

HEPT/EW

High-efficiency long-cased axial fans fitted with industrial Brushless motor E.C.

Fibreglass-reinforced plastic impeller.

Fan:

- Airflow direction from motor to impeller.
- Impeller in polyamide 6 reinforced with fibreglass.
- Sheet steel long casing.
- Electronic variable speed (VSD), three-phase or single-phase, is supplied with fan.

Motor and electronic variable speed:

- High-efficiency Industrial Brushless Motors E.C., fitted with electronic variable speed (VSD), adjustable via external control input 0-10V. IP65 protection.
- It is advisable to install an electronic variable speed drive (VSD) outside the working area.
- The external signal can be supplied through a manual or automatic control with 0-10 V output.
- Electronic variable speed drive (VSD), available with single-phase 220-240 V 50/60 Hz input (VSD1/B type) or three-phase 380-415 V 50/60 Hz (VSD3/B type). Standard protection IP20, on demand IP66 protection.

- By default, the electronic variable speed drive (VSD) is delivered programmed for constant speed.
- Working fan temperature: -25 °C +60 °C.
- Working temperature (VSD): -25 °C +50 °C.

Finish:

- Anticorrosive finish in polyester resin polymerised at 190°C, after alkaline degreasing with nanotechnology treatment and phosphate-free.

On request:

- Motor, impeller and guard unit (version F)
- Airflow direction from impeller to motor.



VARIABLE SPEED DRIVE
VSD: Variable Speed Drive.
• VSD1/B
• VSD3/B

Supply included with fan

CONTROL
Supply optional accessory

SUPPLY
VSD1/B:
220-240 V 50/60 Hz
VSD3/B:
380-415 V 50/60 Hz

Order code with variable speed drive (VSD) included

HEPT/EW — 31 — 2/H — B — T — D

HEPT/EW: High-efficiency long-cased axial fans, "Efficient work"

Impeller diameter in cm.

Maximum speed:
2=2850 rpm
4=1410 rpm
6=960 rpm

H=High airflow
L=Low airflow

Industrial Brushless Motors E.C.

M: Fitted with VSD1/B, electronic variable speed, single phase power supply 220-240 V 50/60 Hz.

T: Fitted with VSD3/B, electronic variable speed, three-phase power supply 380-415 V 50/60 Hz.

D: Standard version, VSD supplied programmed for constant speed.
P: Supplied with VSD programmed for pressure control and Si-Presión pressure transmitter
K: Supplied with VSD programmed for pressure control and built into a BOXPRES KIT/B box.

Technical characteristics

Model	Speed min/max (r/min)	Single-phase VSD 230 V50/60 Hz		Three-phase VSD 400 V50/60 Hz		Maximum electrical power (W)	Maximum Airflow min/max (m³/h)	Sound pressure level min/max dB(A)	Weight approx. (Kg)
		Maximum current input (A)	Model VSD	Maximum current input (A)	Model VSD				
HEPT/EW-31-2/H	300 / 2850	2.86	VSD1/B-0.37	0.84	VSD3/B-0.75	345	420 / 4000	25 / 74	7.4
HEPT/EW-31-4/H	300 / 1410	1.14	VSD1/B-0.37	0.34	VSD3/B-0.75	140	510 / 2400	21 / 55	6.2
HEPT/EW-35-2/H	300 / 2850	4.08	VSD1/B-0.37	1.20	VSD3/B-0.75	495	635 / 6020	27 / 76	9.4
HEPT/EW-35-4/H	300 / 1410	1.14	VSD1/B-0.37	0.34	VSD3/B-0.75	140	745 / 3500	24 / 58	7.6
HEPT/EW-40-4/H	300 / 1410	2.79	VSD1/B-0.37	0.82	VSD3/B-0.75	340	1105 / 5200	27 / 61	13.5
HEPT/EW-40-6/H	300 / 960	2.13	VSD1/B-0.37	0.62	VSD3/B-0.75	255	1095 / 3500	29 / 54	13.5
HEPT/EW-45-4/H	300 / 1410	3.96	VSD1/B-0.37	0.93	VSD3/B-0.75	450	1555 / 7300	32 / 66	15.5
HEPT/EW-45-4/L	300 / 1410	2.79	VSD1/B-0.37	0.82	VSD3/B-0.75	340	1235 / 5810	30 / 64	15.5
HEPT/EW-45-6/H	300 / 960	2.13	VSD1/B-0.37	0.62	VSD3/B-0.75	255	1530 / 4900	31 / 56	15.5
HEPT/EW-50-4/H	300 / 1410	5.82	VSD1/B-0.75	1.37	VSD3/B-0.75	660	2160 / 10150	35 / 69	18.0
HEPT/EW-50-4/L	300 / 1410	2.79	VSD1/B-0.37	0.82	VSD3/B-0.75	340	1555 / 7300	33 / 67	18.0

