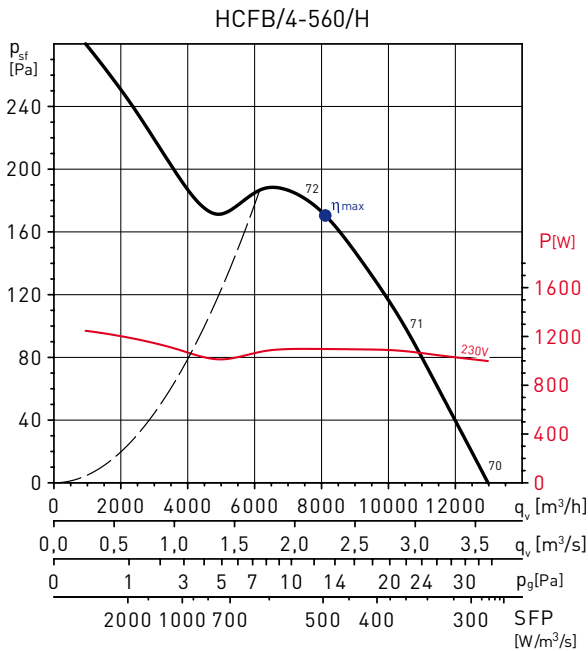
MC*	EC*	VSD*	SR*	η[%]*	N*	[kW]	[m³/h]	[Pa]	[RPM]
A	Static	No	1	30,0	38,5	0,449	4234	115	1352

\* See example curve.



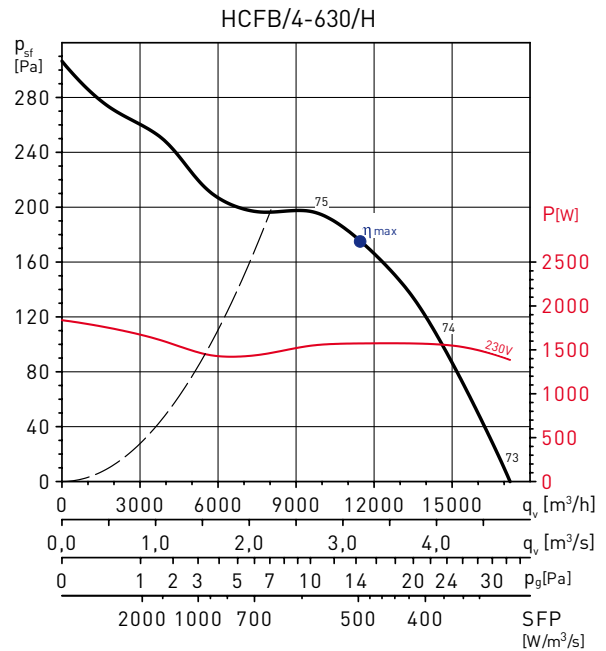
MC*	EC*	VSD*	SR*	η[%]*	N*	[kW]	[m³/h]	[Pa]	[RPM]
A	Static	No	1	30,3	37,7	0,667	5828	125	1376

\* See example curve.



MC*	EC*	VSD*	SR*	η[%]*	N*	[kW]	[m³/h]	[Pa]	[RPM]
A	Static	No	1	34,9	41,0	1,093	8081	170	1386

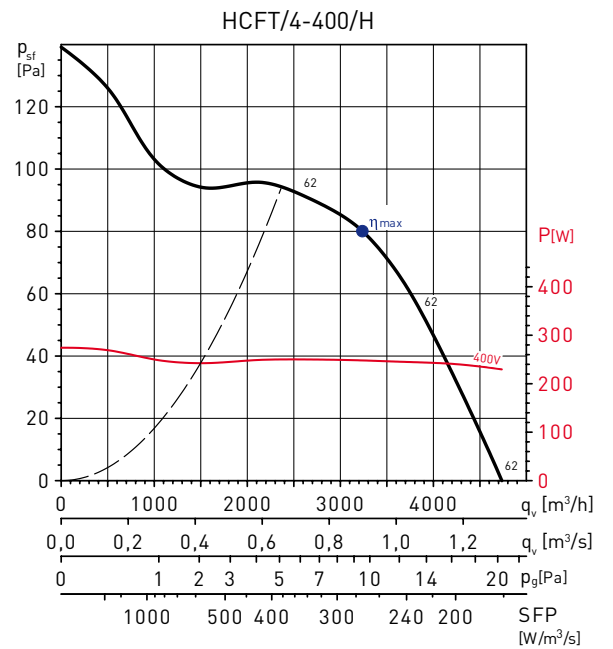
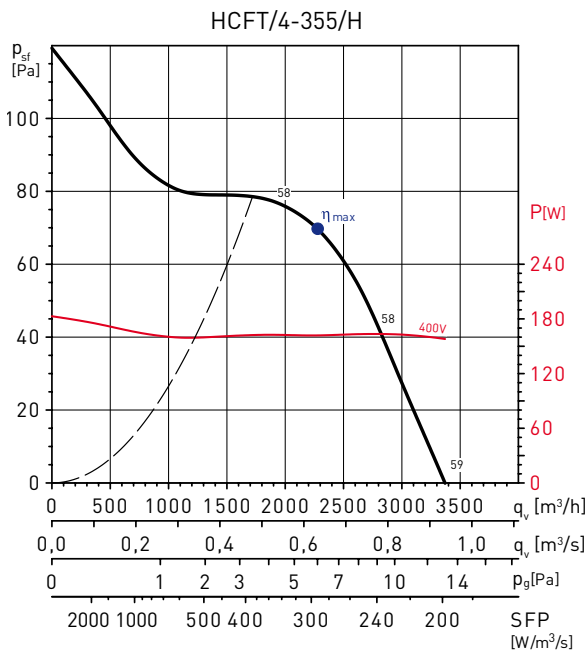
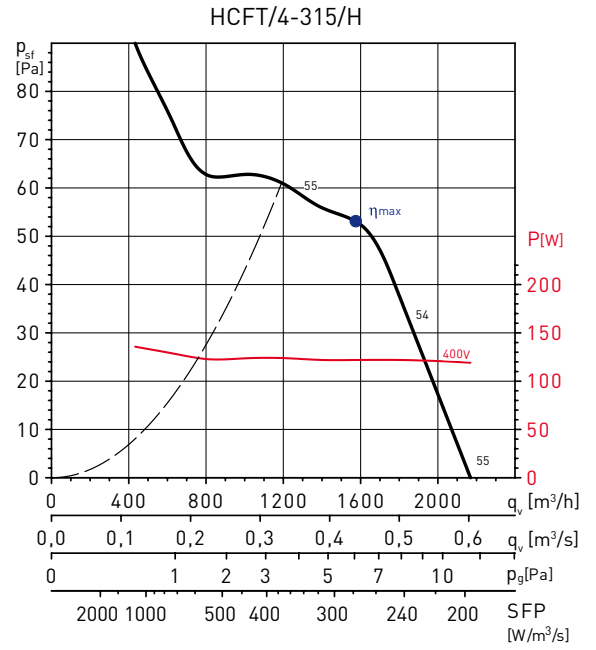
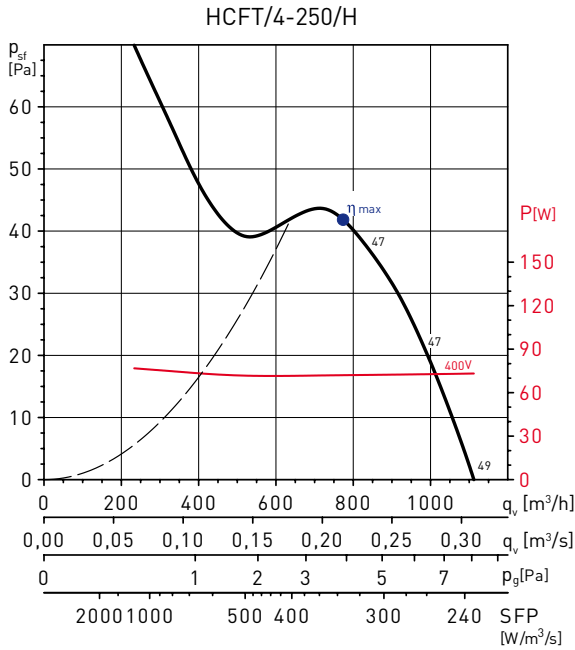
\* See example curve.



MC*	EC*	VSD*	SR*	η[%]*	N*	[kW]	[m³/h]	[Pa]	[RPM]
A	Static	No	1	35,5	40,6	1,573	11483	175	1345

\* See example curve.

**PERFORMANCE CURVES - 4 POLE MOTORS**



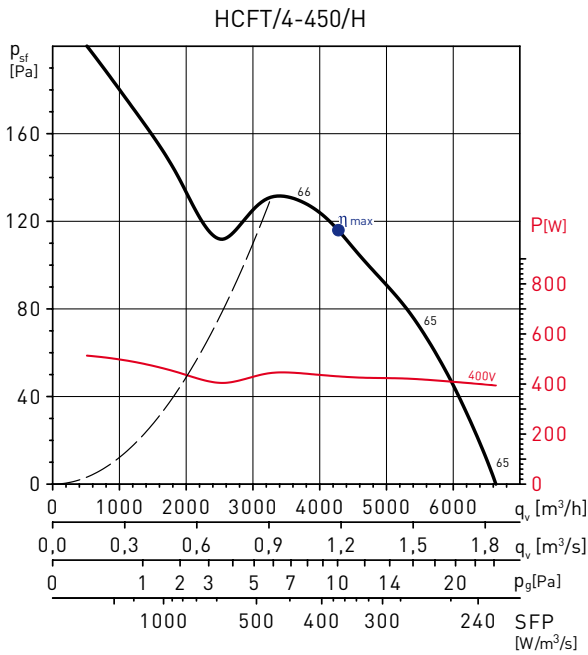
MC*	EC*	VSD*	SR*	η[%]*	N*	[kW]	[m³/h]	[Pa]	[RPM]
A	Static	No	1	27,2	38,5	0,162	2274	70	1372

\* See example curve.

MC*	EC*	VSD*	SR*	η[%]*	N*	[kW]	[m³/h]	[Pa]	[RPM]
A	Static	No	1	29,0	39,2	0,248	3227	80	1354

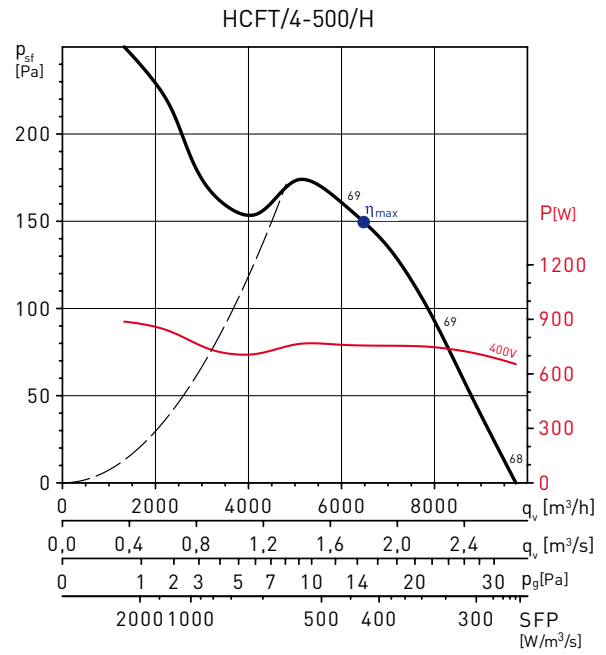
\* See example curve.

**PERFORMANCE CURVES - 4 POLE MOTORS**



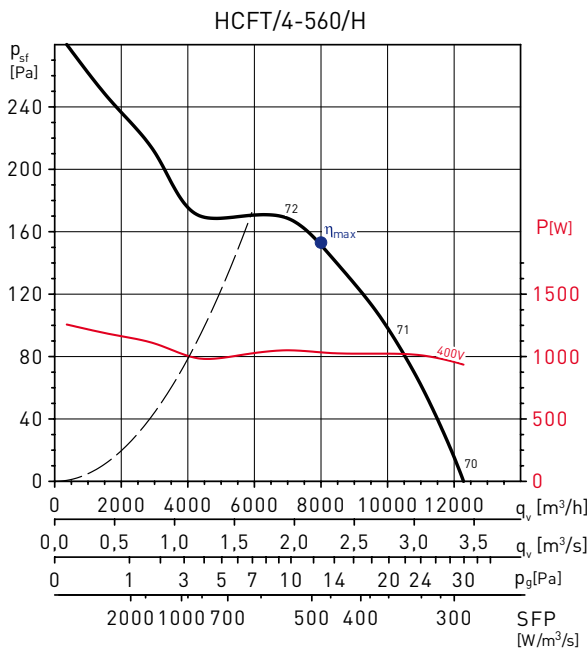
MC*	EC*	VSD*	SR*	η[%]*	N*	[kW]	[m³/h]	[Pa]	[RPM]
A	Static	No	1	31,8	40,5	0,429	4261	115	1351

\* See example curve.



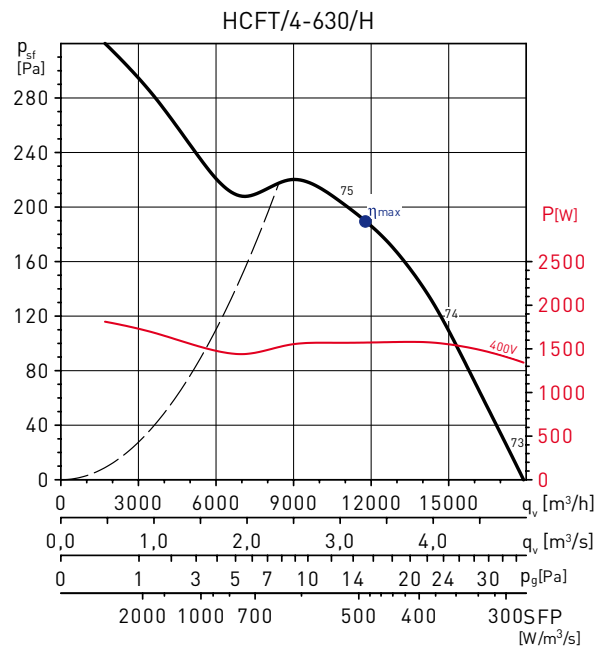
MC*	EC*	VSD*	SR*	η[%]*	N*	[kW]	[m³/h]	[Pa]	[RPM]
A	Static	No	1	35,7	42,8	0,756	6476	150	1449

\* See example curve.



