E.C. BRUSHLESS
E.C. INDUSTRIAL BRUSHLESS MOTOR

CHT/EW CVT/EW

CHT

CVT

VARIABLE SPEED DRIVE
VSD Electronic variable speed drive
. VSD1/B
. VSD3/B

Supply included with fan

CONTROL
Supplied as an optional accessory

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

400ºC/2h centrifugal roof-mounted extractor fans, with horizontal or vertical air outlet, fitted with an E.C. Brushless industrial motor

CHT/EW: 400ºC/2h centrifugal roof-mounted extractor fans, with horizontal air outlet and aluminium rain cap, fitted with an E.C. Brushless industrial motor
CVT/EW: 400ºC/2h centrifugal roof-mounted extractor fans, with vertical air outlet and aluminium rain cap, fitted with an E.C. Brushless industrial motor.

Fan:
- Galvanised sheet steel support base
- Turbine with reaction blades, made of galvanised sheet steel.
- Bird control grille
- Aluminium rain cap

Motor and electronic variable speed drive
- High-efficiency E.C. brushless industrial motors fitted with electronic variable speed drives (VSD), adjustable by external 0-10 V control signal. IP55 protection.
- It is advisable to install the electronic variable speed rive (VSD) outside the work area.
- The external signal can be supplied via a manual or an automatic control with an 0-10 V output.
- Electronic variable speed drive (VSD), available with single-phase 220-240 V 50/60 Hz (VSD1/B type) or three-phase 380-415 V 50/60 Hz (VSD3/B type) inputs.

Standard IP20 protection, IP66 protection on request.
- The electronic variable speed drive (VSD) is always supplied programmed at a constant speed.
- Fan operating temperature: -25ºC +60ºC
- VSD operating temperature: -25ºC +50ºC

Finish:
- Anti-corrosive galvanised sheet steel

Order code including supply of electronic variable speed drive (VSD)

CHT/EW — 200 — 4 — B — T — D

CHT/EW: 400ºC/2h roof-mounted, centrifugal, high-efficiency, "Efficient work" extractor fans with horizontal air outlet

CVT/EW: 400ºC/2h roof-mounted, centrifugal, high-efficiency, "Efficient work" extractor fans with vertical air outlet

Turbine size

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

Motor:
E.C. Brushless industrial motor

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

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

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

Technical characteristics

Model			Speed min/max	single-phase 220230 V 50/60 Hz VSD		three-phase 400 V 50/60 Hz VSD		Maximum electric power	Maximum flow rate min/max	Sound pressure level Lp dB(A)		Approx. weight
			(r/min)	Maximum input current (A)	Model VSD	Maximum input current (A)	Model VSD	(W)	(m³/h)	Aspiration min/max	Discharge min/max	(Kg)
CHT/EW	CVT/EW	200-4	300 / 1410	1.14	VSD1/B-0.37	0.34	VSD3/B-0.75	140	310 / 1450	3 / 37	9 / 43	25
CHT/EW	CVT/EW	225-4	300 / 1410	1.44	VSD1/B-0.37	0.42	VSD3/B-0.75	175	445 / 2100	7 / 41	13 / 47	25
CHT/EW	CVT/EW	225-6	300 / 960	0.93	VSD1/B-0.37	0.27	VSD3/B-0.75	110	440 / 1400	5 / 30	11 / 36	26
CHT/EW	CVT/EW	250-4	300 / 1410	2.79	VSD1/B-0.37	0.82	VSD3/B-0.75	340	660 / 3100	11 / 45	16 / 50	34
CHT/EW	CVT/EW	250-6	300 / 960	1.17	VSD1/B-0.37	0.34	VSD3/B-0.75	140	625 / 2000	8 / 33	15 / 40	35
CHT/EW	CVT/EW	315-4	300 / 1410	5.82	VSD1/B-0.75	1.37	VSD3/B-0.75	660	1055 / 4950	14 / 48	20 / 54	39
CHT/EW	CVT/EW	315-6	300 / 960	2.13	VSD1/B-0.37	0.62	VSD3/B-0.75	255	1000 / 3200	12 / 37	18 / 43	39
CHT/EW	CVT/EW	400-4	300 / 1410	7.94	VSD1/B-0.75	1.87	VSD3/B-0.75	905	1490 / 7000	21 / 55	27 / 61	57
CHT/EW	CVT/EW	400-6	300 / 960	4.28	VSD1/B-0.37	1.00	VSD3/B-0.75	480	1405 / 4500	19 / 44	25 / 50	56
CHT/EW	CVT/EW	450-4	300 / 1410	15.89	VSD1/B-1.5	3.74	VSD3/B-1.5	1825	2170 / 10200	25 / 59	30 / 64	66
CHT/EW	CVT/EW	450-6	300 / 960	5.64	VSD1/B-0.75	1.32	VSD3/B-0.75	635	2155 / 6900	22 / 47	29 / 54	59
CHT/EW	CVT/EW	500-6	300 / 960	11.51	VSD1/B-1.5	2.71	VSD3/B-1.5	1325	3750 / 12000	26 / 51	32 / 57	103