Technical characteristics

Model	Speed min/max	Single-phase VSD 230 V50/60 Hz		Three-phase VSD 400 V50/60 Hz		Maximum electrical power	Maximum Airflow min/max	Sound pressure level min/max	Weight approx.
	(r/min)	Maximum current input (A)	Model VSD	Maximum current input (A)	Model VSD	(W)	(m³/h)	dB(A)	(Kg)
HEPT/EW-50-6/H	300 / 960	2.13	VSD1/B-0.37	0.62	VSD3/B-0.75	255	1920 / 6150	34 / 59	18.0
HEPT/EW-56-4/H	300 / 1410	7.94	VSD1/B-0.75	1.87	VSD3/B-0.75	905	2725 / 12800	38 / 72	28.0
HEPT/EW-56-4/L	300 / 1410	5.82	VSD1/B-0.75	1.37	VSD3/B-0.75	660	2320 / 10900	36 / 70	28.0
HEPT/EW-56-6/H	300 / 960	2.93	VSD1/B-0.37	0.68	VSD3/B-0.75	330	2580 / 8250	37 / 62	28.0
HEPT/EW-63-4/H	300 / 1410	11.25	VSD1/B-0.75	2.65	VSD3/B-1.5	1295	3980 / 18700	48 / 82	33.5
HEPT/EW-63-4/L	300 / 1410	7.94	VSD1/B-0.75	1.87	VSD3/B-0.75	905	3510 / 16500	41 / 75	33.5
HEPT/EW-63-6/H	300 / 960	4.28	VSD1/B-0.37	1.00	VSD3/B-0.75	480	3765 / 12050	40 / 65	33.5

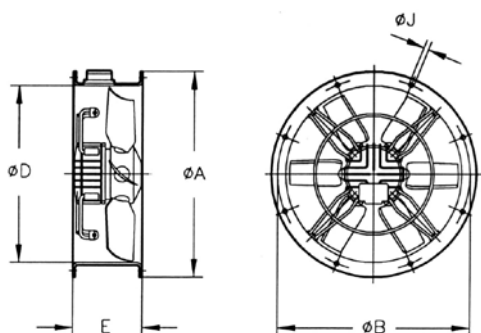
Acoustic features at maximum speed

The specified values are determined according to free field measurements of pressure and sound levels in dB(A) at an equivalent distance of twice the fan's span plus the impeller's diameter, with a minimum of 1.5 m.

Sound power Lw(A) spectrum in dB(A) via frequency band in Hz.

Model	63	125	250	500	1000	2000	4000	8000	Model	63	125	250	500	1000	2000	4000	8000
HEPT/EW-31-2/H	49	62	74	78	80	80	76	68	HEPT/EW-50-4/H	46	60	72	75	77	78	74	65
HEPT/EW-31-4/H	30	43	55	59	61	61	57	49	HEPT/EW-50-4/L	44	58	70	73	75	76	72	63
HEPT/EW-35-2/H	51	64	76	80	82	82	78	70	HEPT/EW-50-6/H	36	50	62	65	67	68	64	55
HEPT/EW-35-4/H	33	46	58	62	64	64	60	52	HEPT/EW-56-4/H	49	63	75	78	80	81	77	68
HEPT/EW-40-4/H	36	49	61	65	67	67	63	55	HEPT/EW-56-4/L	47	61	73	76	78	79	75	66
HEPT/EW-40-6/H	29	42	54	58	60	60	56	48	HEPT/EW-56-6/H	39	53	65	68	70	71	67	58
HEPT/EW-45-4/H	43	57	69	72	74	75	71	62	HEPT/EW-63-4/H	61	75	87	90	92	92	89	80
HEPT/EW-45-4/L	41	55	67	70	72	73	69	60	HEPT/EW-63-4/L	54	68	80	83	85	85	82	73
HEPT/EW-45-6/H	33	47	59	62	64	65	61	52	HEPT/EW-63-6/H	44	58	70	73	75	75	72	63

