

CHT CVT

400°C/2h centrifugal roof-mounted extractor fans, with horizontal or vertical air outlet

CHT: 400°C/2h centrifugal roof-mounted extractor fans, with horizontal air outlet and aluminium rain cap

CVT: 400°C/2h centrifugal roof-mounted extractor fans, with vertical air outlet and aluminium rain cap

Fan:

- Galvanised sheet steel support base
- Turbine with reaction blades, made of galvanised sheet steel
- Bird control grille
- Aluminium rain cap
- Approved in accordance with standard EN 12101-3, with certificate no. 0370-CPR-0897

Motor:

- IE2 efficiency motors for powers equal to or greater than 0.75kW and lower than 7.5kW, except single-phase, 2-speed and 8-pole
- Class F motors with ball bearings and IP55 protection except single-phase models, IP54 protection and 1 or 2 speeds, depending on model
- Single-phase 230V-50Hz and three-phase 230/400V-50Hz
- Maximum temperature of air to be carried: -25°C +120°C

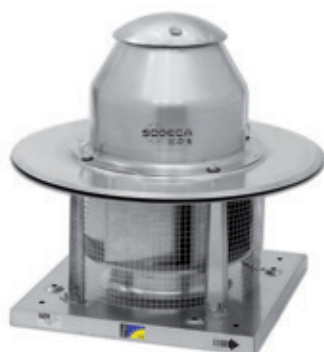
Finish:

- Corrosion-proof galvanised sheet steel and aluminium

On request:

- Special windings for different voltages
- ATEX-certified Category 3

CHT



CVT



Support for
roof-mounting



Order code

CHT — 200 — 4T — BS

CHT: 400°C/2h centrifugal roof-mounted extractor fans, with horizontal air outlet.

CVT: 400°C/2h centrifugal roof-mounted extractor fans, with vertical air outlet

Turbine size

Number of motor poles
2=2900 r/min. 50 Hz
4=1400 r/min. 50 Hz
6=900 r/min. 50 Hz
8=750 r/min. 50 Hz
12=500 r/min. 50 Hz

T=Three-phase

BS: Raised support base
BSS: Raised support base with silencer

Technical characteristics

Model	Speed (r/min)	Maximum admissible current (A)		Installed power (kW)	Maximum flow rate (m³/h)	Noise level dB(A)		Approx. weight (Kg)
		230V	400V			Aspiration	Discharge	
CHT CVT 200-4T	1350	1.66	0.96	0.25	1450	37	43	25
CHT CVT 200-4M	1380	0.65		0.25	1450	37	43	25
CHT CVT 225-4T	1350	1.66	0.96	0.25	2100	41	47	25
CHT CVT 225-4M	1380	0.95		0.25	2100	41	47	25
CHT CVT 225-6T	900	1.51	0.87	0.25	1400	30	36	26
CHT CVT 225-6M	890	0.50		0.25	1400	30	36	26
CHT CVT 250-4T	1350	1.66	0.96	0.25	3100	45	50	34
CHT CVT 250-4M	1380	1.35		0.25	3100	45	50	34
CHT CVT 250-6T	900	1.51	0.87	0.25	2000	33	40	35
CHT CVT 250-6M	890	0.65		0.25	2000	33	40	35
CHT CVT 315-4T	1380	2.92	1.69	0.55	4950	48	54	39
CHT CVT 315-4/8T	1450/720		1.70 / 0.80	0.55 / 0.19	4950 / 2475	48 / 33	54 / 39	40
CHT CVT 315-4M	1380	3.30		0.55	4950	48	54	39
CHT CVT 315-6T	900	2.24	1.30	0.37	3200	37	43	39