MC*	EC*	VSD*	SR*	η[%]*	N*	[kW]	[m³/h]	[Pa]	[RPM]
A	Static	No	1	32,4	38,6	1,034	7955	152	1383

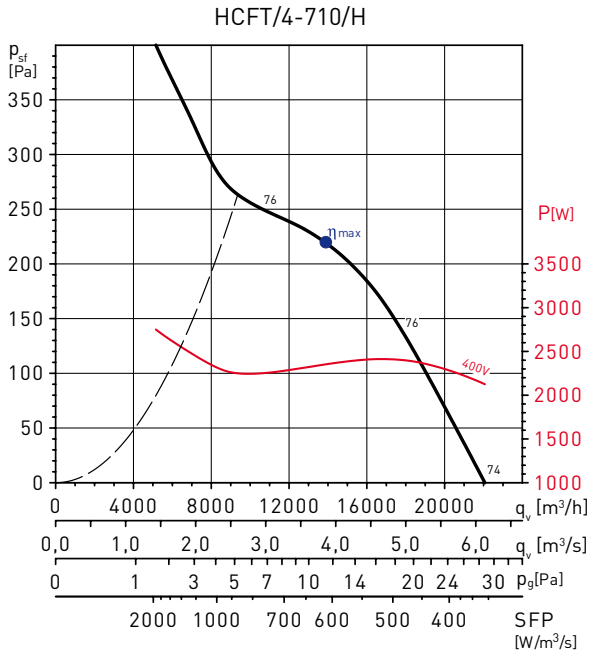
\* See example curve.



MC*	EC*	VSD*	SR*	η[%]*	N*	[kW]	[m³/h]	[Pa]	[RPM]
A	Static	No	1	39,5	44,6	1,569	11760	189	1404

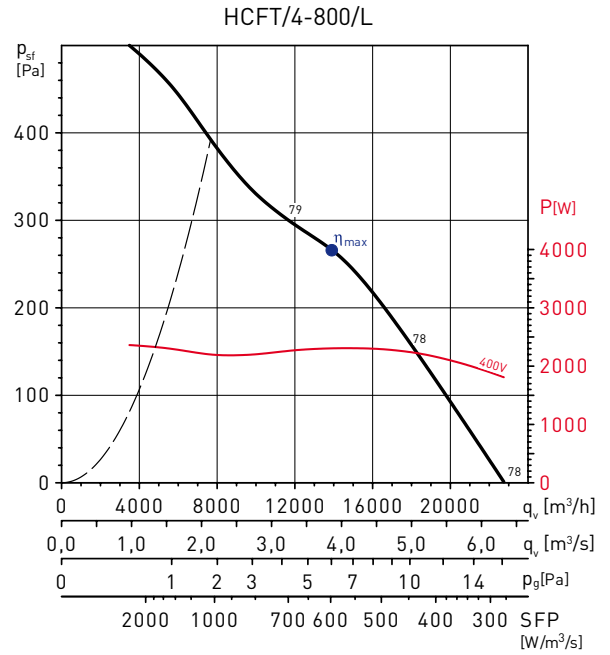
\* See example curve.

**PERFORMANCE CURVES - 4 POLE MOTORS**



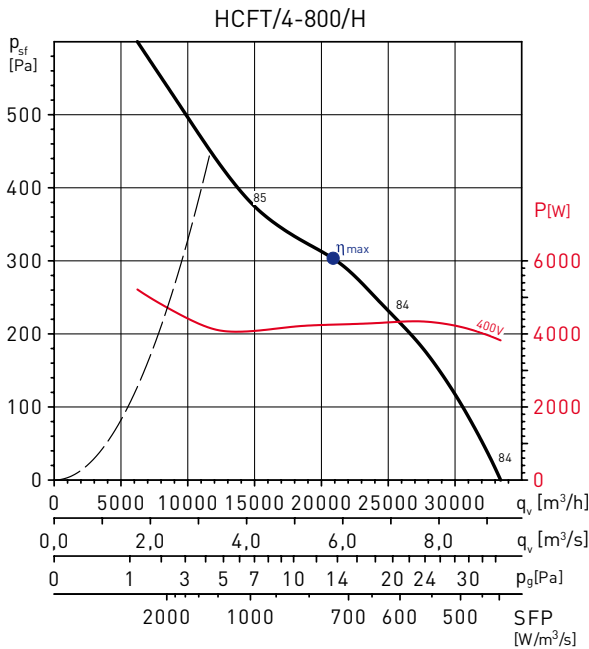
MC*	EC*	VSD*	SR*	η[%]*	N*	[kW]	[m³/h]	[Pa]	[RPM]
A	Static	No	1	36,3	40,3	2,352	13929	221	1354

\* See example curve.



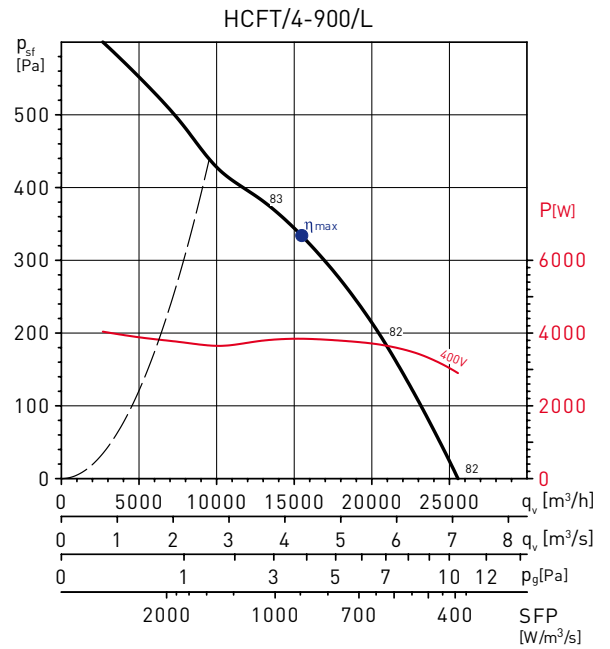
MC*	EC*	VSD*	SR*	η[%]*	N*	[kW]	[m³/h]	[Pa]	[RPM]
A	Static	No	1	44,7	48,7	2,305	13900	266	1392

\* See example curve.



MC*	EC*	VSD*	SR*	η[%]*	N*	[kW]	[m³/h]	[Pa]	[RPM]
A	Static	No	1	41,4	43,8	4,253	20873	304	1435

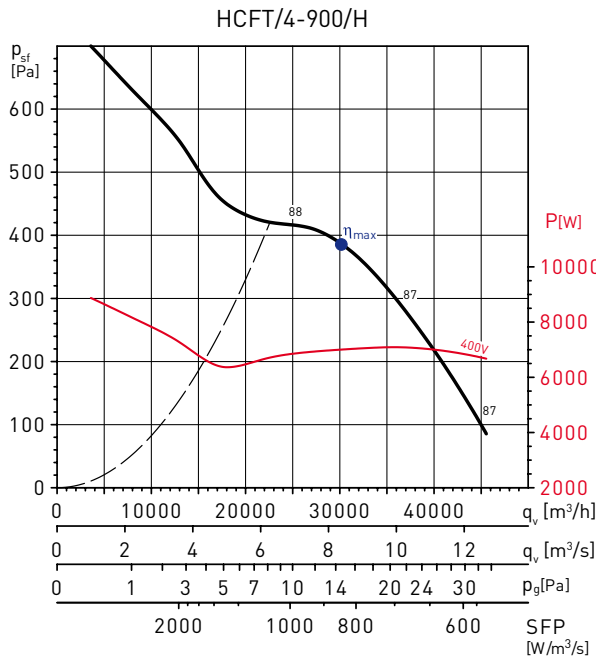
\* See example curve.



MC*	EC*	VSD*	SR*	η[%]*	N*	[kW]	[m³/h]	[Pa]	[RPM]
A	Static	No	1	37,4	40,0	3,844	15455	334	1442

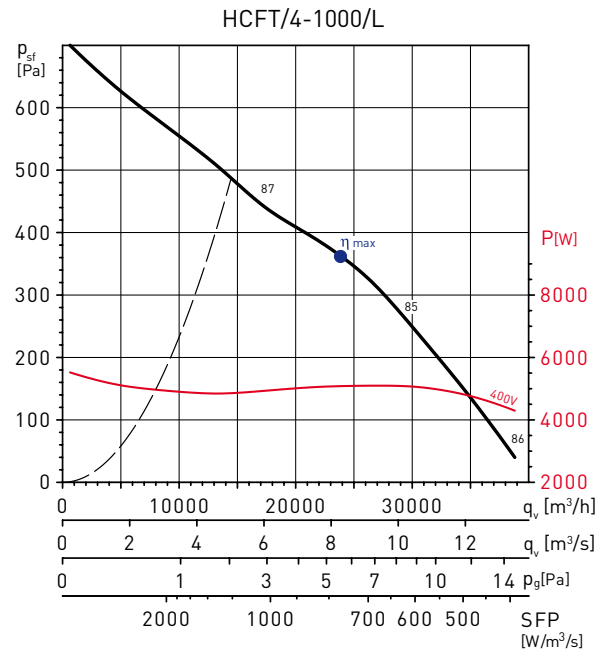
\* See example curve.

**PERFORMANCE CURVES - 4 POLE MOTORS**



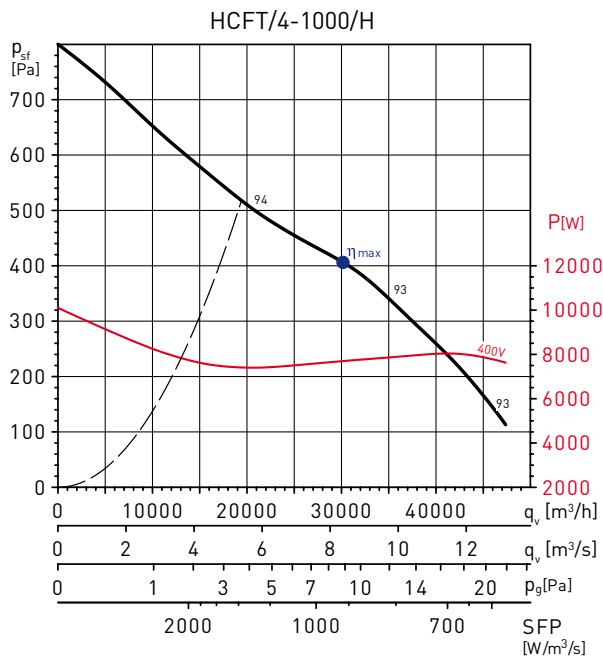
MC*	EC*	VSD*	SR*	η[%]*	N*	[kW]	[m³/h]	[Pa]	[RPM]
A	Static	No	1	46,3	47,3	7,001	30198	387	1455

\* See example curve.



MC*	EC*	VSD*	SR*	η[%]*	N*	[kW]	[m³/h]	[Pa]	[RPM]
A	Static	No	1	47,6	49,5	5,076	23915	364	1421

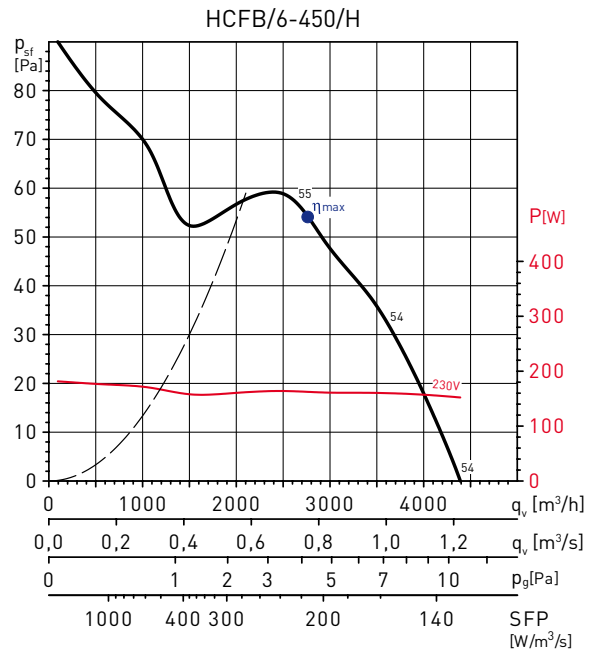
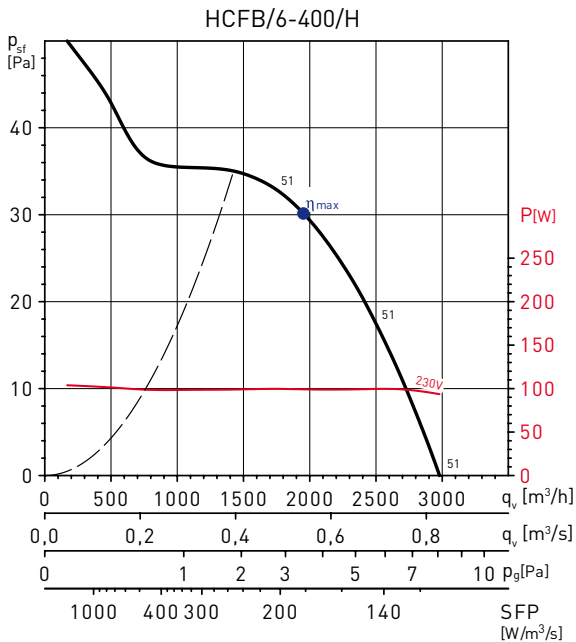
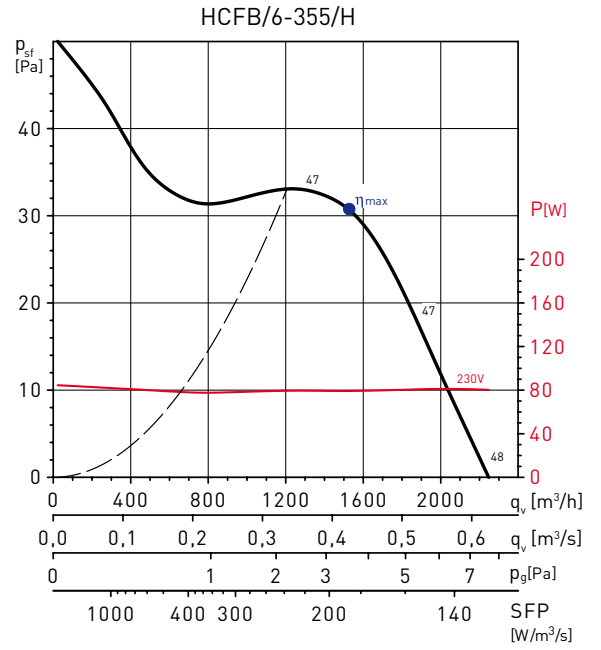
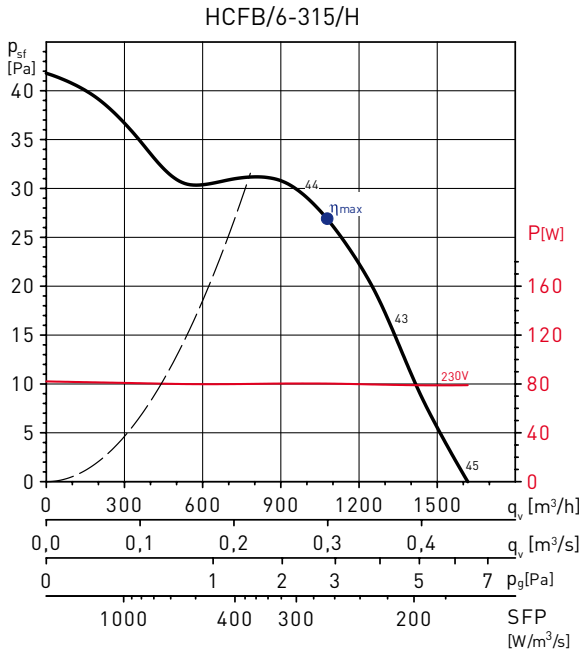
\* See example curve.



