HT-L/EW

INDUSTRIAL BRUSHLESS MOTOR E.C.

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

Supply included with fan

CONTROL
Supply optional accesory

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

Axial roof fans with flat base fitted with industrial Brushless motor E.C.

Fan:
- Galvanised and coated sheet steel base plate.
- Impeller in polyamide 6 reinforced with fibreglass.
- Bird protection guard
- Galvanised steelsheet vain hood, with anti-corrosion coating.
- Airflow direction from motor to impeller.

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. IP55 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:
- Possibility of supply as IMPULSION FANS
- AL version cast aluminium impeller.

Order code with variable speed drive (VSD) included

HT-L/EW — 25 — 4 — B — T — D

- **HT-L/EW**: HT-L/EW: Highly-efficient axial roof fans with flat base, “Efficient work”
- **25**: Impeller diameter in cm.
- **4**: Number of poles: 4=1410 r/min 6=960 r/min
- **B**: Industrial Brushless Motors E.C.
- **T**: 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**: 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	Single-phase VSD 230 V50/60 Hz		Three-phase VSD 400 V50/60 Hz		Maximum electrical power	Maximum Airflow min/max	Sound pressure level Lp dB(A)		Weight approx.
	(r/min)	Maximum current input (A)	Model VSD	Maximum current input (A)	Model VSD	(W)	(m^3/h)	Inlet min/max	Outlet min/max	(Kg)
HT-L/EW-25-4	300 / 1410	1.44	VSD1/B-0.37	0.42	VSD3/B-0.75	175	230 / 1080	7 / 41	6 / 40	12.5
HT-L/EW-31-4	300 / 1410	1.44	VSD1/B-0.37	0.42	VSD3/B-0.75	175	385 / 1800	13 / 47	12 / 46	13.5
HT-L/EW-35-4	300 / 1410	1.44	VSD1/B-0.37	0.42	VSD3/B-0.75	175	555 / 2600	14 / 48	13 / 47	17.5
HT-L/EW-40-4	300 / 1410	2.79	VSD1/B-0.37	0.82	VSD3/B-0.75	340	980 / 4600	17 / 51	16 / 50	21
HT-L/EW-45-4	300 / 1410	3.96	VSD1/B-0.37	0.93	VSD3/B-0.75	450	1385 / 6500	21 / 55	20 / 54	30.5
HT-L/EW-50-4	300 / 1410	5.82	VSD1/B-0.75	1.37	VSD3/B-0.75	660	1810 / 8500	25 / 59	23 / 57	39
HT-L/EW-56-4	300 / 1410	7.94	VSD1/B-0.75	1.87	VSD3/B-0.75	905	2085 / 9800	27 / 61	23 / 57	37
HT-L/EW-56-6	300 / 960	2.93	VSD1/B-0.37	0.68	VSD3/B-0.75	330	2065 / 6600	23 / 48	21 / 46	46
HT-L/EW-63-4	300 / 1410	11.25	VSD1/B-0.75	2.65	VSD3/B-1.5	1295	2980 / 14000	29 / 63	25 / 59	65.8
HT-L/EW-63-6	300 / 960	4.28	VSD1/B-0.37	1.00	VSD3/B-0.75	480	2875 / 9200	27 / 52	24 / 49	61.8

Acoustic features at maximum speed

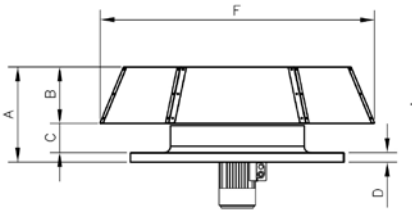
The specified values are determined according to free field measurements of pressure and sound levels in dB(A) at a distance of 6 m.

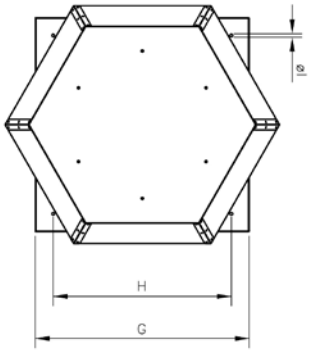
Sound power Lw(A) spectrum in dB(A) via frequency band in Hz.