Technical characteristics

Model	Speed (r/min)	Maximum admissible current (A)		Installed power (kW)	Maximum flow rate (m³/h)	Noise level dB(A)		Approx. weight (Kg)
		230V	400V			Aspiration	Discharge	
CHT CVT 315-6M	910	0.95		0.37	3200	37	43	39
CHT CVT 400-4T	1410	3.10	1.79	0.75	7000	55	61	57
CHT CVT 400-4/8T	1430 / 710		2.00 / 0.90	0.75 / 0.20	7000 / 3500	55 / 40	61 / 46	58
CHT CVT 400-4M	1380	4.40		0.75	7000	55	61	57
CHT CVT 400-6T	900	2.24	1.30	0.37	4500	44	50	56
CHT CVT 400-6M	910	1.80		0.37	4500	44	50	56
CHT CVT 450-4T	1430	5.96	3.44	1.50	10200	59	64	66
CHT CVT 450-4/8T	1420 / 700		3.50 / 1.50	1.50 / 0.37	10200 / 5100	59 / 43	64 / 49	66
CHT CVT 450-6T	900	2.24	1.30	0.37	6900	47	54	59
CHT CVT 450-6/12T	930 / 450		1.60 / 0.65	0.55 / 0.09	6900 / 3450	47 / 32	54 / 39	63
CHT CVT 450-6M	910	2.00		0.37	6900	47	54	59
CHT CVT 500-6T	945	4.88	2.82	1.10	12000	51	57	103
CHT CVT 500-6/12T	950 / 470		3.00 / 1.15	1.10 / 0.18	12000 / 6000	51 / 36	57 / 42	110
CHT CVT 500-8T	695	3.53	2.04	0.55	8900	44	50	103
CHT CVT 560-6T	955	9.30	5.30	2.20	17300	54	61	126
CHT CVT 560-6/12T	940 / 470		5.60 / 2.20	2.20 / 0.37	17300 / 8650	54 / 39	61 / 46	120
CHT CVT 560-8T	705	5.63	3.25	1.10	12900	46	53	110
CHT CVT 630-6T	960	16.50	9.46	4.00	24700	58	64	166
CHT CVT 630-6/12T	970 / 480		11.00 / 4.00	4.00 / 0.65	24700 / 12350	58 / 43	64 / 49	161
CHT CVT 630-8T	705	7.10	4.10	1.50	18400	50	57	148

(1) The noise level values are pressures in dB(A) measured at a distance of 5 metres and at 2/3 of the maximum flow rate (2/3Q_{max})



Erp. Best efficiency point (BEP) characteristics

MC	Measurement category	VSD	Variable speed drive	[m³/h]	Flow rate
EC	Efficiency category	SR	Specific ratio	[mmH ₂ O]	Static or total pressure
	S Static	ηe[%]	Efficiency		(based on EC)
	T Total	N	Efficiency grade	[RPM]	Speed
		[kW]	Electric power		