MC*	EC*	VSD*	SR*	η[%]*	N*	[kW]	[m³/h]	[Pa]	[RPM]
A	Static	No	1	44,4	45,1	7,706	30194	408	1438

\* See example curve.

**PERFORMANCE CURVES - 6 POLE MOTORS**

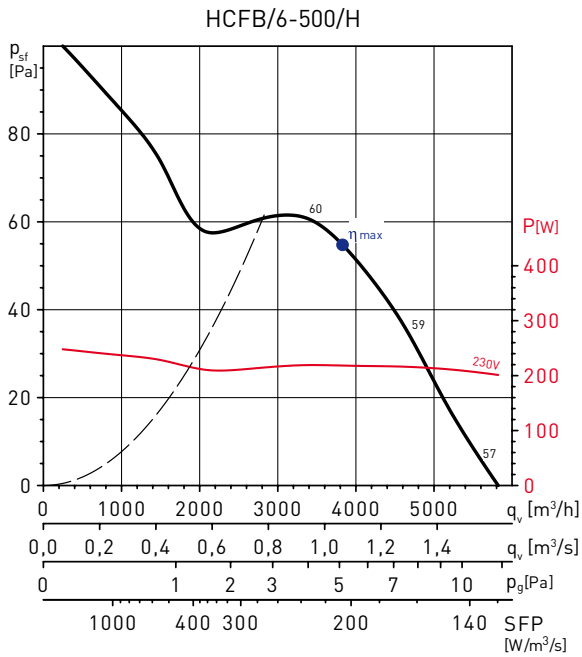


MC*	EC*	VSD*	SR*	η[%]*	N*	[kW]	[m³/h]	[Pa]	[RPM]
A	Static	No	1	25,1	36,4	0,162	2752	53	875

\* See example curve.

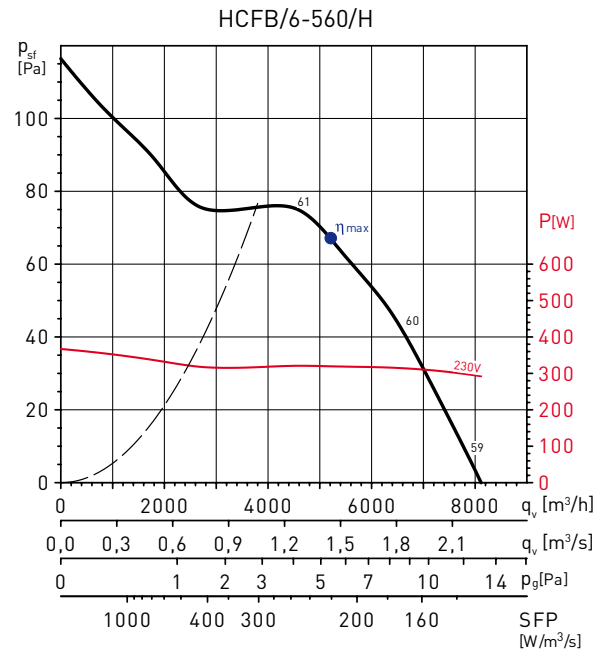


**PERFORMANCE CURVES - 6 POLE MOTORS**



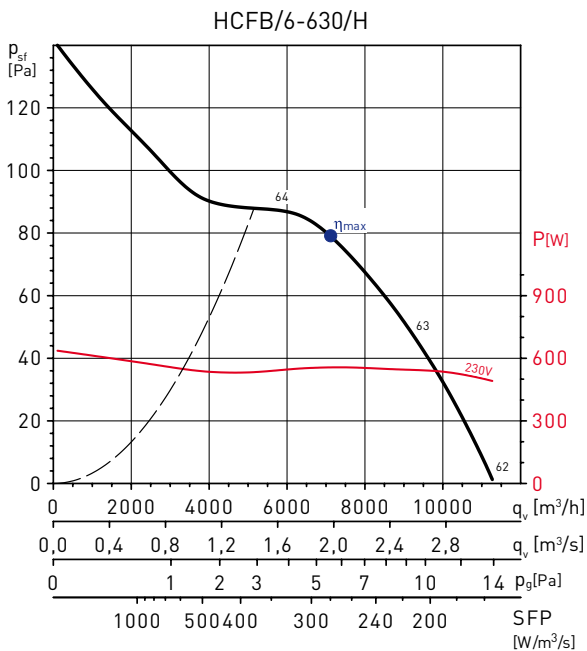
MC*	EC*	VSD*	SR*	η[%]*	N*	[kW]	[m³/h]	[Pa]	[RPM]
A	Static	No	1	26,5	37,0	0,218	3814	55	881

\* See example curve.



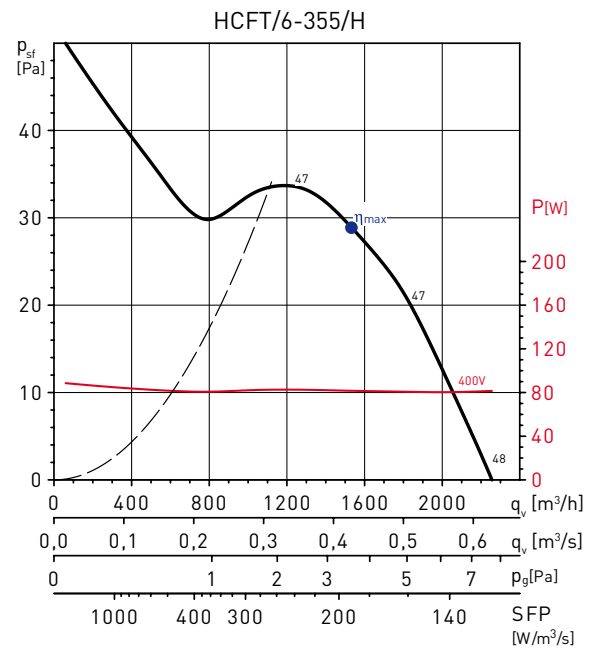
MC*	EC*	VSD*	SR*	η[%]*	N*	[kW]	[m³/h]	[Pa]	[RPM]
A	Static	No	1	30,1	39,6	0,319	5181	67	880

\* See example curve.



MC*	EC*	VSD*	SR*	η[%]*	N*	[kW]	[m³/h]	[Pa]	[RPM]
A	Static	No	1	28,2	36,1	0,558	7122	80	895

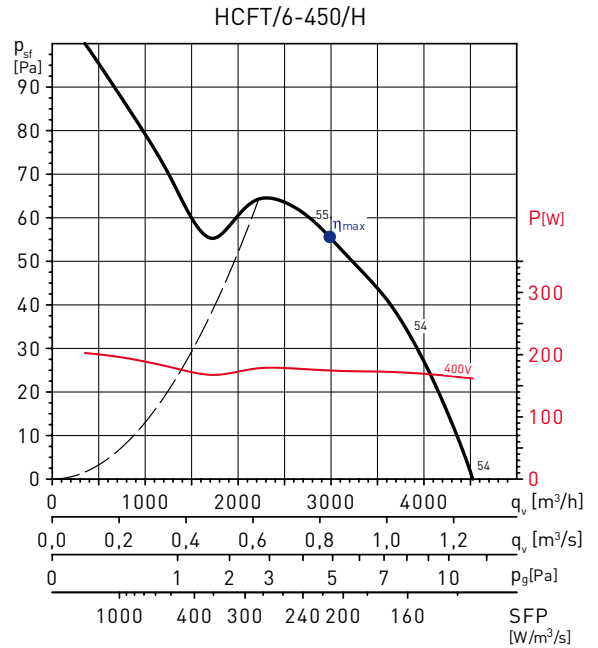
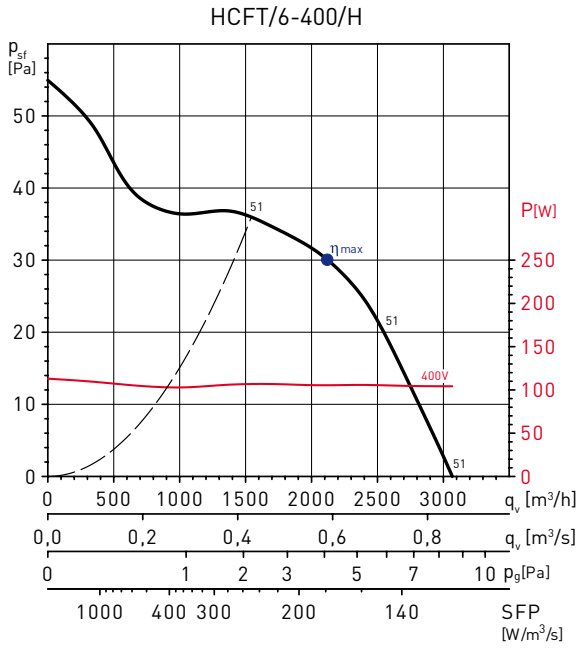
\* See example curve.



MC*	EC*	VSD*	SR*	η[%]*	N*	[kW]	[m³/h]	[Pa]	[RPM]
A	Static	No	1	28,2	36,1	0,558	7122	80	895

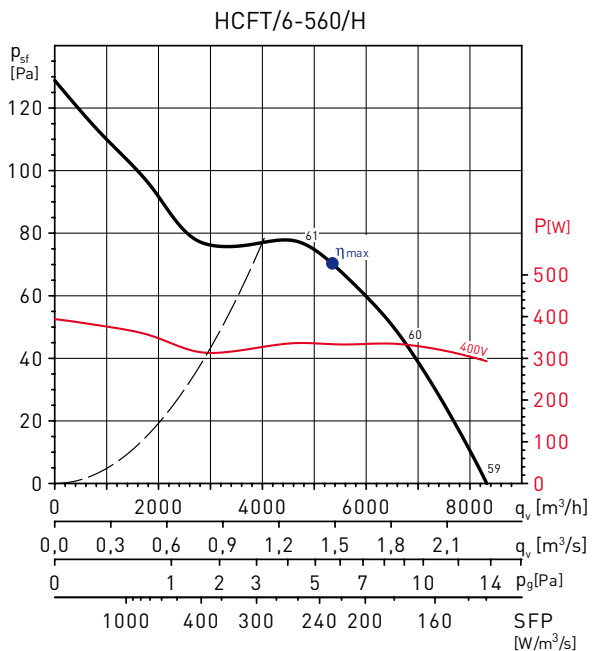
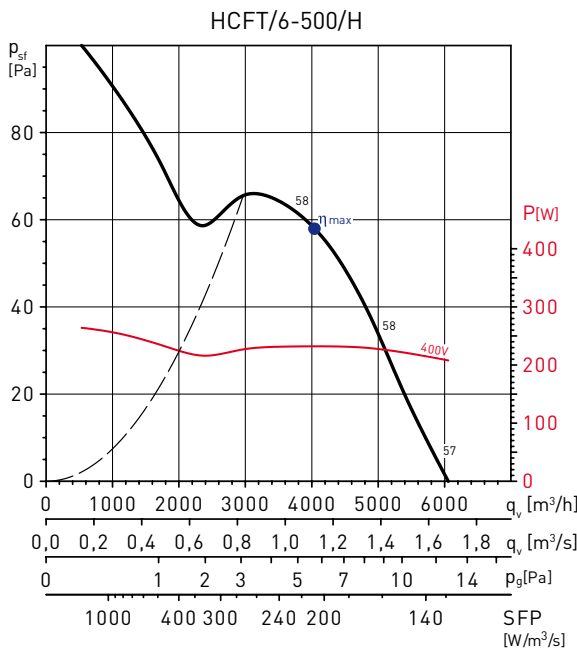
\* See example curve.

**PERFORMANCE CURVES - 6 POLE MOTORS**



MC*	EC*	VSD*	SR*	η[%]*	N*	[kW]	[m³/h]	[Pa]	[RPM]
A	Static	No	1	26,3	37,4	0,174	2973	55	938

\* See example curve.



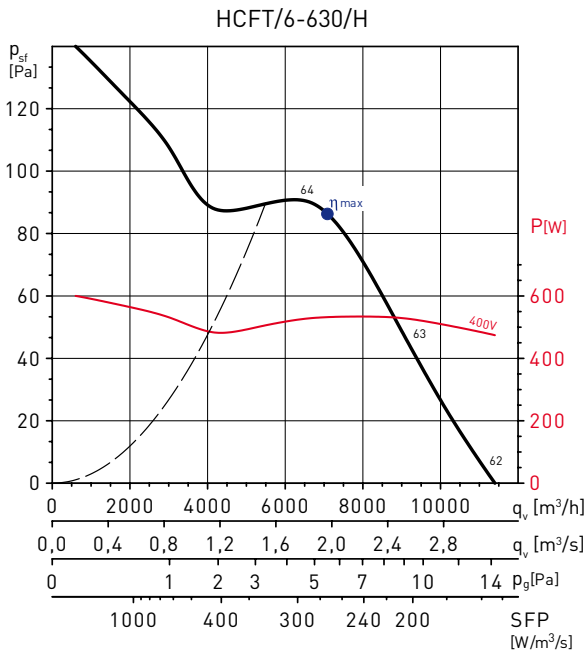
MC*	EC*	VSD*	SR*	η[%]*	N*	[kW]	[m³/h]	[Pa]	[RPM]
A	Static	No	1	28,0	38,2	0,232	4035	58	906

\* See example curve.

