

HT/EW



High-efficiency axial roof fans with flat base fitted with IE3 asynchronous motor adjustable electronically.



VARIABLE SPEED DRIVE
VSD: Variable Speed Drive.
: VSD1/A-RFM
: VSD3/A-RFT
Supply on request

CONTROL
Supply optional accessory

SUPPLY
VSD31A-RFT: 220-240 V 50/60 Hz
VSD3/A-RFT: 380-415 V 50/60 Hz

Fan:

- Galvanised sheet steel base plate.
- Impeller in polyamide 6 reinforced with fibreglass, except models 100 of 4 poles in aluminium.
- Bird protection guard
- Rain deflector hood in polyester, except model 71 in sheet steel with anticorrosive protection.
- Airflow direction from motor to impeller.

Motor and electronic variable speed:

- Motors with IE3 efficiency adjustable electronically.
- The variable speed drive VSD will be supplied as per order.
- Electronic variable speed drive (VSD) can be adjusted by external 0-10 V signal.
- It is advisable to install sinusoidal filters between the fan and the electronic variable speed drive (VSD) when they are far apart.
- 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).
- 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.
- Class F motors with ball bearings, IP55 protection.
- Three-phase 230/400 V. 50 Hz. (up to 5.5 CV.) and 400/690 V. 50 Hz. (power over 5.5 CV.)

On request:

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

Fan order code

HT/EW — 71 — 4T — 2 — IE3

HT/EW: Highly-efficient axial roof fans with flat base, "Efficient work"

Impeller diameter in cm.

Number of poles:
4=1410 r/min
6=960 r/min

Motor power (CV)

Three-phase motors IE3

HT/EW — 71 — 4T — 2 — IE3 — VSD1 — D

HT/EW: Highly-efficient axial roof fans with flat base, "Efficient work"

Impeller diameter in cm.

Number of poles:
4=1410 r/min
6=960 r/min

Motor power (CV)

Three-phase motor IE3

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

VSD3: Fitted with VSD3/A-RFT, 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.
Only available for fans with motor power less than or equal to 2.2 kW.

Accessories

See accessories section.





EFFICIENT WORK



Technical characteristics

Model	Speed min/max (r/min)	Single-phase VSD 230 V 50/60 Hz		Three-phase VSD 400 V 50/60 Hz		Maximum current Motor 50 Hz 400V 690V (A)			Installed power (kW)	Maximum airflow min/max (m³/h)	Sound pressure level Inlet min/max Lp dB(A)		Weight approx. (Kg)
		Maximum current input (A)	Model VSD	Maximum current input (A)	Model VSD								
HT/EW-71-4T-2	575/1440	15.78	VSD1/A-RFM-2	4.38	VSD3/A-RFT-2	5.41	3.11	-	1.50	7190 / 18000	49 / 69	47 / 67	64.0
HT/EW-71-6T-0.75	370/925	6.90	VSD1/A-RFM-1	1.92	VSD3/A-RFT-1	2.52	1.45	-	0.55	4880 / 12200	38 / 58	36 / 56	64.9
HT/EW-80-4T-3	575/1435	23.15	VSD1/A-RFM-3	6.43	VSD3/A-RFT-3	7.93	4.56	-	2.20	10500 / 26200	53 / 73	50 / 70	87.8
HT/EW-80-6T-1.5	380/945	12.43	VSD1/A-RFM-2	3.45	VSD3/A-RFT-2	4.68	2.69	-	1.10	7240 / 18000	44 / 64	41 / 61	81.8
HT/EW-90-4T-4	575/1440	-	-	7.20	VSD3/A-RFT-5.5	10.7	6.15	-	3.00	12580 / 31500	57 / 77	54 / 74	94.0
HT/EW-90-6T-2	380/950	16.64	VSD1/A-RFM-2	4.62	VSD3/A-RFT-2	6.43	3.7	-	1.50	8480 / 21200	48 / 68	45 / 65	91.0
HT/EW-100-4T-7.5	585/1465	-	-	12.81	VSD3/A-RFT-7.5	-	10.3	5.97	5.50	14775 / 37000	60 / 80	57 / 77	114.0
HT/EW-100-4T-10	585/1465	-	-	17.32	VSD3/A-RFT-10	-	13.9	8.06	7.50	17570 / 44000	64 / 84	61 / 81	125.0
HT/EW-100-6T-2	380/950	16.64	VSD1/A-RFM-2	4.62	VSD3/A-RFT-2	6.43	3.7	-	1.50	10000 / 25000	51 / 71	48 / 68	102.0
HT/EW-100-6T-3	380/950	23.83	VSD1/A-RFM-3	6.62	VSD3/A-RFT-3	9.08	5.22	-	2.20	11280 / 28200	55 / 75	52 / 72	106.0