Model	MC	EC	VSD	SR	ηe[%]	N	[kW]	[m³/h]	[mmH ₂ O]	[RPM]
200-4T	-	-	-	-	-	-	0.099	855	17.36	1462
200-4M	-	-	-	-	-	-	0.114	888	18.71	1467
225-4T	C	S	NO	1.00	41.2%	59.9	0.169	1205	21.26	1430
225-4M	C	S	NO	1.00	42.0%	60.1	0.189	1257	23.15	1442
225-6T	-	-	-	-	-	-	0.054	826	10.00	981
225-6M	-	-	-	-	-	-	0.068	875	11.21	986
250-4T	C	S	NO	1.00	45.0%	61.1	0.292	1788	26.99	1359
250-4M	C	S	NO	1.00	43.5%	59.3	0.315	1813	27.75	1377
250-6T	-	-	-	-	-	-	0.106	1262	13.44	959
250-6M	C	S	NO	1.00	40.6%	60.1	0.138	1344	15.26	971
315-4T	C	S	NO	1.00	50.4%	63.3	0.588	2652	41.02	1381
315-4/8T	C	S	NO	1.00	50.2%	62.4	0.690	2794	45.50	1454
315-4M	C	S	NO	1.00	48.1%	60.6	0.653	2705	42.67	1408
315-6T	C	S	NO	1.00	43.4%	61.4	0.192	1689	18.09	956
315-6M	C	S	NO	1.00	45.5%	62.9	0.219	1792	20.35	963
400-4T	C	S	NO	1.00	60.8%	72.4	0.788	4472	39.34	1411
400-4/8T	C	S	NO	1.00	52.3%	63.0	0.956	4536	40.48	1432
400-4M	C	S	NO	1.00	48.3%	59.1	0.942	4343	38.48	1419
400-6T	C	S	NO	1.00	48.9%	64.6	0.319	3148	18.20	926
400-6M	C	S	NO	1.00	51.3%	66.4	0.363	3338	20.46	933
450-4T	C	S	NO	1.01	60.6%	67.9	2.018	7176	62.55	1440
450-4/8T	C	S	NO	1.01	53.3%	60.1	2.254	7133	61.81	1431
450-6T	C	S	NO	1.00	54.1%	66.5	0.667	4779	27.75	959
450-6/12T	C	S	NO	1.00	49.0%	60.7	0.767	4844	28.51	948
450-6M	C	S	NO	1.00	47.6%	59.1	0.796	4854	28.63	925
500-6T	C	S	NO	1.00	62.9%	72.5	1.238	6832	41.88	923
500-6/12T	C	S	NO	1.00	61.7%	70.8	1.372	7023	44.25	957
500-8T	C	S	NO	1.00	47.1%	59.4	0.674	5027	23.21	695
560-6T	C	S	NO	1.01	59.4%	66.1	2.282	9457	52.64	956
560-6/12T	C	S	NO	1.01	53.4%	59.9	2.422	9313	51.05	942
560-8T	C	S	NO	1.00	53.0%	63.2	1.060	7052	29.27	713
630-6T	C	S	NO	1.01	63.0%	67.3	3.879	14310	62.66	968
630-6/12T	C	S	NO	1.01	58.3%	62.2	4.250	14377	63.25	973
630-8T	C	S	NO	1.00	58.0%	66.3	1.629	10429	33.28	706

Data on the best efficiency point of the turbine motor unit

Acoustic characteristics

The indicated values are determined by measuring the pressure and noise level 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.

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

Model	63	125	250	500	1000	2000	4000	8000
200	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
315-8	35	41	47	47	50	53	44	38
400-4	57	63	69	69	72	75	66	60
400-6	46	52	58	58	61	64	55	49
400-8	42	48	54	54	57	60	51	45
450-4	62	69	74	74	78	77	70	65
450-6	50	57	62	62	66	65	58	53
450-8	46	53	58	58	62	61	54	49
450-12	35	42	47	47	51	50	43	38
500-6	54	60	65	66	70	69	62	55
500-8	47	53	58	59	63	62	55	48
500-12	39	45	50	51	55	54	47	40
560-6	57	63	68	69	73	72	65	58
560-8	49	55	60	61	65	64	57	50
560-12	42	48	53	54	58	57	50	43
630-6	61	67	72	73	77	76	69	62
630-8	53	59	64	65	69	68	61	54
630-12	46	52	57	58	62	61	54	47

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

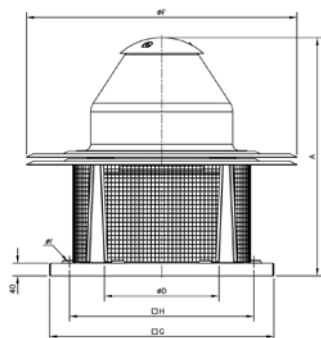
Model	63	125	250	500	1000	2000	4000	8000
200	39	44	58	60	61	61	56	51
225-4	41	50	60	64	67	64	57	51
225-6	30	39	49	53	56	53	46	40
250-4	44	53	63	67	70	67	60	54
250-6	34	43	53	57	60	57	50	44
315-4	49	61	69	71	72	72	64	56
315-6	38	50	58	60	61	61	53	45
315-8	34	46	54	56	57	57	49	41
400-4	56	68	76	78	79	79	71	63
400-6	45	57	65	67	68	68	60	52
400-8	41	53	61	63	64	64	56	48
450-4	60	72	80	82	83	80	73	65
450-6	50	62	70	72	73	70	63	55
450-8	45	57	65	67	68	65	58	50
450-12	35	47	55	57	58	55	48	40
500-6	50	64	72	76	75	72	66	60
500-8	43	57	65	69	68	65	59	53
500-12	35	49	57	61	60	57	51	45
560-6	54	68	76	80	79	76	70	64
560-8	46	60	68	72	71	68	62	56
560-12	39	53	61	65	64	61	55	49
630-6	57	71	79	83	72	79	73	67
630-8	50	64	72	76	72	72	66	60
630-12	42	56	64	68	67	64	58	52