ROOF-MOUNTED EFFICIENT WORK EXTRACTOR FANS

Acoustic characteristics

The indicated values are determined by measuring the pressure and noise level in dB(A) obtained in a free field at a distance of 6 m.

Noise power spectrum Lw(A) in dB(A) per Hz frequency band

Aspiration
Values taken during aspiration with 2/3 maximum flow rate (2/3Qmax)

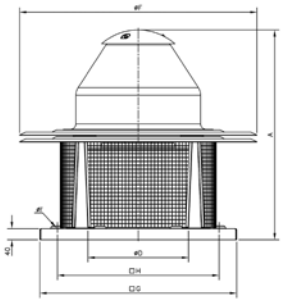
Model	63	125	250	500	1000	2000	4000	8000
200-4	35	41	52	55	56	52	50	44
225-4	42	51	56	56	60	59	52	46
225-6	31	40	45	45	49	48	41	35
250-4	46	55	60	60	64	63	56	50
250-6	34	43	48	48	52	51	44	38
315-4	50	56	62	62	65	68	59	53
315-6	39	45	51	51	54	57	48	42
400-4	62	69	74	74	78	77	70	65
400-6	46	52	58	58	61	64	55	49
450-4	62	69	74	74	78	77	70	65
450-6	50	57	62	62	66	65	58	53
500-6	54	60	65	66	70	69	62	55

Discharge
Values taken during discharge with 2/3 maximum flow rate (2/3Qmax)

Model	63	125	250	500	1000	2000	4000	8000
200-4	39	44	58	60	61	61	56	51
225-4	41	50	60	64	67	64	57	51
225-6	30	39	49	53	56	53	46	40
250-4	44	53	63	67	70	67	60	54
250-6	34	43	53	57	60	57	50	44
315-4	49	61	69	71	72	72	64	56
315-6	38	50	58	60	61	61	53	45
400-4	60	72	80	82	83	80	73	65
400-6	45	57	65	67	68	68	60	52
450-4	60	72	80	82	83	80	73	65
450-6	50	62	70	72	73	70	63	55
500-6	50	64	72	76	75	72	66	60

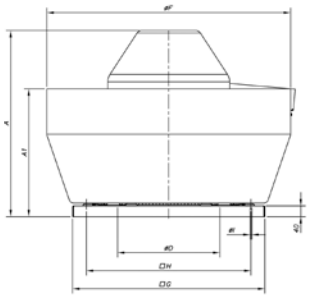
Dimensions mm

CHT/EW



CHT/EW	A	øD*	øF	G	H	øI
200	552	250	570	450	360	12
225	570	250	570	450	360	12
250	632	355	726	560	450	12
315	682	355	726	560	450	12
400	755	500	856	710	590	12
450	770	500	856	710	590	12
500	846	630	1075	900	750	14

CVT/EW



CHT/EW	A	A1	øD*	øF	G	H	øI
200	500	308	250	530	450	360	12
225	517	308	250	530	450	360	12
250	580	380	355	705	560	450	12
315	630	380	355	705	560	450	12
400	690	475	500	900	710	590	12
450	705	475	500	900	710	590	12
500	775	545	630	1100	900	750	14