MC*	EC*	VSD*	SR*	η[%]*	N*	[kW]	[m³/h]	[Pa]	[RPM]
A	Static	No	1	31,2	40,5	0,333	5333	70	905

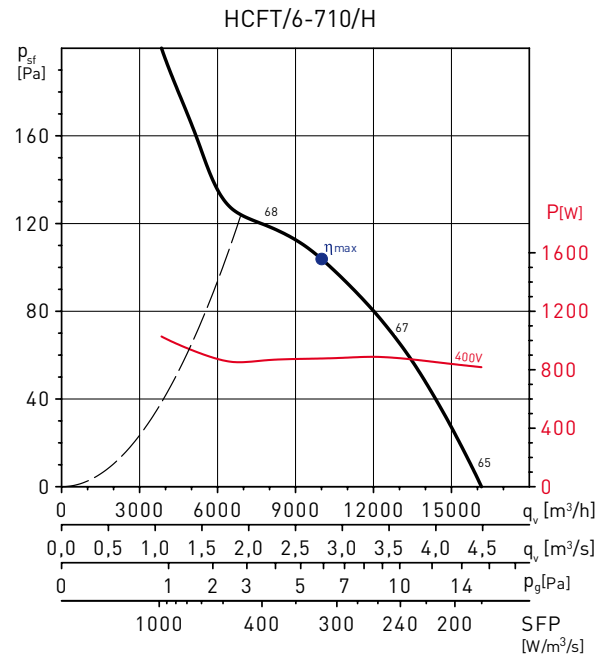
\* See example curve.

**PERFORMANCE CURVES - 6 POLE MOTORS**



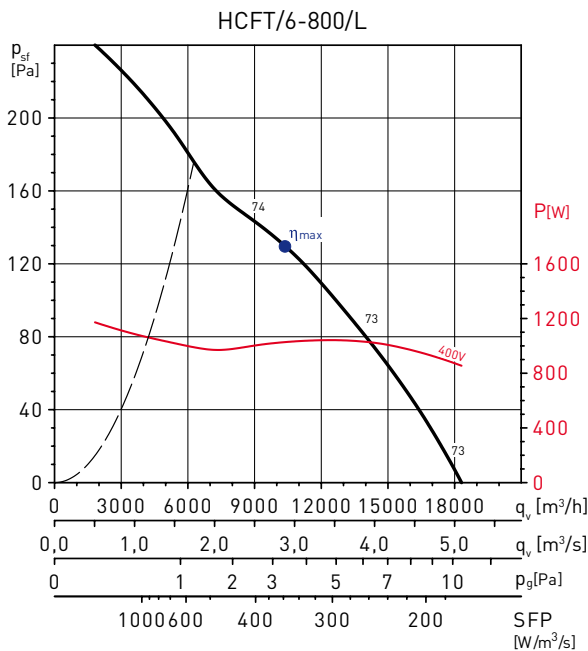
MC*	EC*	VSD*	SR*	$\eta$ [%]*	N*	[kW]	[ $m^3/h$ ]	[Pa]	[RPM]
A	Static	No	1	31,9	40,0	0,531	7080	86	904

\* See example curve.



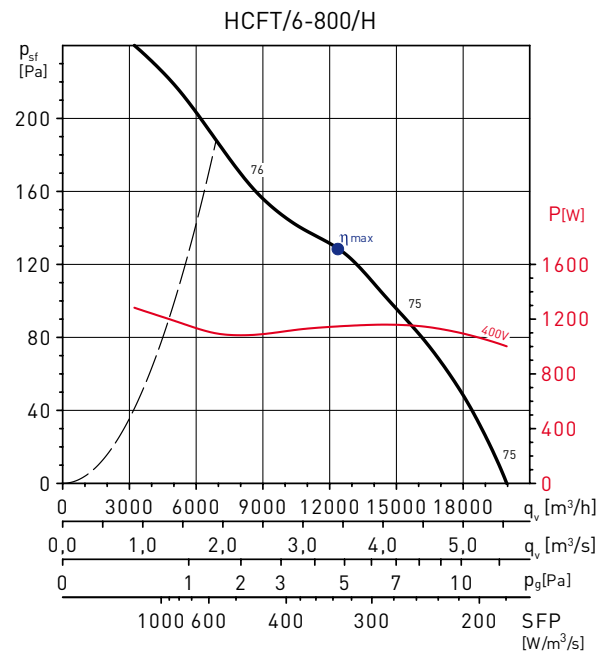
MC*	EC*	VSD*	SR*	$\eta$ [%]*	N*	[kW]	[ $m^3/h$ ]	[Pa]	[RPM]
A	Static	No	1	32,9	39,6	0,876	9992	104	949

\* See example curve.



MC*	EC*	VSD*	SR*	$\eta$ [%]*	N*	[kW]	[ $m^3/h$ ]	[Pa]	[RPM]
A	Static	No	1	36,4	42,7	1,028	10372	130	922

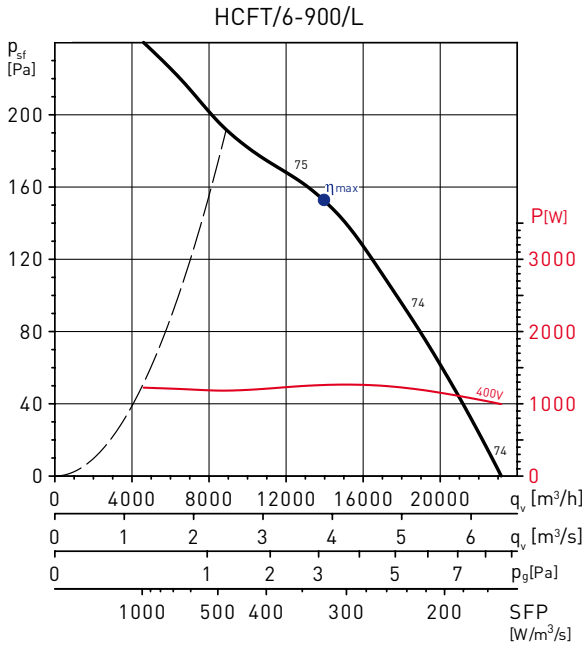
\* See example curve.



MC*	EC*	VSD*	SR*	$\eta$ [%]*	N*	[kW]	[ $m^3/h$ ]	[Pa]	[RPM]
A	Static	No	1	38,7	44,7	1,147	12360	129	931

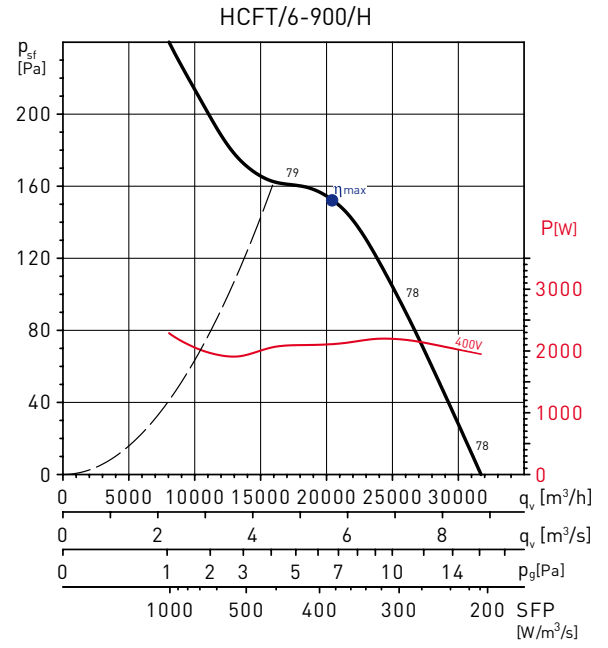
\* See example curve.

**PERFORMANCE CURVES - 6 POLE MOTORS**



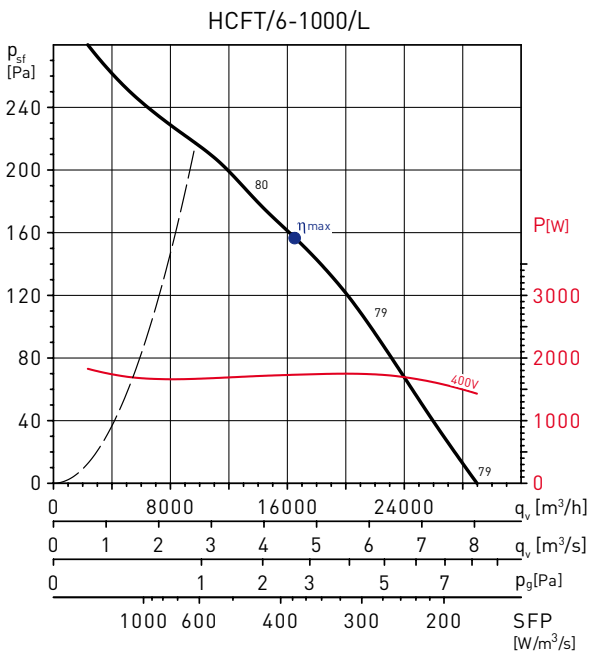
MC*	EC*	VSD*	SR*	η[%]*	N*	[kW]	[m³/h]	[Pa]	[RPM]
A	Static	No	1	47,1	52,8	1,260	13960	153	954

\* See example curve.



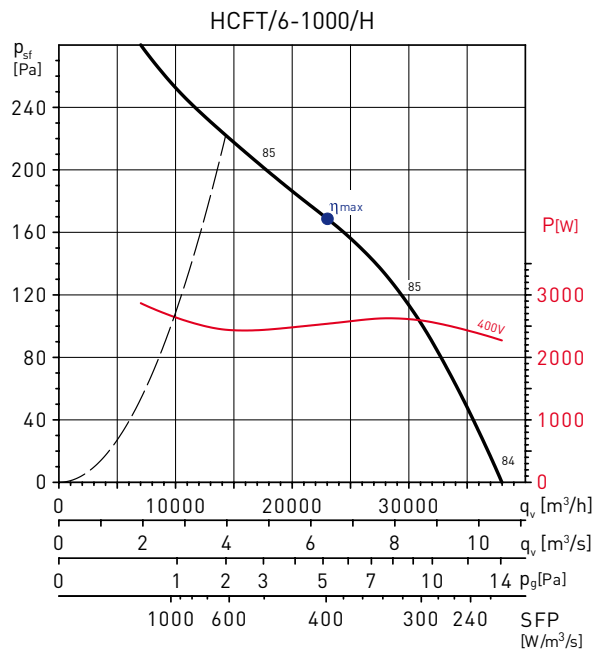
MC*	EC*	VSD*	SR*	η[%]*	N*	[kW]	[m³/h]	[Pa]	[RPM]
A	Static	No	1	41,2	45,5	2,107	20461	153	947

\* See example curve.



MC*	EC*	VSD*	SR*	η[%]*	N*	[kW]	[m³/h]	[Pa]	[RPM]
A	Static	No	1	41,6	46,4	1,733	16522	157	926

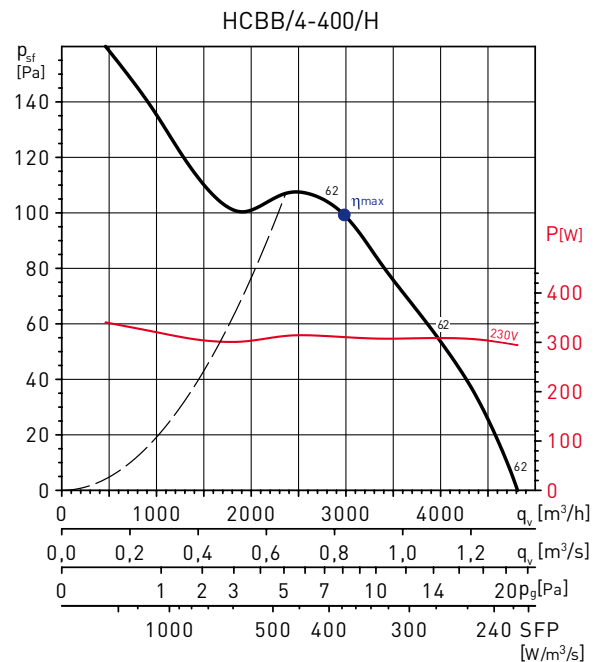
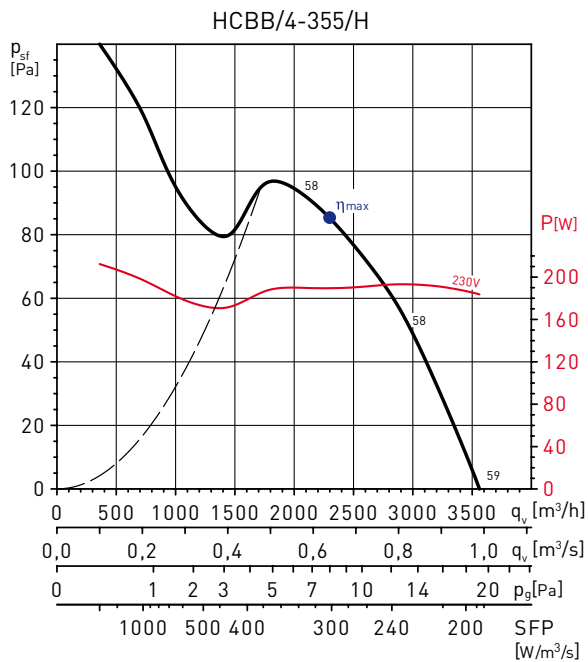
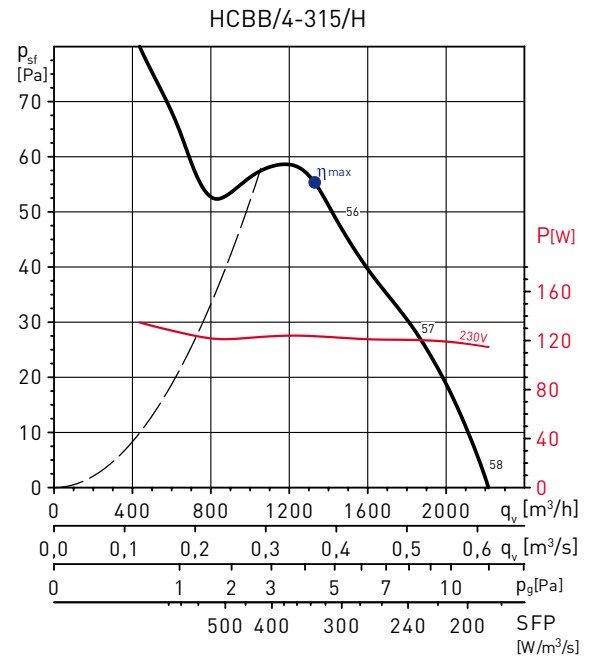
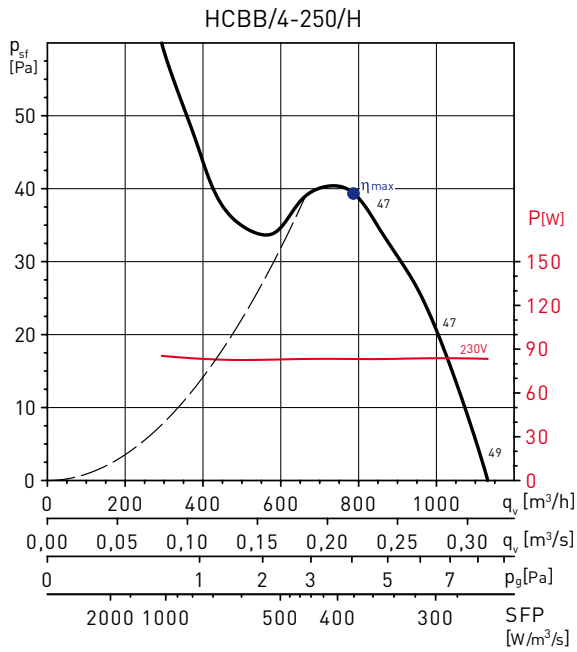
\* See example curve.