To obtain the Lwa noise power spectra in dB(A) in aspiration at maximum flow rate (Qmax), add the values set out in the following chart to the LpA sound pressure level given in the characteristic curves:

Frequency band (Hz)							
63	125	250	500	1000	2000	4000	8000
2	9	15	15	18	18	11	5

Dimensions mm

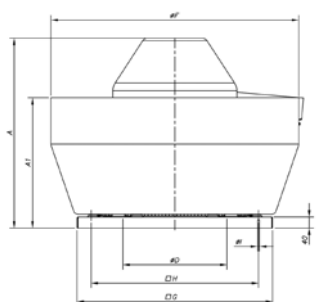
CHT



Model	A	øD*	øF	G	H	øI
CHT-200	552	250	570	450	360	12
CHT-225	570	250	570	450	360	12
CHT-250	632	355	726	560	450	12
CHT-315	682	355	726	560	450	12
CHT-400	755	500	856	710	590	12
CHT-450	770	500	856	710	590	12
CHT-500	846	630	1075	900	750	14
CHT-560	1035	710	1300	1100	900	14
CHT-630	1098	710	1300	1100	900	14

(*) Recommended pipe nominal diameter

CVT



Model	A	A1	øD*	øF	G	H	øI
CVT-200	500	308	250	530	450	360	12
CVT-225	517	308	250	530	450	360	12
CVT-250	580	380	355	705	560	450	12
CVT-315	630	380	355	705	560	450	12
CVT-400	690	475	500	900	710	590	12
CVT-450	705	475	500	900	710	590	12
CVT-500	775	545	630	1100	900	750	14
CVT-560	956	676	710	1295	1100	900	14
CVT-630	1017	676	710	1295	1100	900	14