Dimensions in mm



Model	ØA	ØB	ØD	E	ØJ	Drills No.
HEPT/EW-31	385	355	308	200	10	8
HEPT/EW-35	425	395	360	220	10	8
HEPT/EW-40	490	450	410	220	12	8
HEPT/EW-45	540	500	460	220	12	8
HEPT/EW-50	600	560	514	230	12	12
HEPT/EW-56	660	620	560	260	12	12
HEPT/EW-63	730	690	635	350	12	12



Erp. Characteristic curves and ErP data

See HEP/EW-HEPT/EW model characteristic curves

Accessories

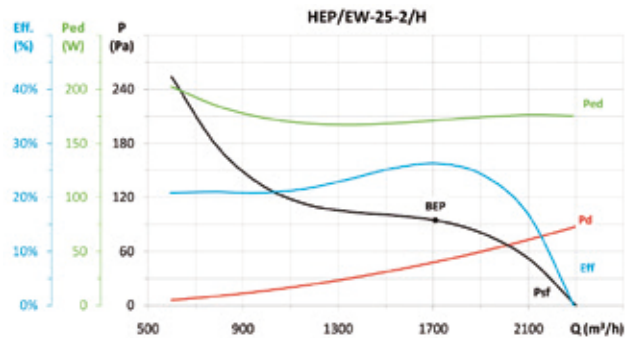
See accessories section.





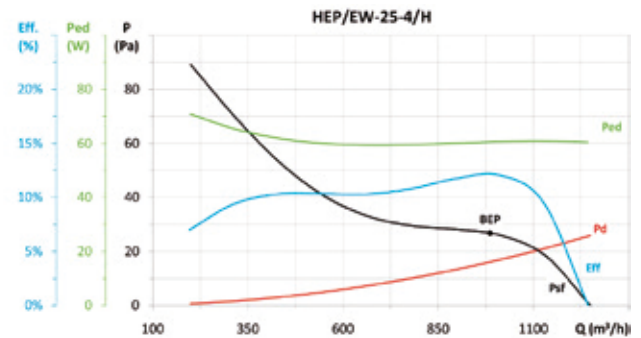
Erp. Characteristic curves and ErP data

HEP/EW-HEPT/EW models

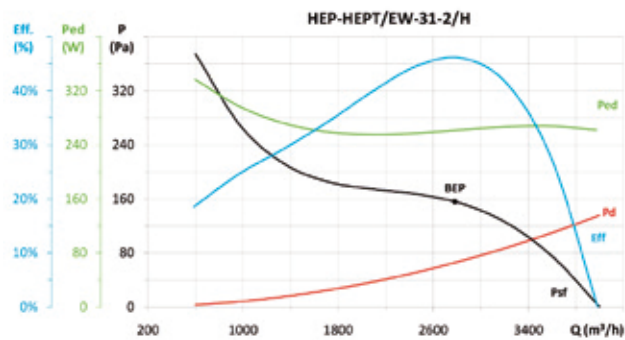


MC	EC	SR	Cc	η_b (%)	N	[kW]	[m³/h]	[Pa]	[rpm]	VSD
A	S	1,00	1,14	29,9%	41,1	0,171	1709	94,7	2850	INCLUDED

* η_e (%) = Eff. (%) x Cc

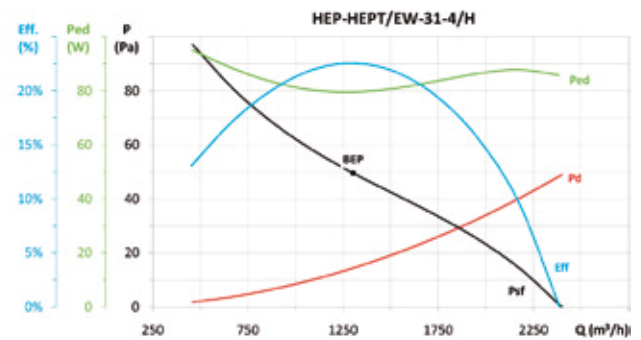


MC	EC	SR	Cc	η_b (%)	N	[kW]	[m³/h]	[Pa]	[rpm]	VSD
A	S	-	-	-	-	0,061	986	26,8	1410	INCLUDED