	Inlet								Outlet							
Model	**63**	**125**	**250**	**500**	**1000**	**2000**	**4000**	**8000**	**63**	**125**	**250**	**500**	**1000**	**2000**	**4000**	**8000**
HT-L/EW-25-4	27	37	54	54	62	58	51	42	26	36	53	53	61	57	50	41
HT-L/EW-31-4	33	43	60	60	68	64	57	48	32	42	59	59	67	63	56	47
HT-L/EW-35-4	34	44	61	61	69	65	58	49	33	43	60	60	68	64	57	48
HT-L/EW-40-4	28	45	57	65	70	70	66	59	27	44	56	64	69	69	65	58
HT-L/EW-45-4	32	49	61	69	74	74	70	63	30	47	59	67	72	72	68	61
HT-L/EW-50-4	36	53	65	73	78	78	74	67	34	51	63	71	76	76	72	65
HT-L/EW-56-4	38	55	67	75	80	80	76	69	34	51	63	71	76	76	72	65
HT-L/EW-56-6	25	42	54	62	67	67	63	56	23	40	52	60	65	65	61	54
HT-L/EW-63-4	40	57	69	77	82	82	78	71	36	53	65	73	78	78	74	67
HT-L/EW-63-6	29	46	58	66	71	71	67	60	26	43	55	63	68	68	64	57

Dimensions in mm

Model	A	B	C	D	F	G	H	I
HT-L/EW-25	223	140	43	40	634	450	360	12
HT-L/EW-31	245	140	65	40	634	500	410	12
HT-L/EW-35	270	184	61	40	808	560	450	12
HT-L/EW-40	295	184	86	40	808	630	530	12
HT-L/EW-45	342	202	90	50	923	710	590	12
HT-L/EW-50	373	238	85	50	1154	880	680	12
HT-L/EW-56	402	238	124	40	1154	900	750	14
HT-L/EW-63	457	277	141	40	1384	1000	850	14



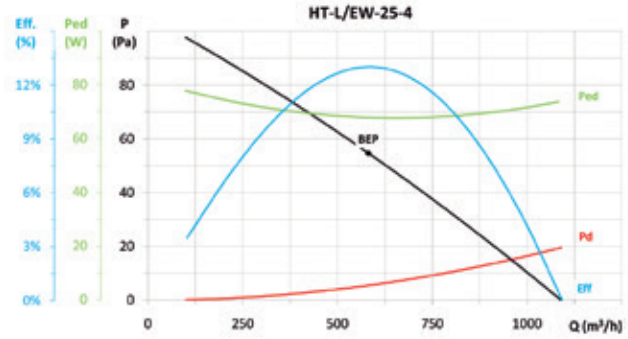


Accessories

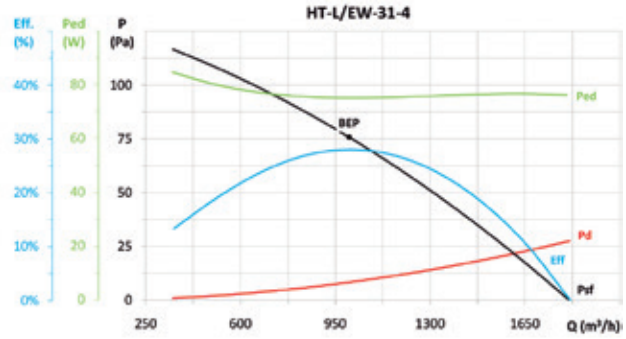
See accessories section.

INT BTUB MS PA OP S BS BSS CONTROL UNITS AND SENSORS

Erp. Characteristic curves and ErP data



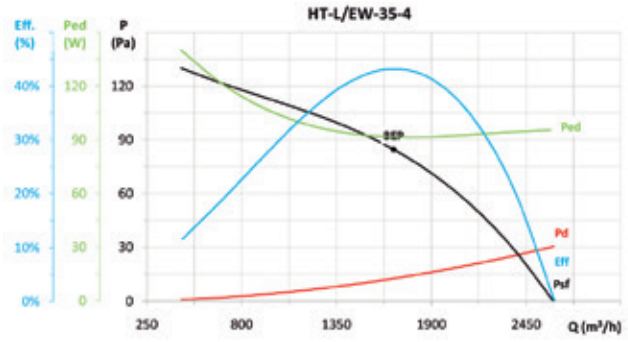
MC	EC	SR	Cc	η_e (%)*	N	[kW]	[m³/h]	[Pa]	[rpm]	VSD
A	S	-	-	-	-	0,068	581	55	1410	INCLUDED