MC*	EC*	VSD*	SR*	η[%]*	N*	[kW]	[m³/h]	[Pa]	[RPM]
A	Static	No	1	42,6	46,4	2,536	22959	169	931

\* See example curve.

**PERFORMANCE CURVES - 4 POLE MOTORS**



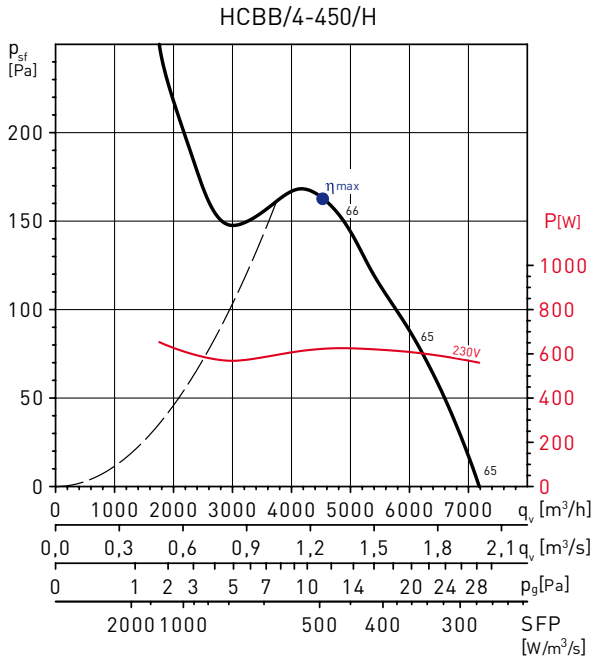
MC*	EC*	VSD*	SR*	η[%]*	N*	[kW]	[m³/h]	[Pa]	[RPM]
A	Static	No	1	28,5	39,4	0,189	2285	85	1377

\* See example curve.

MC*	EC*	VSD*	SR*	η[%]*	N*	[kW]	[m³/h]	[Pa]	[RPM]
A	Static	No	1	26,5	36,0	0,311	2983	99	1338

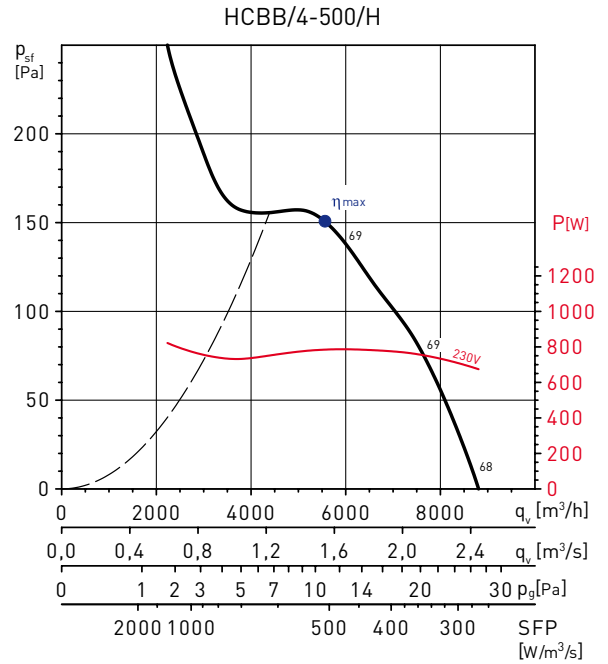
\* See example curve.

**PERFORMANCE CURVES - 4 POLE MOTORS**



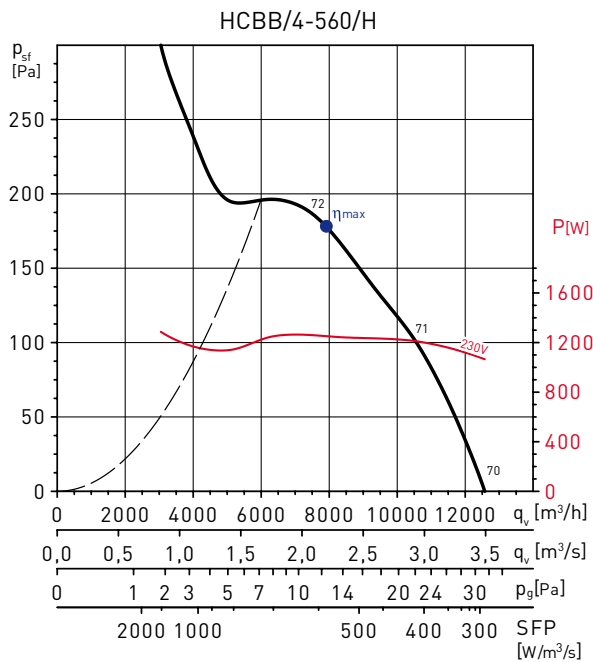
MC*	EC*	VSD*	SR*	η[%]*	N*	[kW]	[m³/h]	[Pa]	[RPM]
A	Static	No	1	33,2	40,8	0,623	4538	164	1390

\* See example curve.



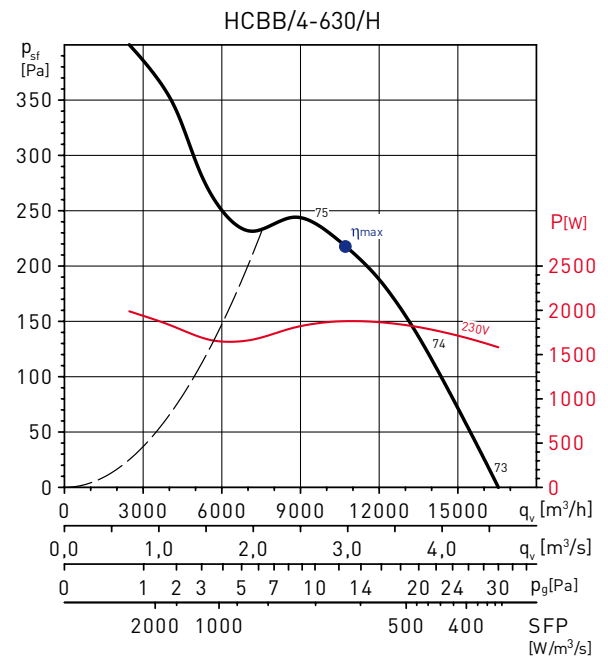
MC*	EC*	VSD*	SR*	η[%]*	N*	[kW]	[m³/h]	[Pa]	[RPM]
A	Static	No	1	29,7	36,7	0,785	5574	151	1319

\* See example curve.



MC*	EC*	VSD*	SR*	η[%]*	N*	[kW]	[m³/h]	[Pa]	[RPM]
A	Static	No	1	31,3	37,0	1,250	7918	178	1321

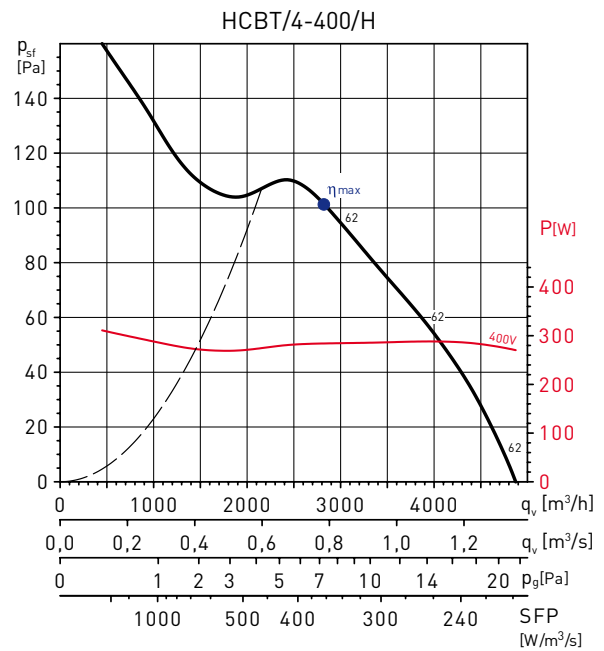
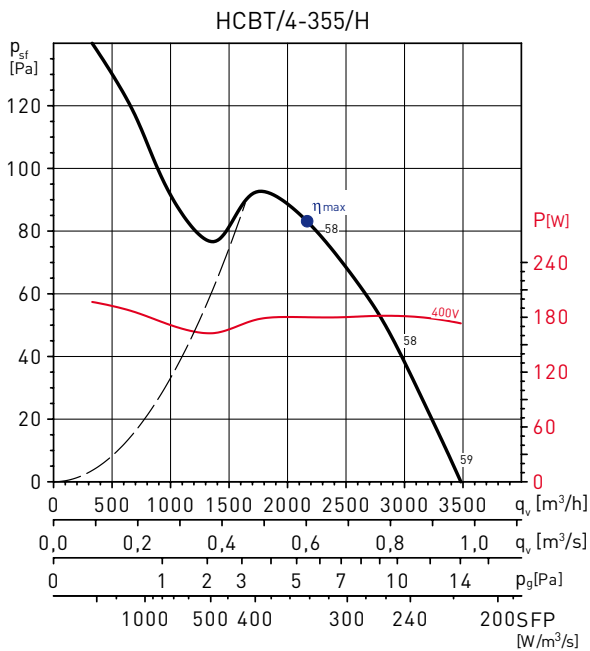
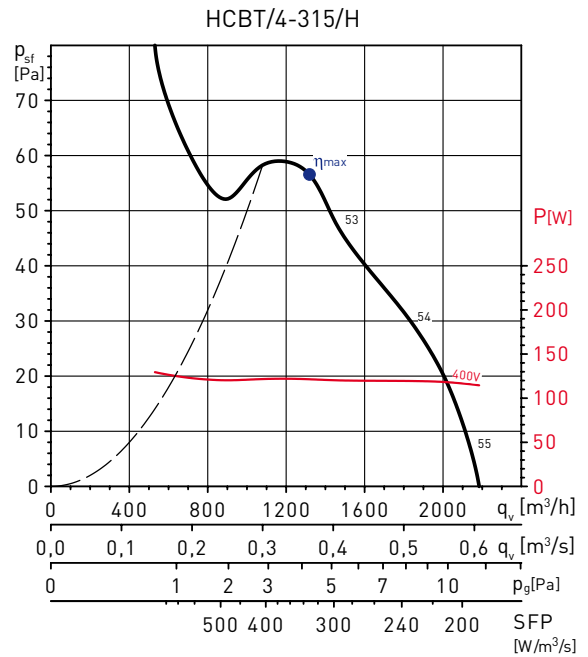
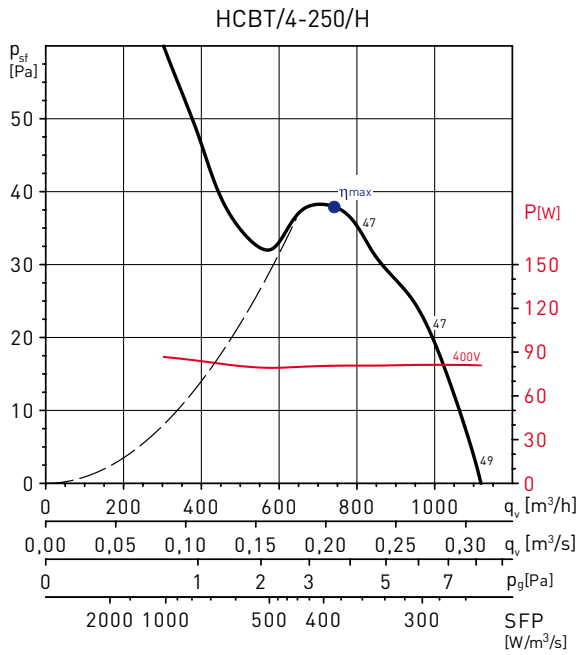
\* See example curve.



MC*	EC*	VSD*	SR*	η[%]*	N*	[kW]	[m³/h]	[Pa]	[RPM]
A	Static	No	1	34,6	39,2	1,878	10716	218	1305

\* See example curve.

**PERFORMANCE CURVES - 4 POLE MOTORS**



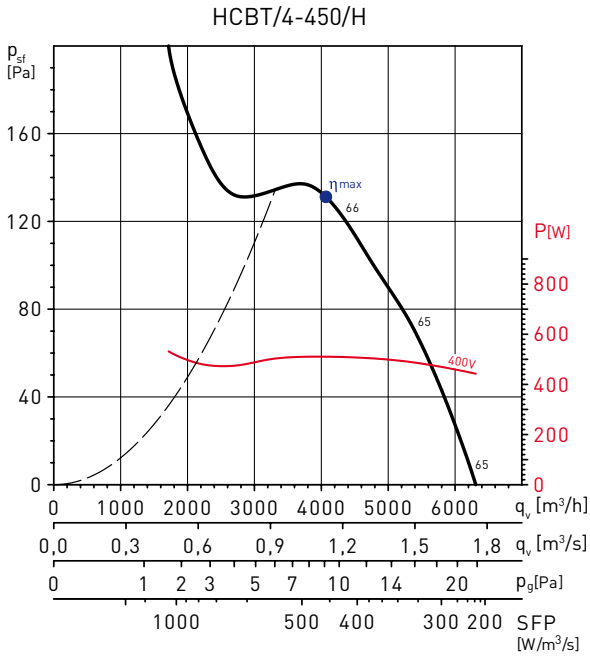
MC*	EC*	VSD*	SR*	η[%]*	N*	[kW]	[m³/h]	[Pa]	[RPM]
A	Static	No	1	27,6	38,6	0,180	2159	83	1355

\* See example curve.