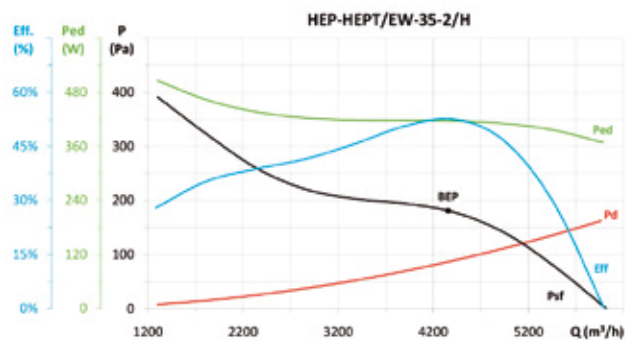


MC	EC	SR	Cc	η_b (%)	N	[kW]	[m³/h]	[Pa]	[rpm]	VSD
A	S	1,00	1,13	52,0%	62,0	0,261	2782	155,9	2850	INCLUDED

* η_e (%) = Eff. (%) x Cc

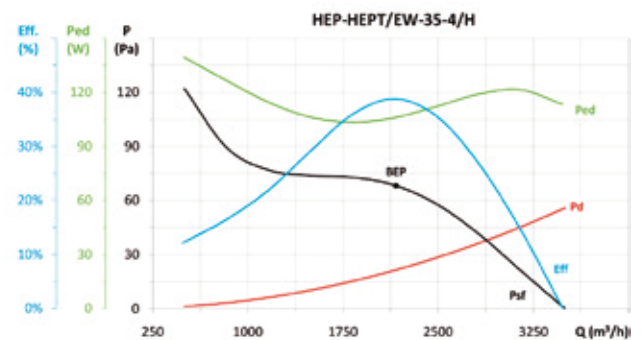


MC	EC	SR	Cc	η_b (%)	N	[kW]	[m³/h]	[Pa]	[rpm]	VSD
A	S	-	-	-	-	0,080	1304	49,5	1410	INCLUDED

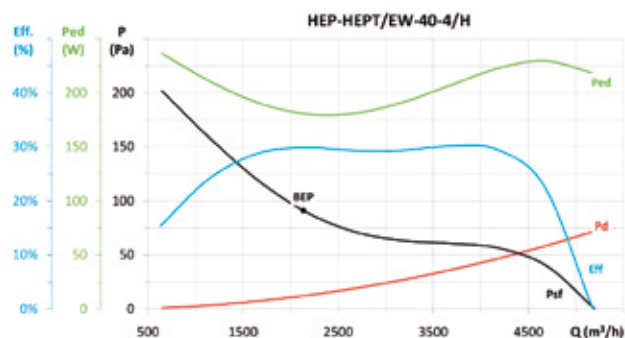


MC	EC	SR	Cc	η_b (%)	N	[kW]	[m³/h]	[Pa]	[rpm]	VSD
A	S	1,00	1,11	58,5%	67,3	0,417	4356	181,1	2850	INCLUDED

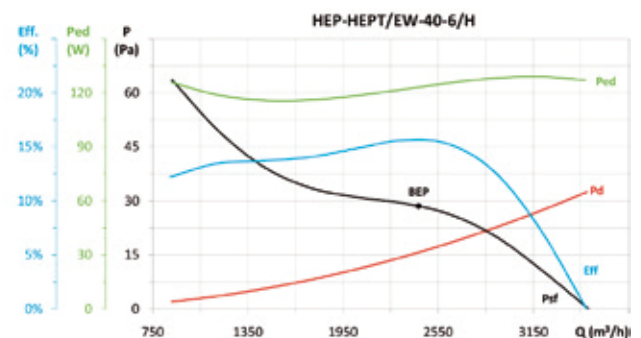
* η_e (%) = Eff. (%) x Cc



MC	EC	SR	Cc	η_b (%)	N	[kW]	[m³/h]	[Pa]	[rpm]	VSD
A	S	-	-	-	-	0,106	2167	68,2	1410	INCLUDED



MC	EC	SR	Cc	η_b (%)	N	[kW]	[m³/h]	[Pa]	[rpm]	VSD
A	S	1,00	1,14	34,0%	45,0	0,181	2135	91,0	1410	INCLUDED