Accessories

See accessories section


INT


BS
BSS


BAC


B


PA


MS

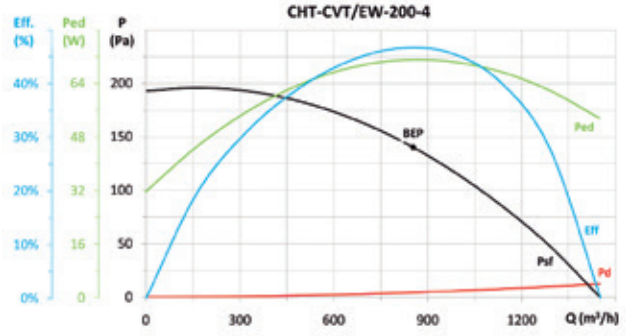

PT
PT/400


S


CONTROL UNITS
AND SENSORS

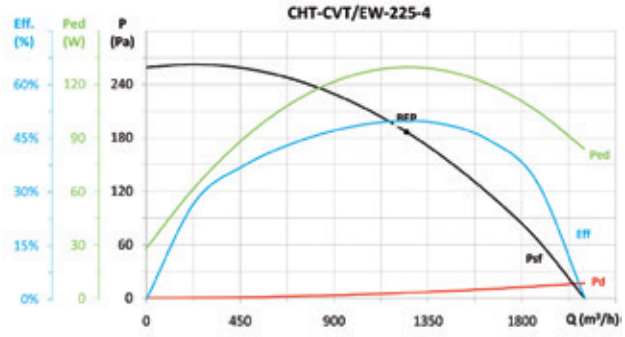
Erp. Characteristic curves and ErP data

CHT-CVT/EW-200-4



MC	EC	SR	Cc	η_e (%)*	N	[kW]	[m³/h]	[Pa]	[rpm]	VSD
C	S	-	-	-	-	0,071	853	140	1410	INCLUDED

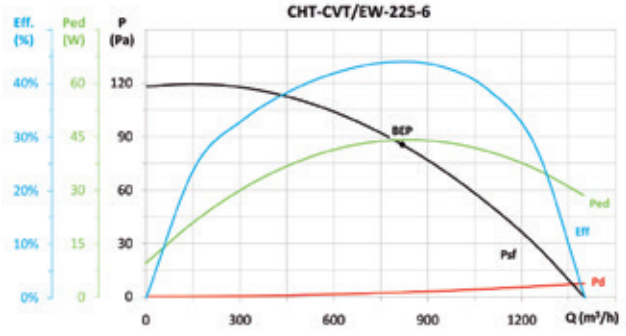
CHT-CVT/EW-225-4



MC	EC	SR	Cc	η_e (%)*	N	[kW]	[m³/h]	[Pa]	[rpm]	VSD
C	S	1,00	1,15	57,3%	77,1	0,130	1247	187	1410	INCLUDED

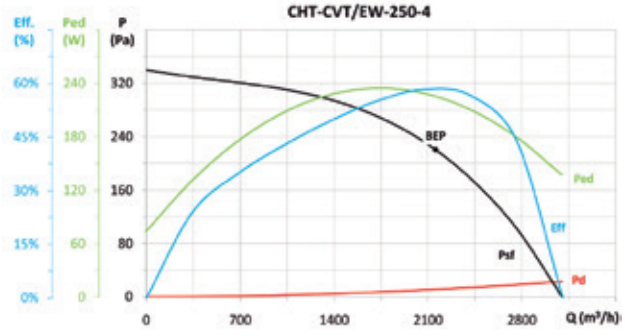
*ηe (%) = Eff. (%) x Cc

CHT-CVT/EW-225-6



MC	EC	SR	Cc	η_e (%)*	N	[kW]	[m³/h]	[Pa]	[rpm]	VSD
C	S	-	-	-	-	0,044	818	86	960	INCLUDED