MC*	EC*	VSD*	SR*	η[%]*	N*	[kW]	[m³/h]	[Pa]	[RPM]
A	Static	No	1	27,9	37,7	0,284	2824	101	1302

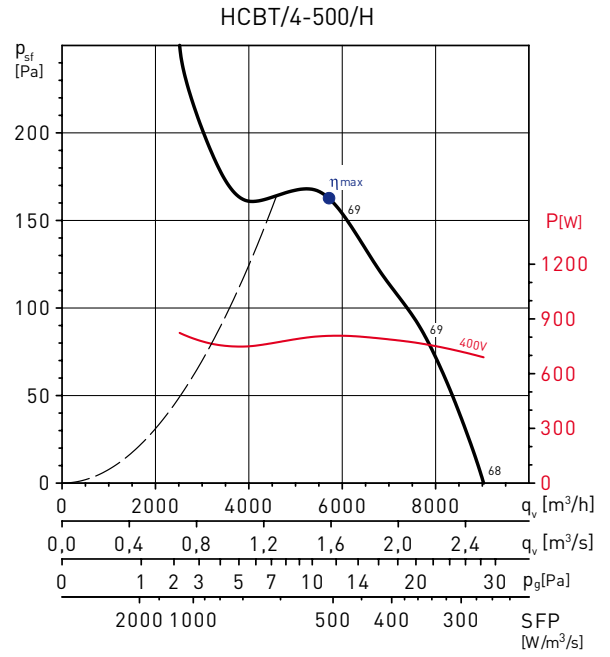
\* See example curve.

**PERFORMANCE CURVES - 4 POLE MOTORS**



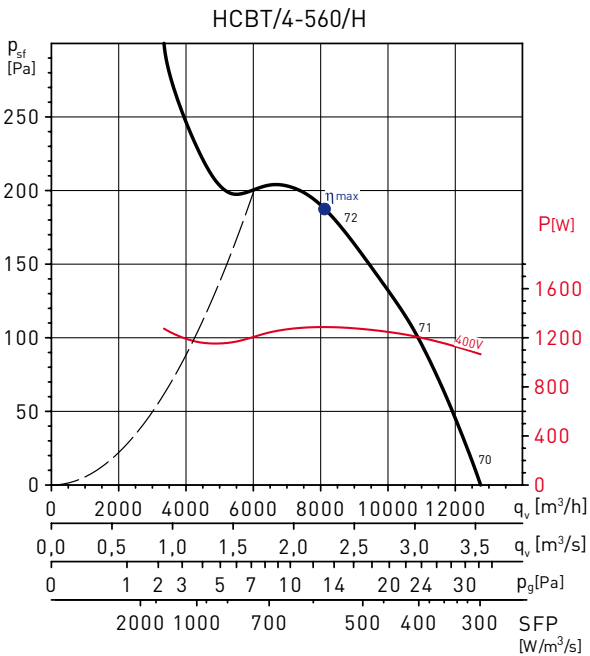
MC*	EC*	VSD*	SR*	η[%]*	N*	[kW]	[m³/h]	[Pa]	[RPM]
A	Static	No	1	29,0	37,2	0,510	4069	132	1310

\* See example curve.



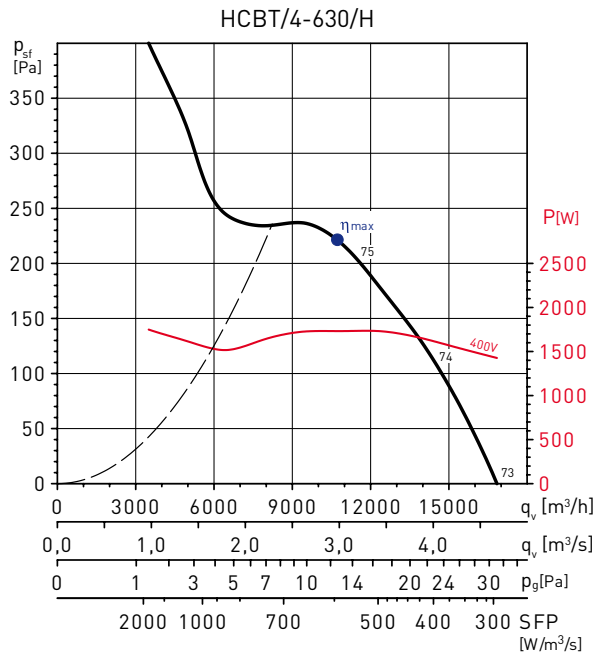
MC*	EC*	VSD*	SR*	η[%]*	N*	[kW]	[m³/h]	[Pa]	[RPM]
A	Static	No	1	31,9	38,8	0,808	5722	163	1357

\* See example curve.



MC*	EC*	VSD*	SR*	η[%]*	N*	[kW]	[m³/h]	[Pa]	[RPM]
A	Static	No	1	32,8	38,4	1,287	8117	188	1349

\* See example curve.



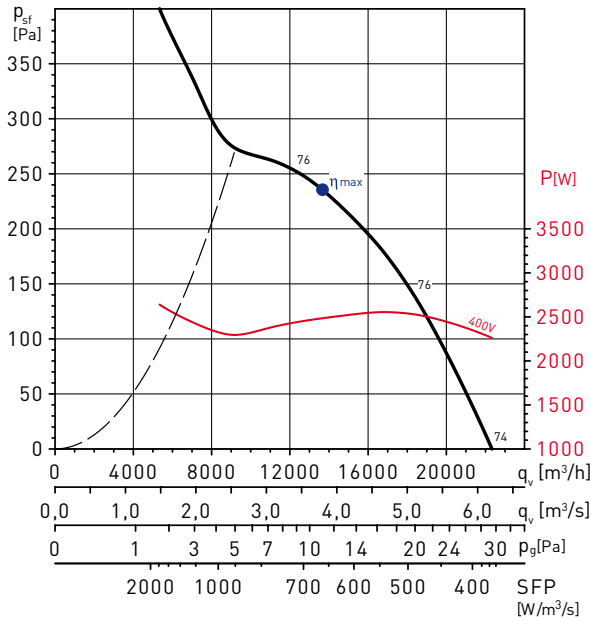
MC*	EC*	VSD*	SR*	η[%]*	N*	[kW]	[m³/h]	[Pa]	[RPM]
A	Static	No	1	38,1	42,9	1,731	10708	222	1355

\* See example curve.



**PERFORMANCE CURVES - 4 POLE MOTORS**

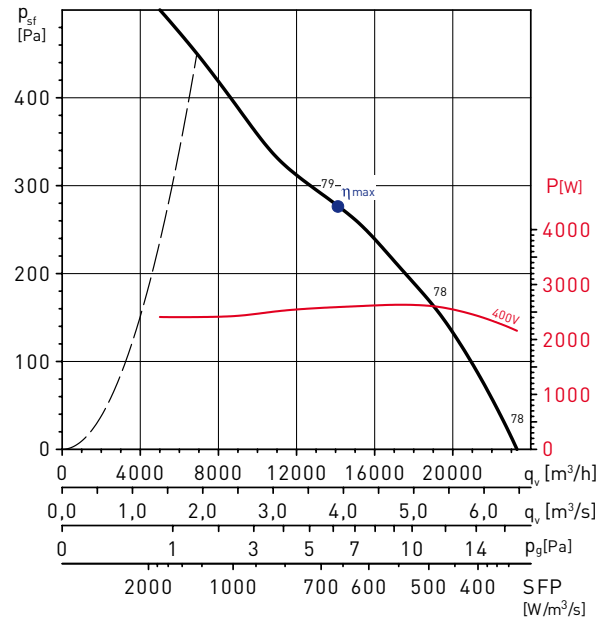
HCBT/4-710/H



MC*	EC*	VSD*	SR*	$\eta$ [%]*	N*	[kW]	[m <sup>3</sup> /h]	[Pa]	[RPM]
A	Static	No	1	35,9	39,7	2,483	13656	235	1326

\* See example curve.

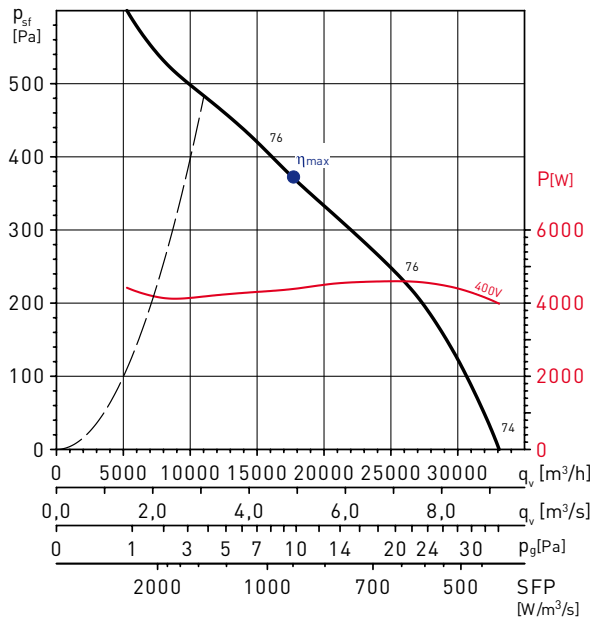
HCBT/4-800/L



MC*	EC*	VSD*	SR*	$\eta$ [%]*	N*	[kW]	[m <sup>3</sup> /h]	[Pa]	[RPM]
A	Static	No	1	42,2	45,9	2,589	14152	278	1376

\* See example curve.

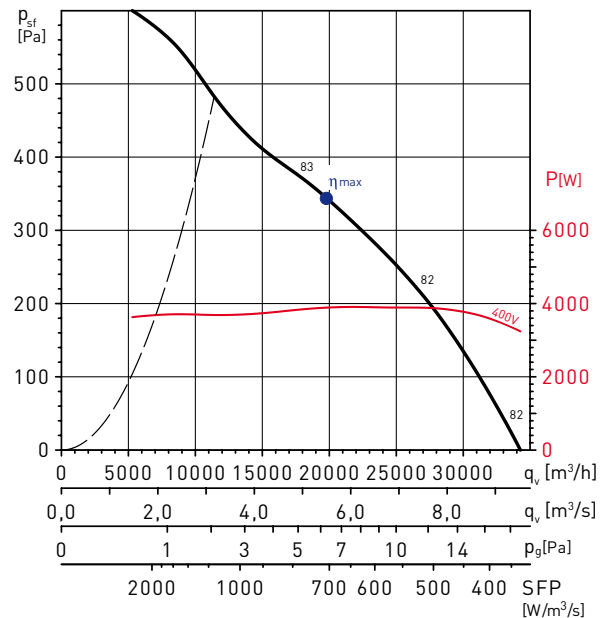
HCBT/4-800/H



MC*	EC*	VSD*	SR*	$\eta$ [%]*	N*	[kW]	[m <sup>3</sup> /h]	[Pa]	[RPM]
A	Static	No	1	41,7	44,0	4,389	17734	371	1431

\* See example curve.

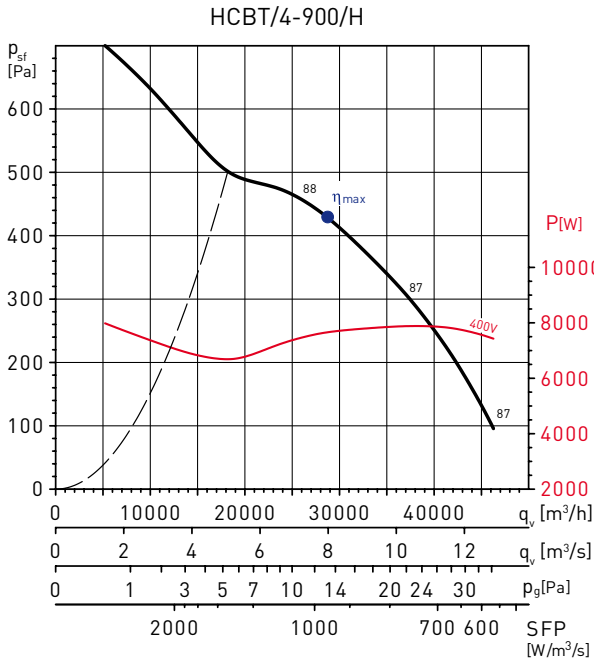
HCBT/4-900/L



MC*	EC*	VSD*	SR*	$\eta$ [%]*	N*	[kW]	[m <sup>3</sup> /h]	[Pa]	[RPM]
A	Static	No	1	48,6	51,2	3,889	19789	344	1436

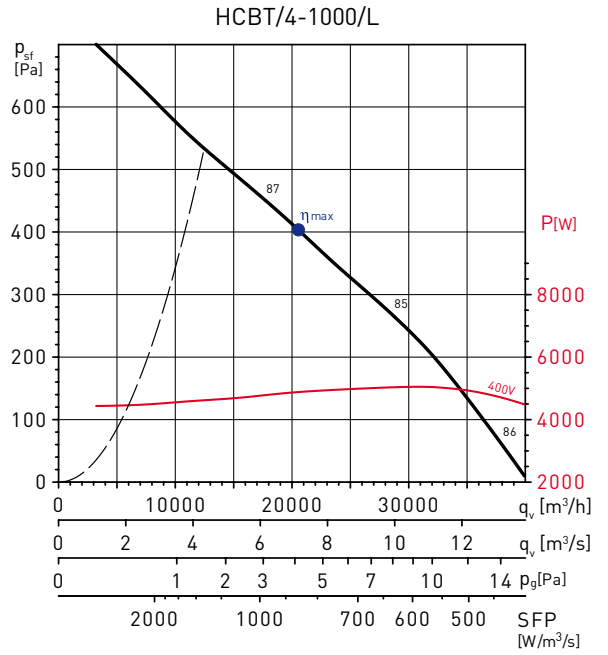
\* See example curve.