MC	EC	SR	Cc	η_e (%)*	N	[kW]	[m³/h]	[Pa]	[rpm]	VSD
A	S	-	-	-	-	0,075	1000	76	1410	INCLUDED

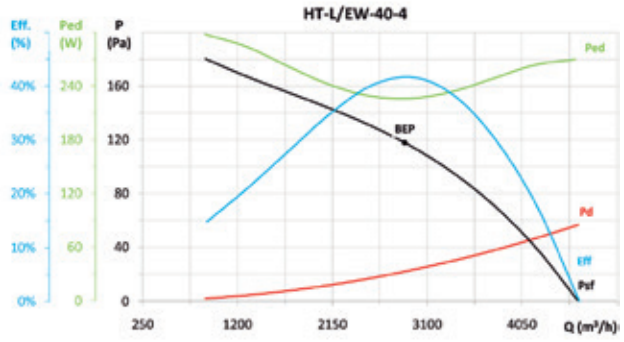
Erp. Characteristic curves and ErP data

HT-L/EW-35-4



MC	EC	SR	Cc	η_e (%)*	N	[kW]	[m³/h]	[Pa]	[rpm]	VSD
A	S	-	-	-	-	0,091	1681	85	1410	INCLUDED

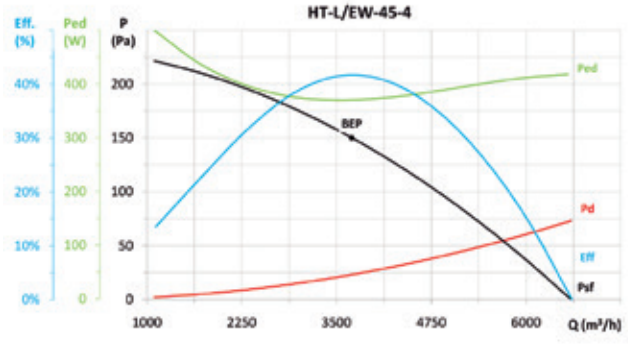
HT-L/EW-40-4



MC	EC	SR	Cc	η_e (%)*	N	[kW]	[m³/h]	[Pa]	[rpm]	VSD
A	S	1,00	1,13	47,2%	57,7	0,226	2875	118	1410	INCLUDED

*η_e (%) = Eff. (%) x Cc

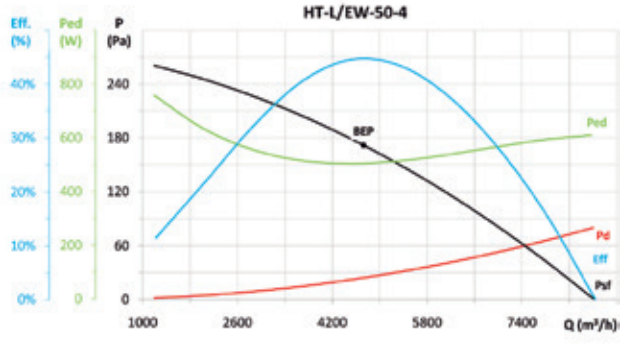
HT-L/EW-45-4



MC	EC	SR	Cc	η_e (%)*	N	[kW]	[m³/h]	[Pa]	[rpm]	VSD
A	S	1,00	1,12	46,7%	55,7	0,370	3701	150	1410	INCLUDED