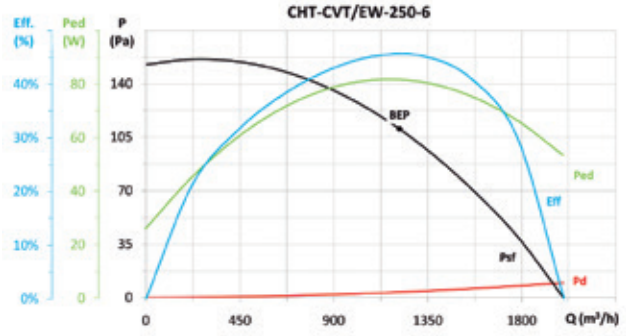
CHT-CVT/EW-250-4



MC	EC	SR	Cc	η_e (%)*	N	[kW]	[m³/h]	[Pa]	[rpm]	VSD
C	S	1,00	1,13	66,3%	83,6	0,226	2156	220	1410	INCLUDED

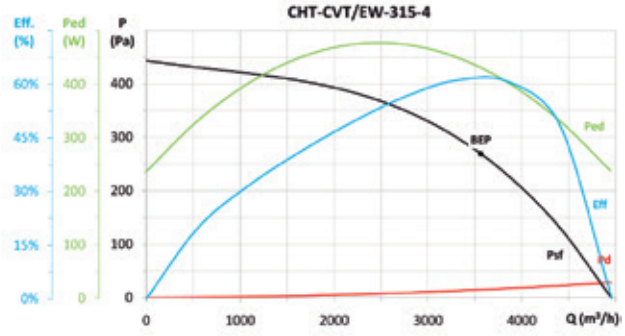
*ηe (%) = Eff. (%) x Cc

CHT-CVT/EW-250-6



MC	EC	SR	Cc	η_e (%)*	N	[kW]	[m³/h]	[Pa]	[rpm]	VSD
C	S	-	-	-	-	0,082	1214	111	960	INCLUDED

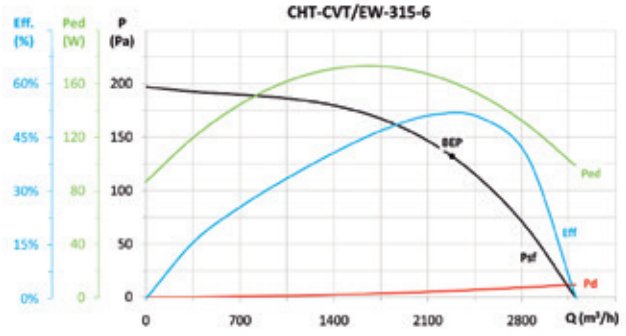
CHT-CVT/EW-315-4



MC	EC	SR	Cc	η_e (%)*	N	[kW]	[m³/h]	[Pa]	[rpm]	VSD
C	S	1,00	1,11	68,8%	83,1	0,431	3562	269	1410	INCLUDED

*ηe (%) = Eff. (%) x Cc

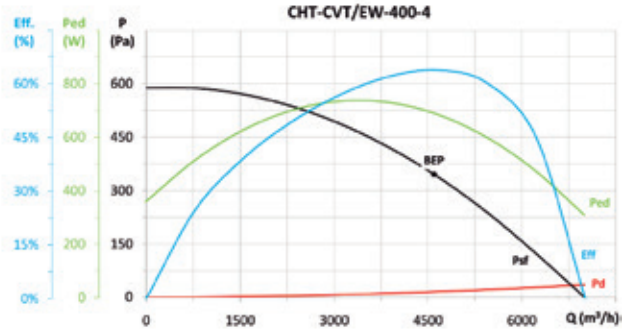
CHT-CVT/EW-315-6



MC	EC	SR	Cc	η_e (%)*	N	[kW]	[m³/h]	[Pa]	[rpm]	VSD
C	S	1,00	1,14	59,2%	78,0	0,161	2281	132	960	INCLUDED