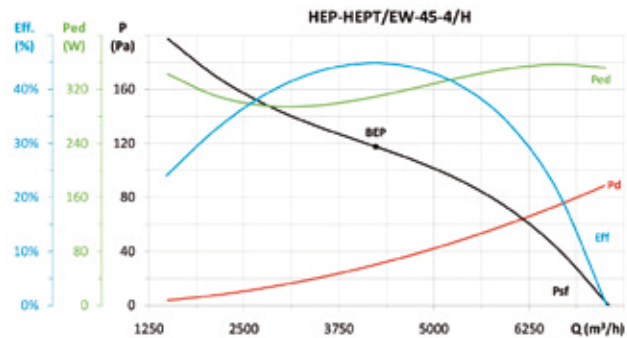


MC	EC	SR	Cc	η_b (%)	N	[kW]	[m³/h]	[Pa]	[rpm]	VSD
A	S	-	-	-	-	0,123	2428	28,6	960	INCLUDED



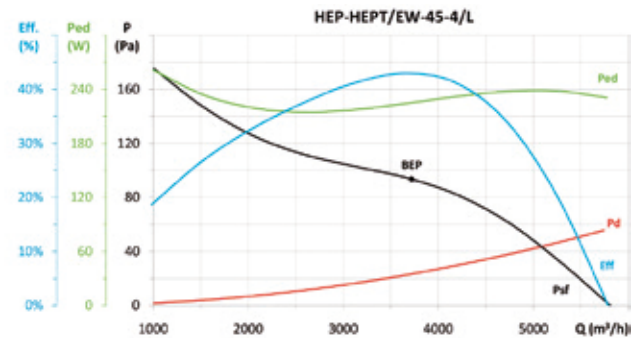
Erp. Characteristic curves and ErP data

HEP/EW-HEPT/EW models



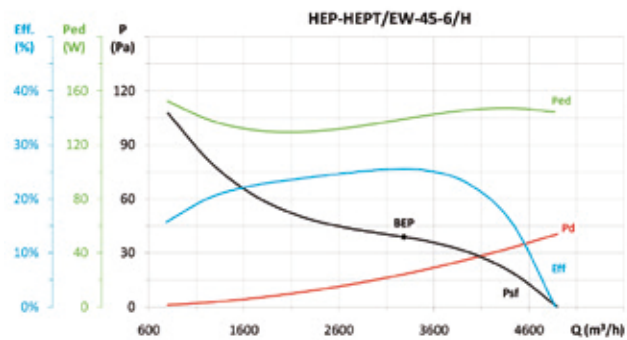
MC	EC	SR	Cc	η_e (%)	N	[kW]	[m³/h]	[Pa]	[rpm]	VSD
A	S	1,00	1,12	50,3%	59,8	0,309	4235	117,6	1410	INCLUDED

* η_e (%) = Eff. (%) x Cc



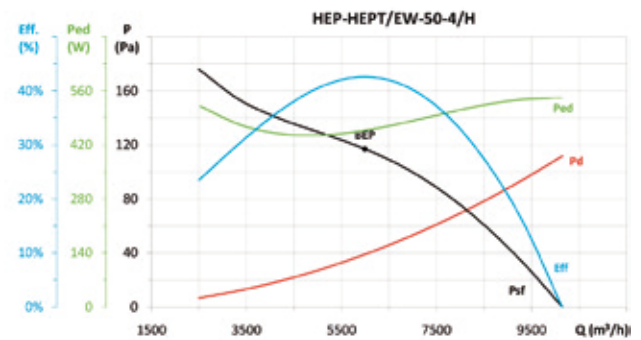
MC	EC	SR	Cc	η_e (%)	N	[kW]	[m³/h]	[Pa]	[rpm]	VSD
A	S	1,00	1,13	48,6%	59,0	0,225	3719	93,5	1410	INCLUDED