Acoustic features at maximum speed

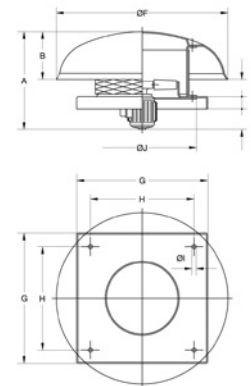
The specified values are determined according to free field measurements of pressure and sound levels in dB(A) at a distance of 6 m.

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

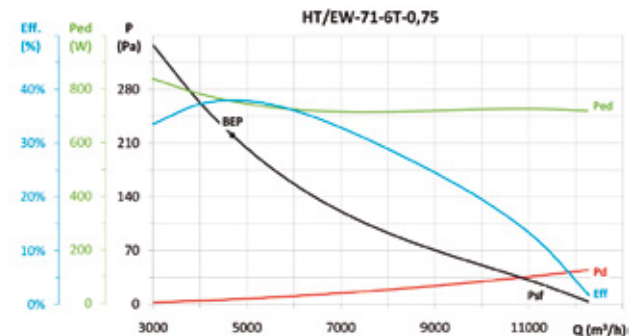
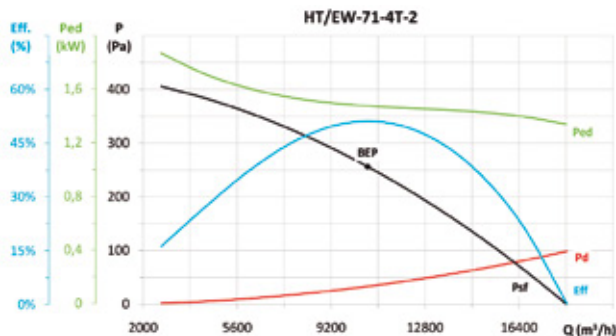
Model	Inlet								Outlet							
	63	125	250	500	1000	2000	4000	8000	63	125	250	500	1000	2000	4000	8000
HT/EW-71-4T	46	63	75	83	88	88	84	77	44	61	73	81	86	86	82	75
HT/EW-71-6T	35	52	64	72	77	77	73	66	33	50	62	70	75	75	71	64
HT/EW-80-4T	57	78	85	90	93	89	82	71	54	75	82	87	90	86	79	68
HT/EW-80-6T	48	69	76	81	84	80	73	62	45	66	73	78	81	77	70	59
HT/EW-90-4T	61	82	89	94	97	93	86	75	58	79	86	91	94	90	83	72
HT/EW-90-6T	52	73	80	85	88	84	77	66	49	70	77	82	85	81	74	63
HT/EW-100-4T-7,5	64	85	92	97	100	96	89	78	61	82	89	94	97	93	86	75
HT/EW-100-4T-10	68	89	96	101	104	100	93	82	65	86	93	98	101	97	90	79
HT/EW-100-6T-2	55	76	83	88	91	87	80	69	52	73	80	85	88	84	77	66
HT/EW-100-6T-3	59	80	87	92	95	91	84	73	56	77	84	89	92	88	81	70

Dimensions in mm

Model	A	B	C	D	E	ØF	G	H	ØI	ØJ
HT/EW-71-4T	740	357	166	40	178	1285	1000	850	14	815
HT/EW-71-6T	689	357	166	40	178	1285	1000	850	14	815
HT/EW-80-4T	840	357	244	50	189	1285	1150	1000	14	905
HT/EW-80-6T	804	357	244	50	153	1285	1150	1000	14	905
HT/EW-90-4T	892	440	213	50	189	1580	1150	1000	14	1020
HT/EW-90-6T	896	440	213	50	193	1580	1150	1000	14	1020
HT/EW-100-4T	997	440	284	50	223	1580	1250	1100	14	1120
HT/EW-100-6T-2	940	440	284	50	166	1580	1250	1100	14	1120
HT/EW-100-6T-3	957	440	284	50	183	1580	1250	1100	14	1120