(*) Recommended pipe nominal diameter

Accessories

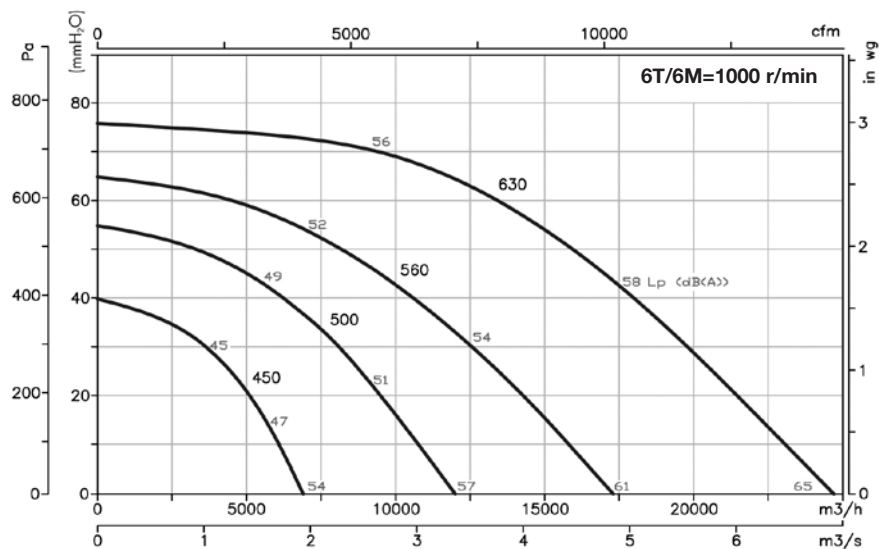
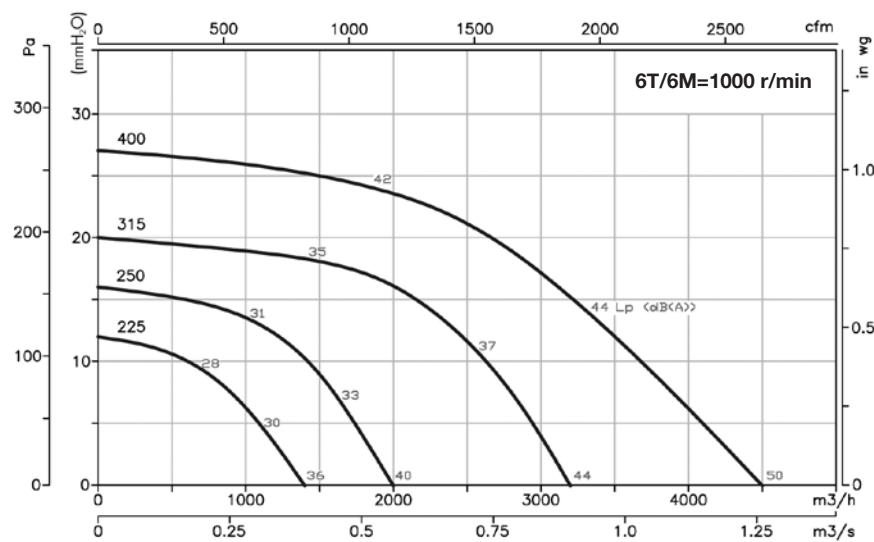
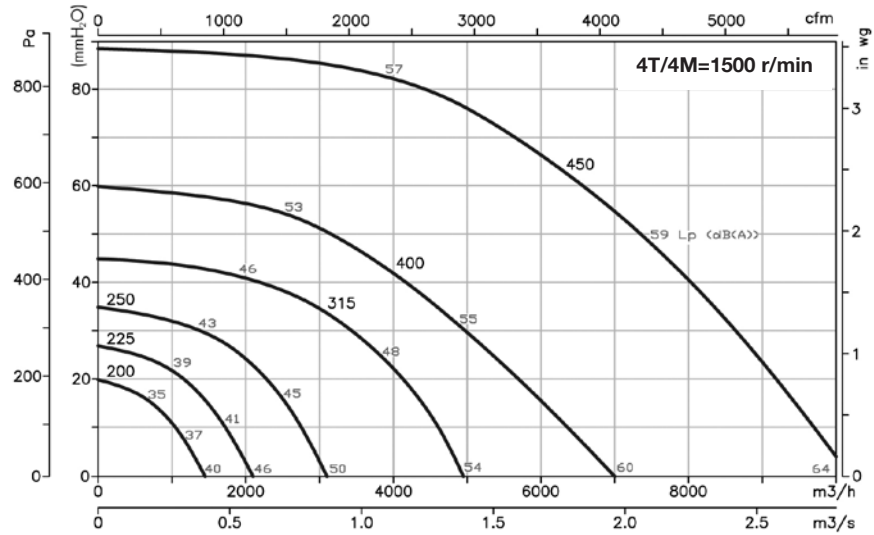


Characteristic curves

Q= Flow rate in m³/h, m³/s and cfm.

Pe= Static pressure in mmH₂O, Pa and inwg.

The Lp noise levels (dB(A)) indicated in the curves are pressures measured in a free field during aspiration, at 6 metres.