* η_e (%) = Eff. (%) x Cc



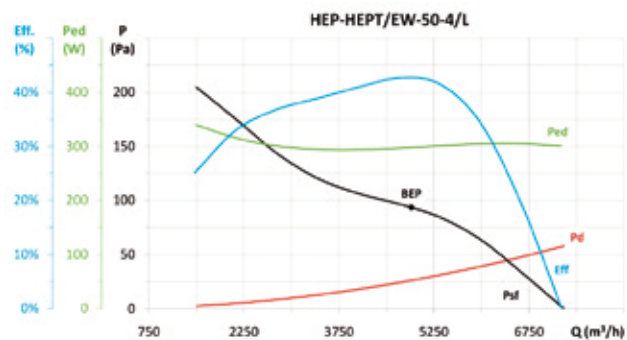
MC	EC	SR	Cc	η_e (%)	N	[kW]	[m³/h]	[Pa]	[rpm]	VSD
A	S	1,00	1,15	29,3%	41,0	0,139	3284	38,9	960	INCLUDED

* η_e (%) = Eff. (%) x Cc



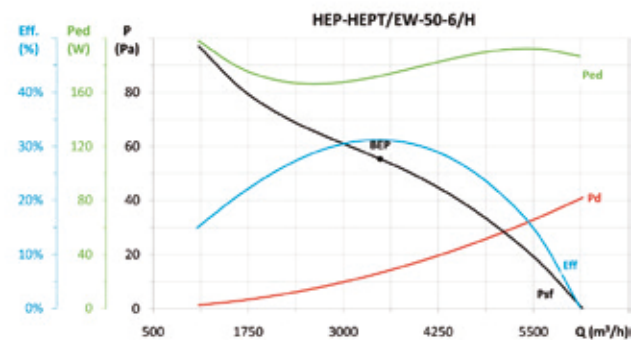
MC	EC	SR	Cc	η_e (%)	N	[kW]	[m³/h]	[Pa]	[rpm]	VSD
A	S	1,00	1,11	47,3%	55,8	0,457	5994	117,0	1410	INCLUDED

* η_e (%) = Eff. (%) x Cc



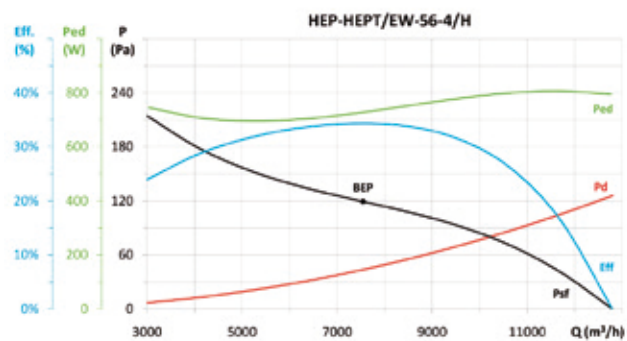
MC	EC	SR	Cc	η_e (%)	N	[kW]	[m³/h]	[Pa]	[rpm]	VSD
A	S	1,00	1,12	48,0%	57,7	0,298	4894	93,6	1410	INCLUDED

* η_e (%) = Eff. (%) x Cc



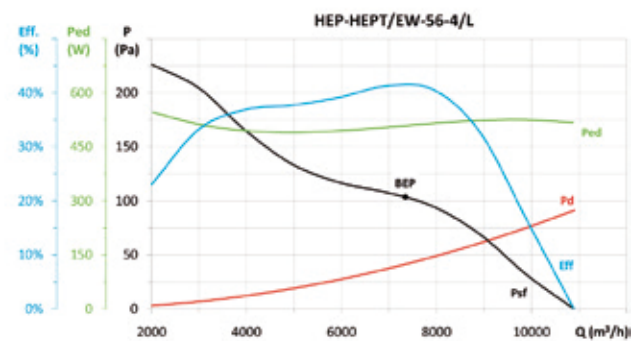
MC	EC	SR	Cc	η_e (%)	N	[kW]	[m³/h]	[Pa]	[rpm]	VSD
A	S	1,00	1,14	35,5%	46,7	0,172	3484	55,4	960	INCLUDED

* η_e (%) = Eff. (%) x Cc



MC	EC	SR	Cc	η_e (%)	N	[kW]	[m³/h]	[Pa]	[rpm]	VSD
A	S	1,00	1,10	37,7%	44,9	0,728	7546	119,3	1410	INCLUDED