Erp. Characteristic curves and ErP data

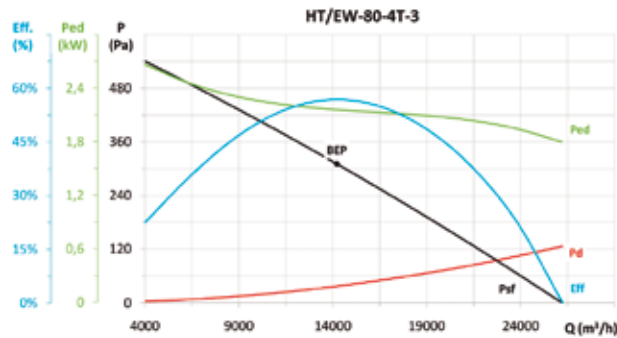


MC	EC	SR	Cc	η _e (%)*	N	[kW]	[m³/h]	[Pa]	[rpm]	VSD
C	S	1,00	1,08	55,0%	60,3	1,476	10600	256	1451	NECESSARY

*η_e (%) = EFF. (%) x Cc

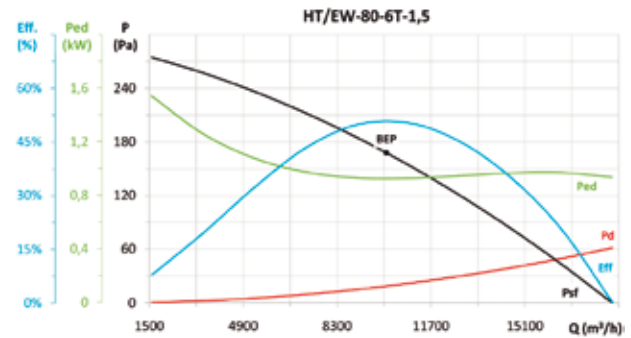
MC	EC	SR	Cc	η _e (%)*	N	[kW]	[m³/h]	[Pa]	[rpm]	VSD
C	S	1,00	1,10	41,6%	48,7	0,755	4694	220	929	NECESSARY

*η_e (%) = EFF. (%) x Cc


Erp. Characteristic curves and ErP data


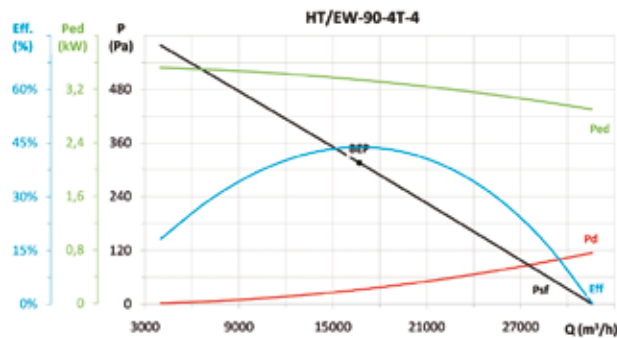
MC	EC	SR	Cc	η_b (%)*	N	[kW]	[m³/h]	[Pa]	[rpm]	VSD
C	S	1,00	1,06	60,5%	64,7	2,159	14211	311	1447	NECESSARY

* η_e (%) = Eff. (%) x Cc



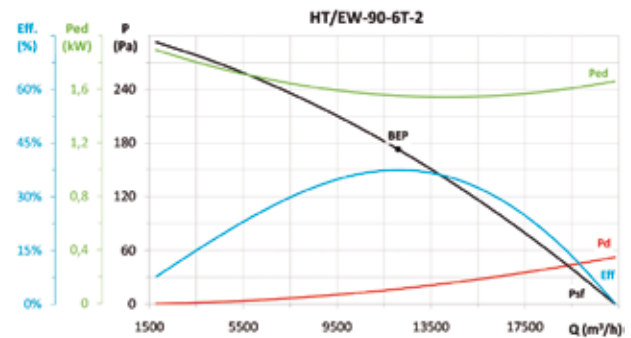
MC	EC	SR	Cc	η_b (%)*	N	[kW]	[m³/h]	[Pa]	[rpm]	VSD
C	S	1,00	1,09	55,4%	62,0	0,924	10084	168	964	NECESSARY