*ηe (%) = Eff. (%) x Cc

CHT-CVT/EW-400-4

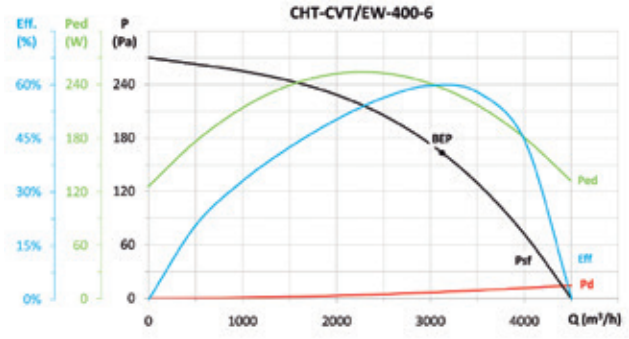


MC	EC	SR	Cc	η_e (%)*	N	[kW]	[m³/h]	[Pa]	[rpm]	VSD
C	S	1,00	1,10	70,2%	82,4	0,691	4594	345	1410	INCLUDED

*ηe (%) = Eff. (%) x Cc

Erp. Characteristic curves and ErP data

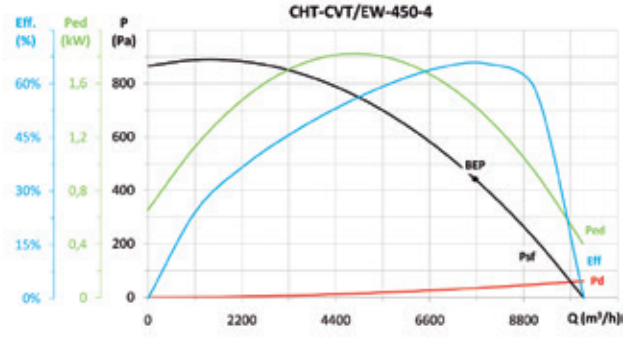
CHT-CVT/EW-400-6



MC	EC	SR	Cc	η_s (%)*	N	[kW]	[m³/h]	[Pa]	[rpm]	VSD
C	S	1,00	1,13	67,9%	84,9	0,237	3124	164	960	INCLUDED

*ηe (%) = Eff. (%) x Cc

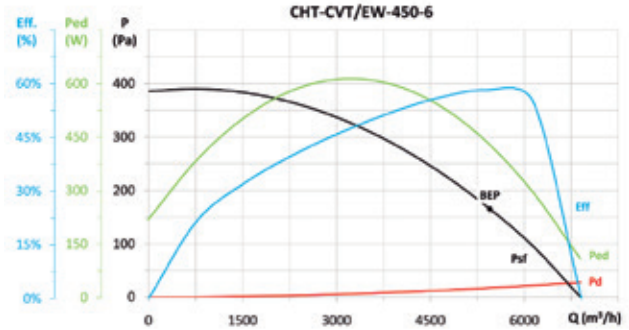
CHT-CVT/EW-450-4



MC	EC	SR	Cc	η_s (%)*	N	[kW]	[m³/h]	[Pa]	[rpm]	VSD
C	S	1,00	1,08	70,8%	79,7	1,434	7663	443	1410	INCLUDED

*ηe (%) = Eff. (%) x Cc

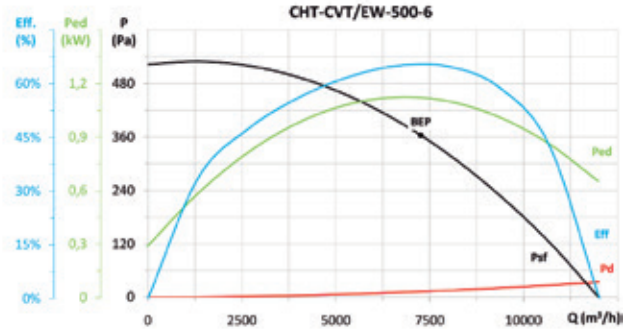
CHT-CVT/EW-450-6



MC	EC	SR	Cc	η_s (%)*	N	[kW]	[m³/h]	[Pa]	[rpm]	VSD
C	S	1,00	1,11	64,8%	79,2	0,430	5449	165	960	INCLUDED

*ηe (%) = Eff. (%) x Cc

CHT-CVT/EW-500-6



MC	EC	SR	Cc	η_s (%)*	N	[kW]	[m³/h]	[Pa]	[rpm]	VSD
C	S	1,00	1,08	71,0%	81,0	1,121	7265	364	960	INCLUDED

*ηe (%) = Eff. (%) x Cc