**PERFORMANCE CURVES - 4 POLE MOTORS**



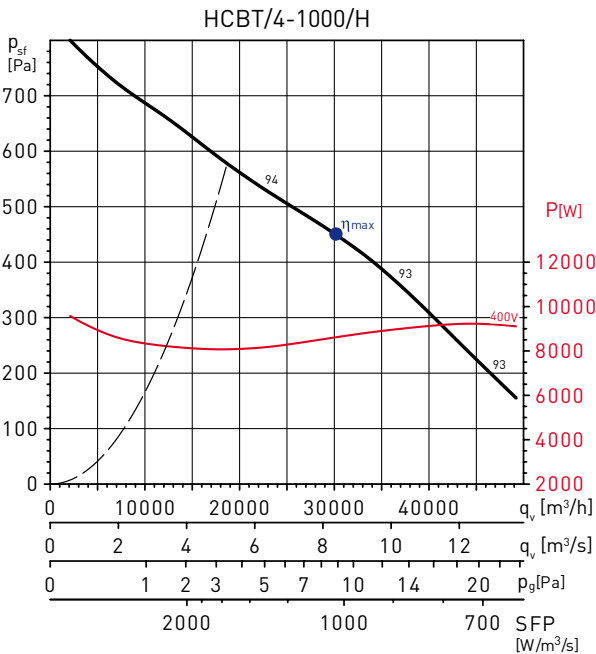
MC*	EC*	VSD*	SR*	η[%]*	N*	[kW]	[m³/h]	[Pa]	[RPM]
A	Static	No	1	44,7	45,5	7,657	28654	430	1446

\* See example curve.



MC*	EC*	VSD*	SR*	η[%]*	N*	[kW]	[m³/h]	[Pa]	[RPM]
A	Static	No	1	47,2	49,2	4,883	20544	404	1402

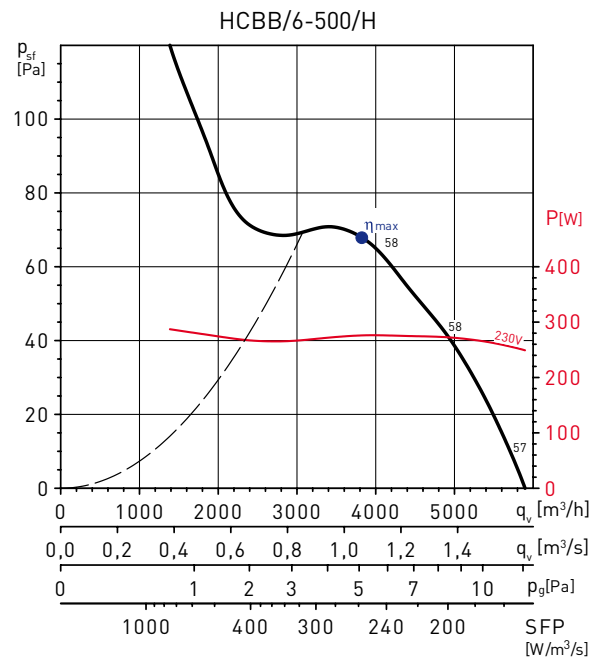
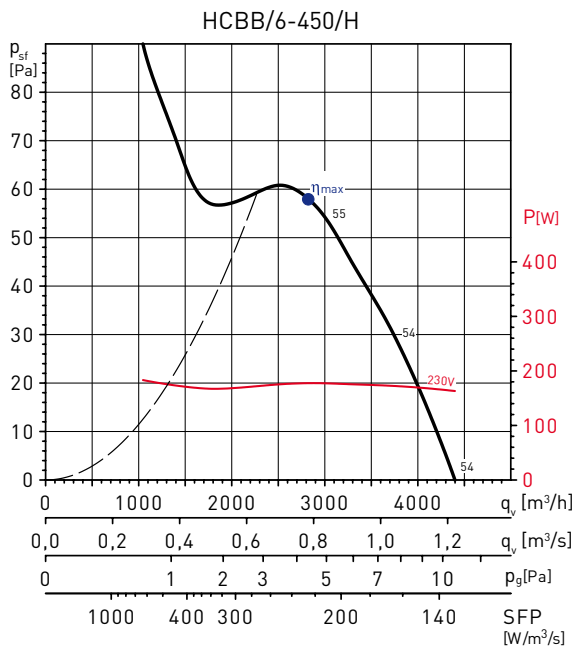
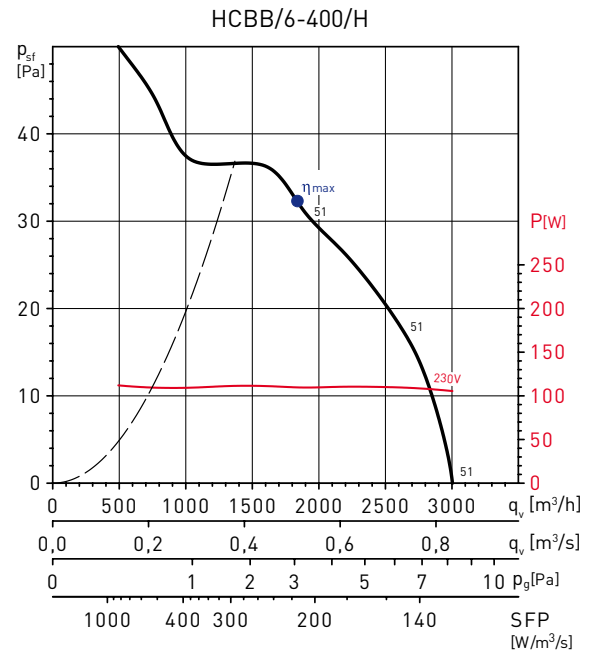
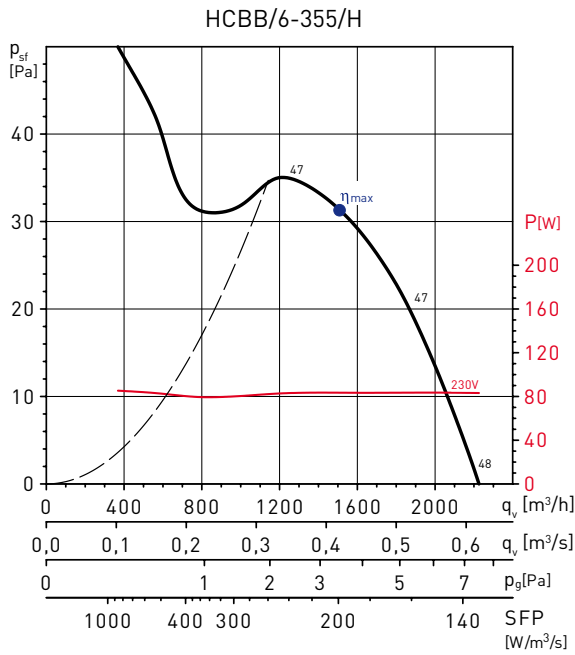
\* See example curve.



MC*	EC*	VSD*	SR*	η[%]*	N*	[kW]	[m³/h]	[Pa]	[RPM]
A	Static	No	1	43,7	44,1	8,620	30113	451	1437

\* See example curve.

**PERFORMANCE CURVES - 6 POLE MOTORS**



MC*	EC*	VSD*	SR*	$\eta$ [%]*	N*	[kW]	[ $m^3/h$ ]	[Pa]	[RPM]
A	Static	No	1	25,7	36,8	0,178	2829	58	839

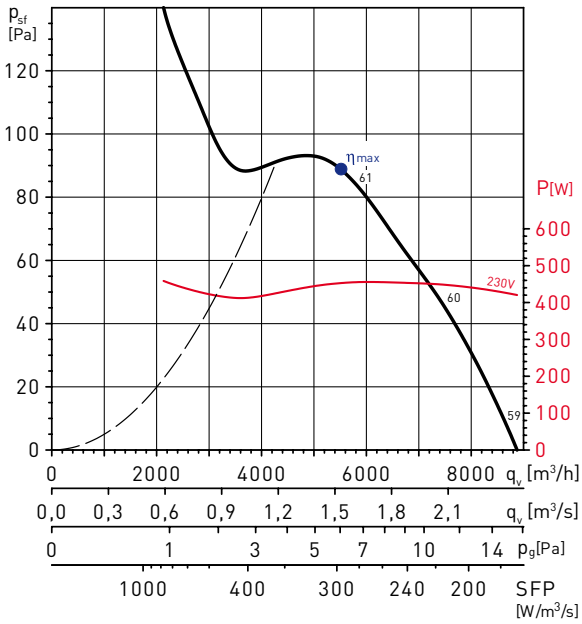
\* See example curve.

MC*	EC*	VSD*	SR*	$\eta$ [%]*	N*	[kW]	[ $m^3/h$ ]	[Pa]	[RPM]
A	Static	No	1	26,1	36,0	0,276	3823	68	885

\* See example curve.

**PERFORMANCE CURVES - 6 POLE MOTORS**

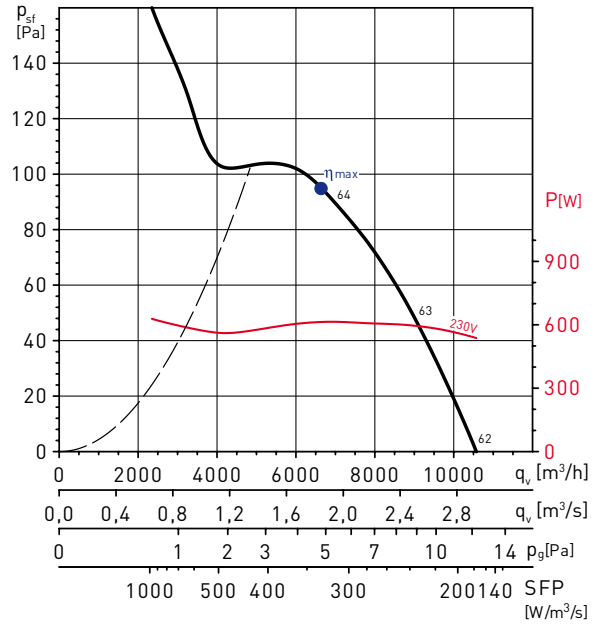
HCBB/6-560/H



MC*	EC*	VSD*	SR*	η[%]*	N*	[kW]	[m³/h]	[Pa]	[RPM]
A	Static	No	1	30,0	38,5	0,453	5516	89	890

\* See example curve.

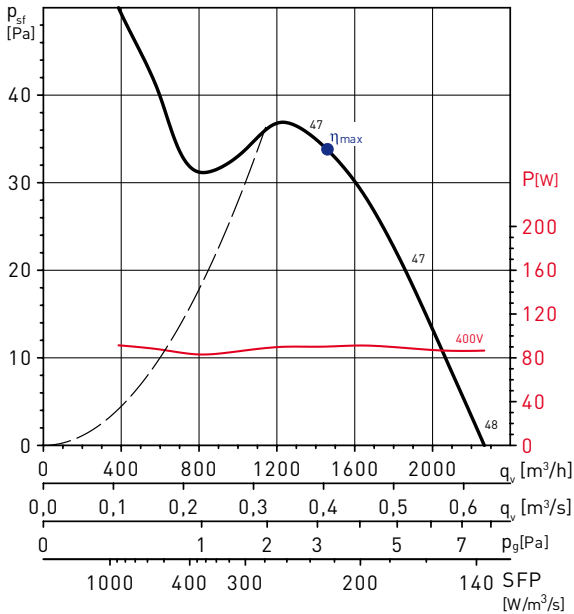
HCBB/6-630/H



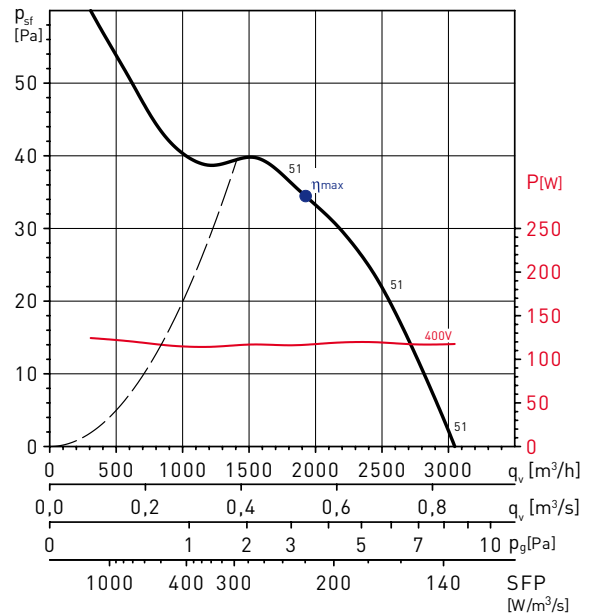
MC*	EC*	VSD*	SR*	η[%]*	N*	[kW]	[m³/h]	[Pa]	[RPM]
A	Static	No	1	28,5	36,2	0,614	6636	95	876

\* See example curve.

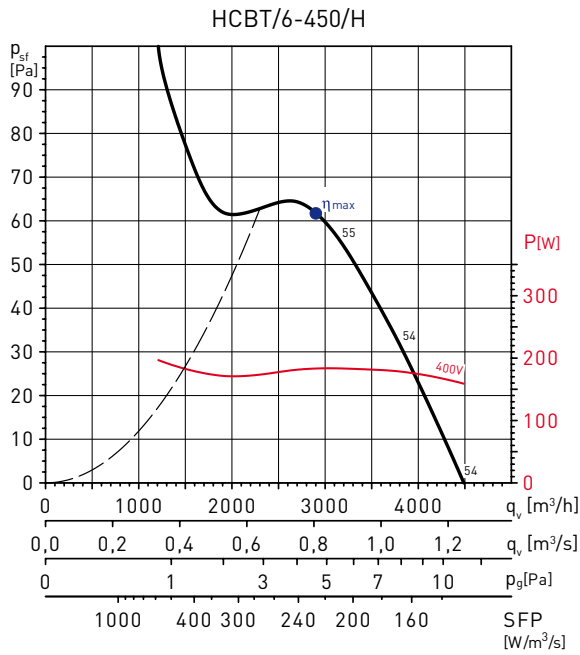
HCBT/6-355/H



HCBT/6-400/H

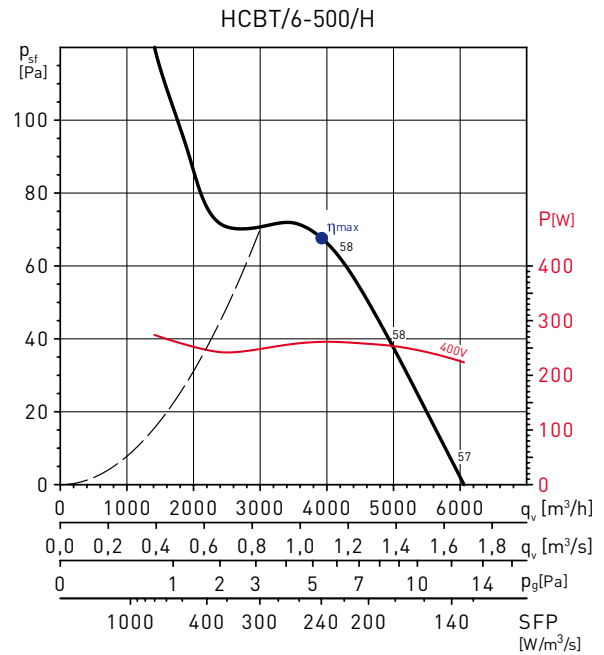


**PERFORMANCE CURVES - 6 POLE MOTORS**



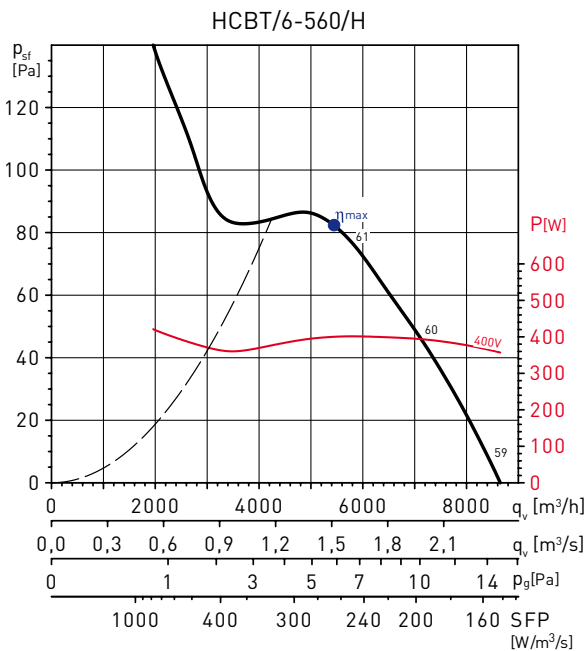
MC*	EC*	VSD*	SR*	$\eta$ [%]*	N*	[kW]	[ $m^3/h$ ]	[Pa]	[RPM]
A	Static	No	1	27,2	38,2	0,184	2905	62	928

\* See example curve.