* η_e (%) = Eff. (%) x Cc



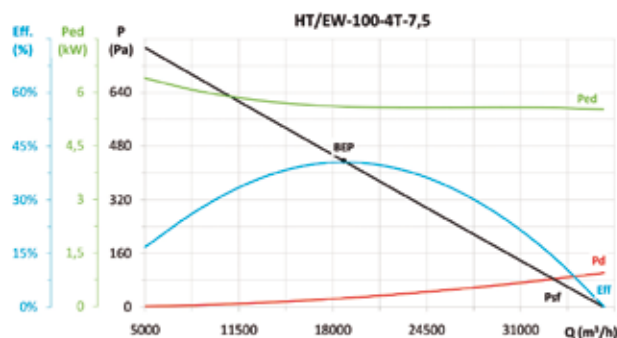
MC	EC	SR	Cc	η_b (%)*	N	[kW]	[m³/h]	[Pa]	[rpm]	VSD
C	S	1,00	1,05	46,1%	49,1	3,342	16694	316	1444	NECESSARY

* η_e (%) = Eff. (%) x Cc



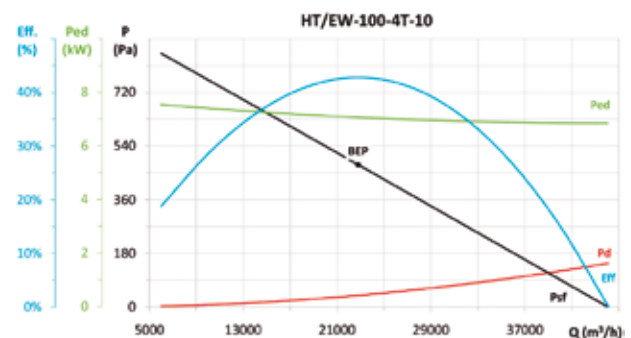
MC	EC	SR	Cc	η_b (%)*	N	[kW]	[m³/h]	[Pa]	[rpm]	VSD
C	S	1,00	1,07	40,3%	45,4	1,552	12101	173	959	NECESSARY

* η_e (%) = Eff. (%) x Cc



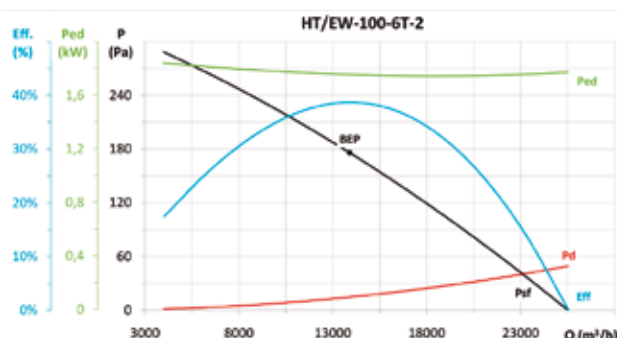
MC	EC	SR	Cc	η_b (%)*	N	[kW]	[m³/h]	[Pa]	[rpm]	VSD
C	S	1,00	1,07	41,5%	46,2	1,754	13902	176	954	NECESSARY

* η_e (%) = Eff. (%) x Cc



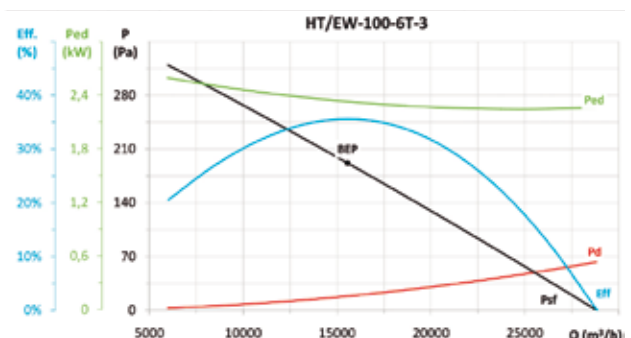
MC	EC	SR	Cc	η_b (%)*	N	[kW]	[m³/h]	[Pa]	[rpm]	VSD
C	S	1,00	1,06	37,8%	41,8	2,328	15556	192	958	NECESSARY

* η_e (%) = Eff. (%) x Cc



MC	EC	SR	Cc	η_b (%)*	N	[kW]	[m³/h]	[Pa]	[rpm]	VSD
C	S	1,00	1,06	37,8%	41,8	2,328	15556	192	958	NECESSARY

* η_e (%) = Eff. (%) x Cc



MC	EC	SR	Cc	η_b (%)*	N	[kW]	[m³/h]	[Pa]	[rpm]	VSD
C	S	1,00	1,06	37,8%	41,8	2,328	15556	192	958	NECESSARY

* η_e (%) = Eff. (%) x Cc