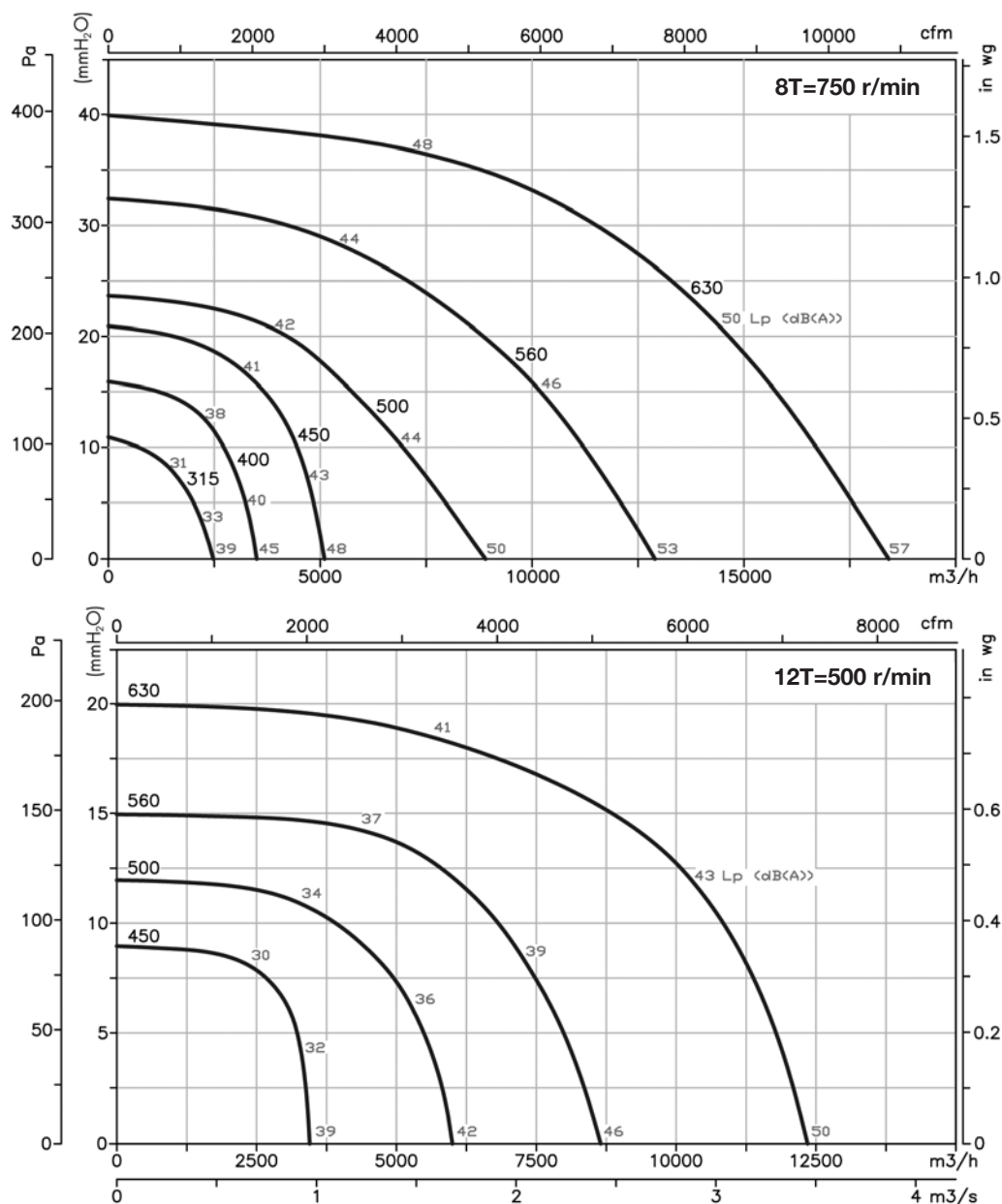


Characteristic curves

Q= Flow rate in m³/h, m³/s and cfm.

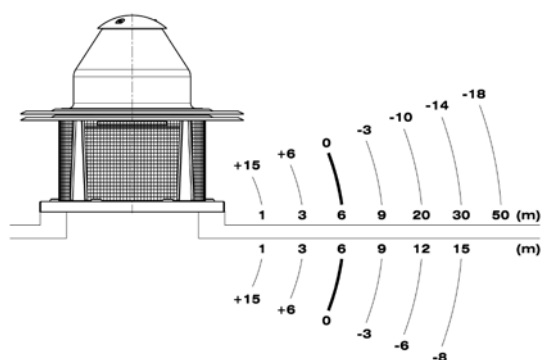
Pe= Static pressure in mmH₂O, Pa and inwg.

The Lp noise levels (dB(A)) indicated in the curves are pressures measured in a free field during aspiration, at 6 metres.



Sound pressure variation depending on distance

The noise level may vary depending on the roof or tile structure.



Example of application

Extractor fans suitable for use in industrial kitchens

For the correct application of standard:

- C.T.E. Código Técnico de la Edificación (Technical Building Code). Basic Document SI on fire safety. Basic Document HS on health and safety.