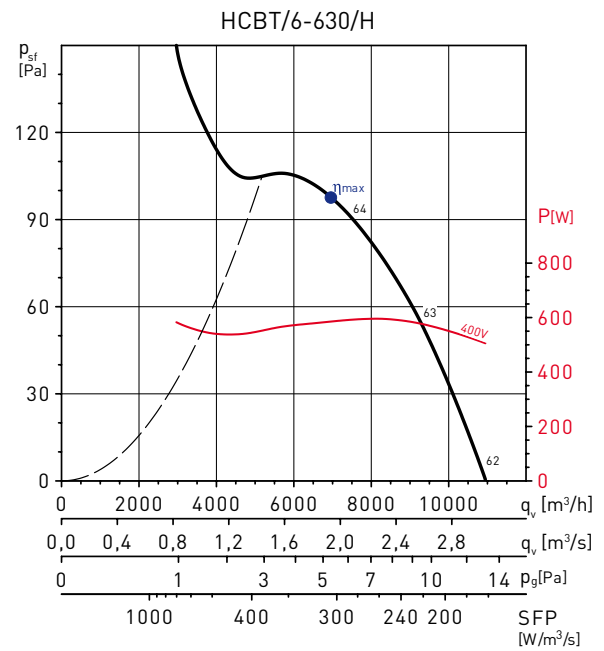
MC*	EC*	VSD*	SR*	$\eta$ [%]*	N*	[kW]	[ $m^3/h$ ]	[Pa]	[RPM]
A	Static	No	1	28,2	38,2	0,261	3924	68	883

\* See example curve.



MC*	EC*	VSD*	SR*	$\eta$ [%]*	N*	[kW]	[ $m^3/h$ ]	[Pa]	[RPM]
A	Static	No	1	31,2	40,0	0,400	5444	83	876

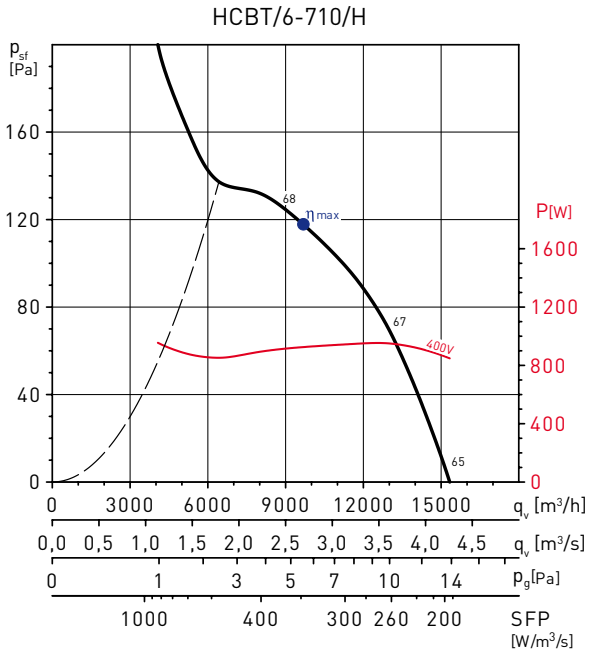
\* See example curve.



MC*	EC*	VSD*	SR*	$\eta$ [%]*	N*	[kW]	[ $m^3/h$ ]	[Pa]	[RPM]
A	Static	No	1	32,3	40,1	0,585	6954	98	889

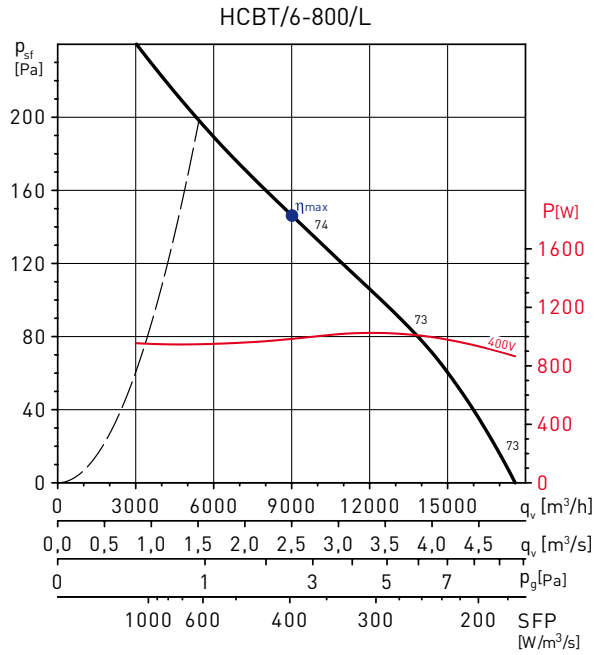
\* See example curve.

**PERFORMANCE CURVES - 6 POLE MOTORS**



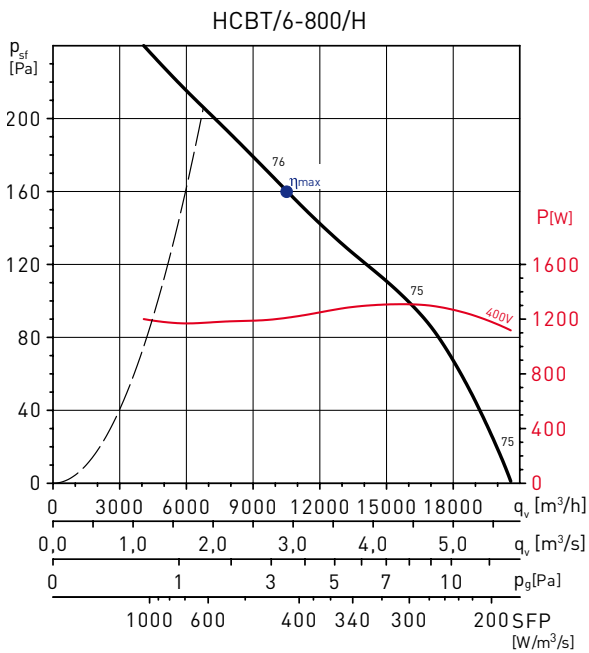
MC*	EC*	VSD*	SR*	η[%]*	N*	[kW]	[m³/h]	[Pa]	[RPM]
A	Static	No	1	34,2	40,7	0,926	9683	118	946

\* See example curve.



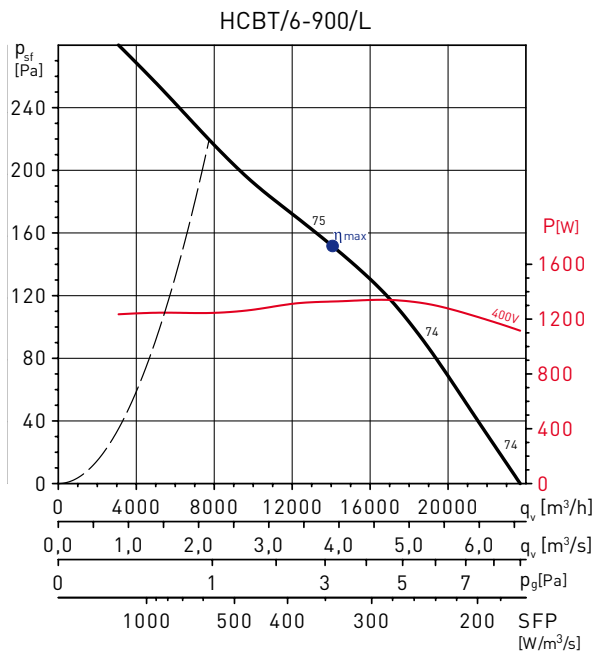
MC*	EC*	VSD*	SR*	η[%]*	N*	[kW]	[m³/h]	[Pa]	[RPM]
A	Static	No	1	37,2	43,6	0,984	9004	146	927

\* See example curve.



MC*	EC*	VSD*	SR*	η[%]*	N*	[kW]	[m³/h]	[Pa]	[RPM]
A	Static	No	1	38,8	44,6	1,208	10519	160	923

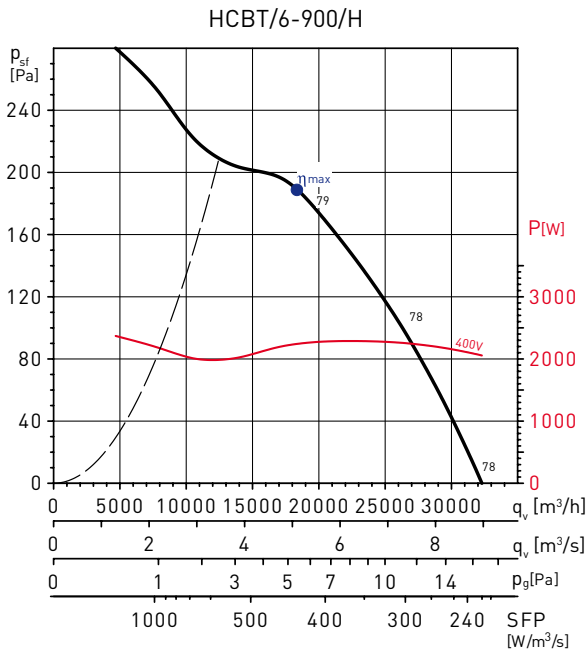
\* See example curve.



MC*	EC*	VSD*	SR*	η[%]*	N*	[kW]	[m³/h]	[Pa]	[RPM]
A	Static	No	1	44,6	50,2	1,329	14066	152	953

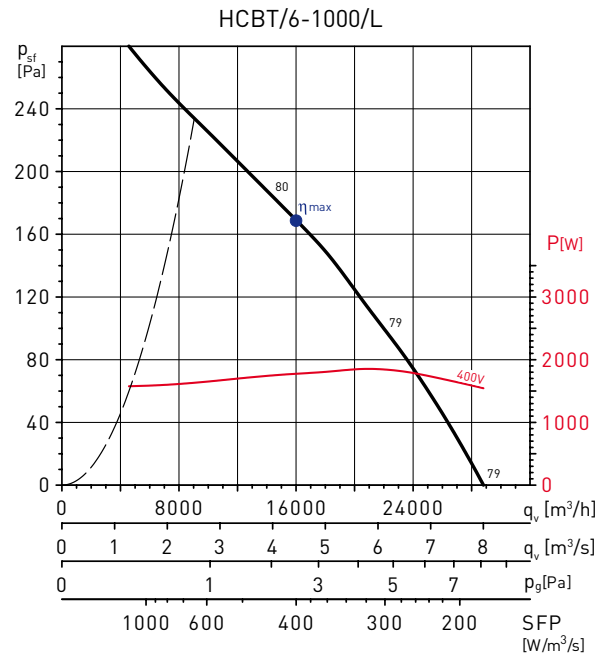
\* See example curve.

**PERFORMANCE CURVES - 6 POLE MOTORS**



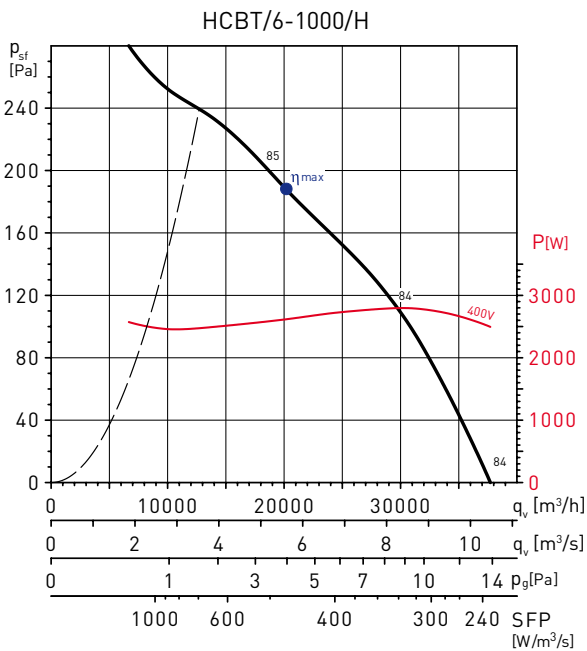
MC*	EC*	VSD*	SR*	$\eta$ [%]*	N*	[kW]	[m³/h]	[Pa]	[RPM]
A	Static	No	1	42,8	46,9	2,247	18590	187	943

\* See example curve.



MC*	EC*	VSD*	SR*	$\eta$ [%]*	N*	[kW]	[m³/h]	[Pa]	[RPM]
A	Static	No	1	42,4	47,2	1,775	16021	169	927

\* See example curve.



MC*	EC*	VSD*	SR*	$\eta$ [%]*	N*	[kW]	[m³/h]	[Pa]	[RPM]
A	Static	No	1	40,3	44,0	2,615	20140	188	929

\* See example curve.