* η_e (%) = Eff. (%) x Cc



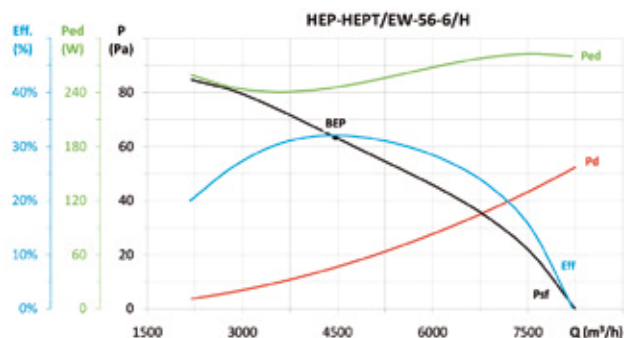
MC	EC	SR	Cc	η_e (%)	N	[kW]	[m³/h]	[Pa]	[rpm]	VSD
A	S	1,00	1,11	46,0%	54,2	0,509	7344	103,7	1410	INCLUDED

* η_e (%) = Eff. (%) x Cc



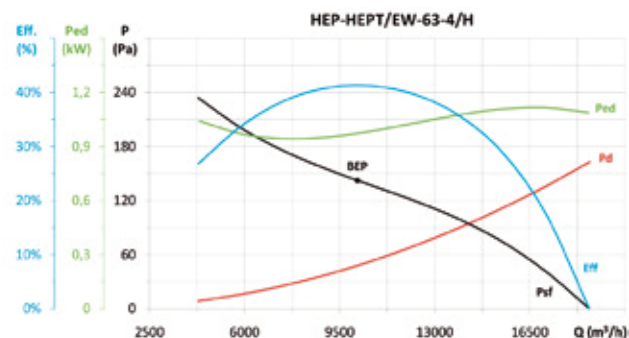
Erp. Characteristic curves and ErP data

HEP/EW-HEPT/EW models



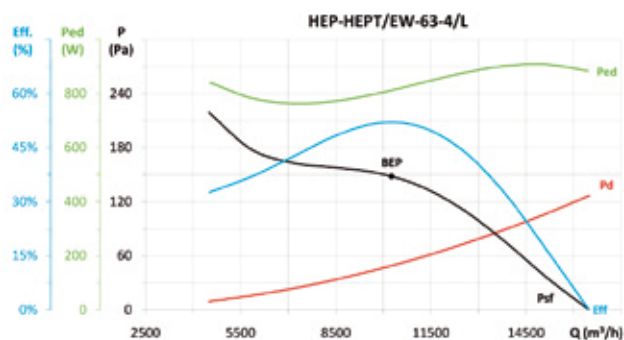
MC	EC	SR	Cc	η_e (%)*	N	[kW]	[m³/h]	[Pa]	[rpm]	VSD
A	S	1,00	1,13	36,2%	46,4	0,245	4469	63,4	960	INCLUDED

* η_e (%) = Eff. (%) x Cc



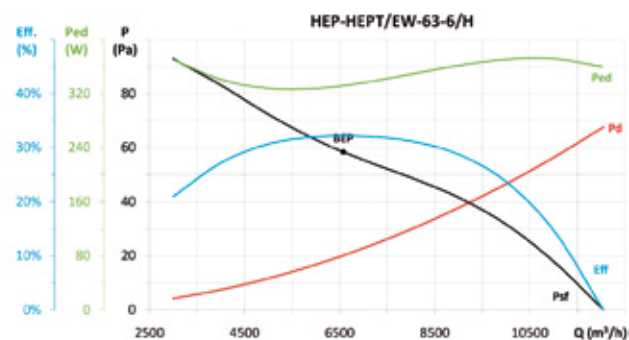
MC	EC	SR	Cc	η_e (%)*	N	[kW]	[m³/h]	[Pa]	[rpm]	VSD
A	S	1,00	1,09	44,9%	51,3	0,973	10152	142,4	1410	INCLUDED

* η_e (%) = Eff. (%) x Cc



MC	EC	SR	Cc	η_e (%)*	N	[kW]	[m³/h]	[Pa]	[rpm]	VSD
A	S	1,00	1,09	56,9%	63,8	0,812	10263	148,1	1410	INCLUDED

* η_e (%) = Eff. (%) x Cc



MC	EC	SR	Cc	η_e (%)*	N	[kW]	[m³/h]	[Pa]	[rpm]	VSD
A	S	1,00	1,12	36,0%	45,4	0,332	6577	58,4	960	INCLUDED

* η_e (%) = Eff. (%) x Cc