*η_e (%) = Eff. (%) x Cc

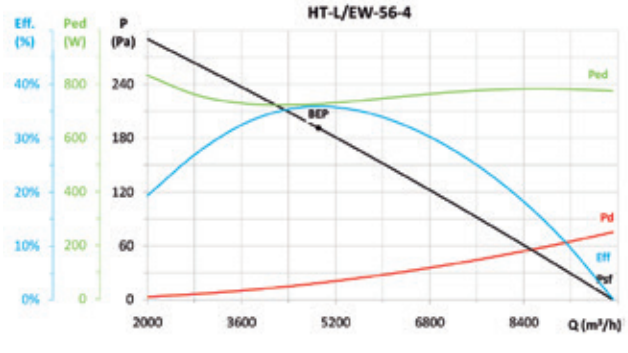
HT-L/EW-50-4



MC	EC	SR	Cc	η_e (%)*	N	[kW]	[m³/h]	[Pa]	[rpm]	VSD
A	S	1,00	1,11	49,6%	57,8	0,505	4727	172	1410	INCLUDED

*η_e (%) = Eff. (%) x Cc

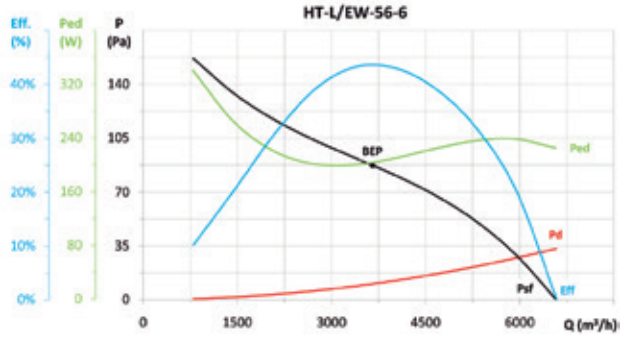
HT-L/EW-56-4



MC	EC	SR	Cc	η_e (%)*	N	[kW]	[m³/h]	[Pa]	[rpm]	VSD
A	S	1,00	1,10	39,4%	46,6	0,727	4907	192	1410	INCLUDED

*η_e (%) = Eff. (%) x Cc

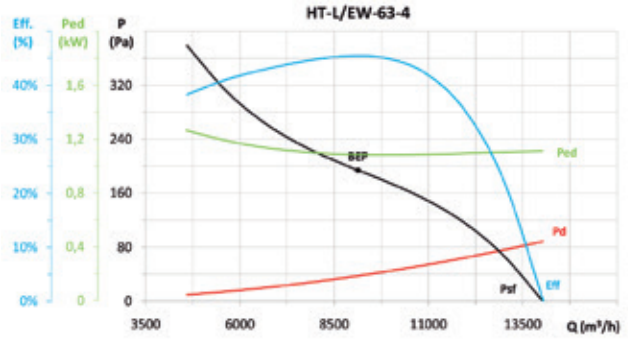
HT-L/EW-56-6



MC	EC	SR	Cc	η_e (%)*	N	[kW]	[m³/h]	[Pa]	[rpm]	VSD
A	S	1,00	1,14	49,6%	60,3	0,203	3651	87	960	INCLUDED

*η_e (%) = Eff. (%) x Cc

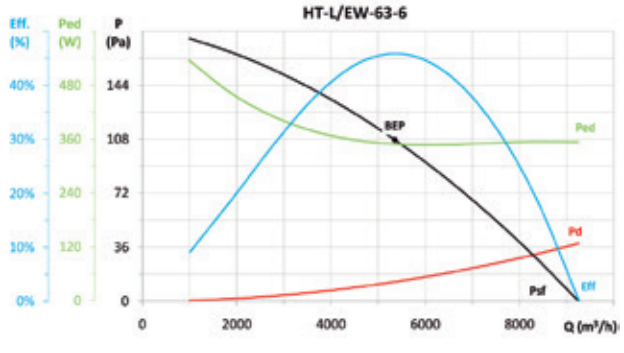
HT-L/EW-63-4



MC	EC	SR	Cc	η_e (%)*	N	[kW]	[m³/h]	[Pa]	[rpm]	VSD
C	S	1,00	1,09	49,4%	55,5	1,083	9132	194	1410	INCLUDED

*η_e (%) = Eff. (%) x Cc

HT-L/EW-63-6



MC	EC	SR	Cc	η_e (%)*	N	[kW]	[m³/h]	[Pa]	[rpm]	VSD
A	S	1,00	1,12	51,4%	60,6	0,349	5352	108	960	INCLUDED

*η_e (%) = Eff. (%) x Cc