

CHT/ATEX CVT/ATEX

**Centrifugal roof fans with
horizontal or vertical air outlet
with ATEX certification and
possible Ex e, Ex d, Ex tc and
Ex tb marked**



CHT



CVT

CHT: Centrifugal roof fans with horizontal air outlet and hood in aluminium, ATEX certification CEE ExII2G Ex e explosion-proof and CEE ExII2G Ex d, Ex tc or Ex tb flame-resistant to work in explosive atmospheres of gas or dust.

CVT: Centrifugal roof fans with vertical air outlet and hood in aluminium, ATEX certification CEE ExII2G Ex e explosion-proof and CEE ExII2G Ex d, Ex tc or Ex tb flame-resistant to work in explosive atmospheres of gas or dust.

Fan:

- ATEX base support with copper inlets made of brass according to standard EN-14986:2007.
- Impeller with backward-curved blades
- Bird guard
- Aluminium rain deflector hood

Motor:

- Class F motors with ball bearings and ATEX certification, Ex e explosion-proof and Ex d, Ex tc, or Ex tb flame-resistant
- Three phase, 50Hz, 230/400V motors up to and including 4kW. 400/690V over 4kW
- Max. air temperature to transport: -20°C+ 80°C

Finish:

- Anticorrosive galvanised sheet steel and aluminium

On request:

- Built-in motors with PTC
- Special windings for different electrical supplies and frequencies
- ATEX construction for different categories
- Fans with two-speed motor.
- Ex d flame-resistant single-phase motors



Ex “e” marked: II 2G Ex e

Ex “d” marked: $\text{C}\epsilon\text{Ex}$ || 2G Ex d

Ex tc marked: $\text{C} \in \text{Ex}$ II 3D Ex tc

Ex tb marked: C € II 2D Ex tb

Notified authority: L.O.M

Identification No: LOM3ATEX147

Order code

CHT: Centrifugal roof fans with horizontal air outlet, ATEX certified.

Impeller size

Number of
motor pole
4=1400 r/min. 50 Hz
6=900 r/min. 50 Hz

T=Three-phase

Ex-e: marked:
 $\mathbb{C} \in \boxed{\text{Ex}} \parallel 2G \text{ Ex e IIB T3}$
 Ex “n” marked:
 $\mathbb{C} \in \boxed{\text{Ex}} \parallel 2G \text{ Ex d IIB T5}$
 Ex tc marked:
 $\mathbb{C} \in \boxed{\text{Ex}} \parallel 3D \text{ Ex tc}$
 Ex tb marked:
 $\mathbb{C} \in \boxed{\text{Ex}} \parallel 2D \text{ Ex tb}$

Marked:

(€) **Ex** II 2G c
 (€) **Ex** II 2D c
 (€) **Ex** II 3D c

Technical characteristics

Model		Speed		Maximum current admissible (A)		Installed power	Maximum airflow	Sound level dB(A)		Approx. weight
		(r/min)		230V	400V	(kW)	(m³/h)	Inlet	Outlet	(Kg)
CHT/ATEX	CVT/ATEX	200-4T	1370	2.08	1.20	0.25	1450	37	43	25
CHT/ATEX	CVT/ATEX	225-4T	1370	2.08	1.20	0.25	2100	41	47	25
CHT/ATEX	CVT/ATEX	225-6T	910	2.42	1.40	0.25	1400	30	36	26
CHT/ATEX	CVT/ATEX	250-4T	1370	2.08	1.20	0.25	3100	45	50	34
CHT/ATEX	CVT/ATEX	250-6T	910	2.42	1.40	0.25	2000	33	40	35
CHT/ATEX	CVT/ATEX	315-4T	1410	2.94	1.70	0.55	4950	48	54	39
CHT/ATEX	CVT/ATEX	315-6T	935	2.77	1.60	0.37	3200	37	43	39
CHT/ATEX	CVT/ATEX	400-4T	1410	3.81	2.20	0.75	7000	55	61	57
CHT/ATEX	CVT/ATEX	400-6T	935	2.77	1.60	0.37	4500	44	50	56
CHT/ATEX	CVT/ATEX	450-4T	1400	6.93	4.00	1.50	10200	59	64	66
CHT/ATEX	CVT/ATEX	450-6T	935	2.77	1.60	0.37	6900	47	54	59
CHT/ATEX	CVT/ATEX	500-6T	910	5.89	3.40	1.10	12000	51	57	103
CHT/ATEX	CVT/ATEX	560-6T	940	9.35	5.40	2.20	17300	54	61	126
CHT/ATEX	CVT/ATEX	630-6T	950	18.88	10.90	4.00	24700	58	64	166

(1) The sound level values are measurements of pressure in dB(A) at a distance of 6 m and at 2/3 of the maximum airflow (2/3 Q_{max}.)

Acoustic features

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 $L_w(A)$ spectrum in dB(A) via frequency band in Hz.

Values taken at the inlet with 2/3 of the maximum airflow (2/3 Q_{max}).

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 at outlet with 2/3 of the maximum airflow (2/3 Q_{max}).

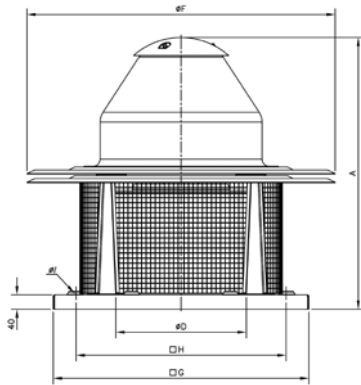
Model	63	125	250	500	1000	2000	4000	8000
200	39	44	58	60	61	61	56	51
225-4	41	50	60	64	67	64	57	51
225-6	30	39	49	53	56	53	46	40
250-4	44	53	63	67	70	67	60	54
250-6	34	43	53	57	60	57	50	44
315-4	49	61	69	71	72	72	64	56
315-6	38	50	58	60	61	61	53	45
315-8	34	46	54	56	57	57	49	41
400-4	56	68	76	78	79	79	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 L_{wa} sound power spectra in dB(A) at the inlet with the maximum airflow (Q_{max}), add the values in the following tables to the L_pA sound pressure level given on the characteristic curves:

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

Dimensions in mm

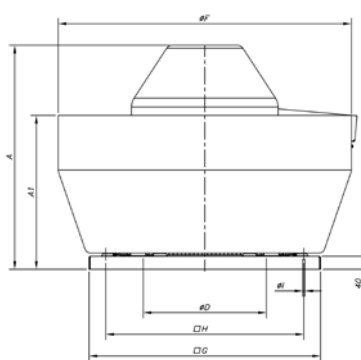
CHT



Model	A	øD*	øF	G	H	øl
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 nominal diameter for duct.

CVT



Model	A	A1	øD*	øF	G	H	øl
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

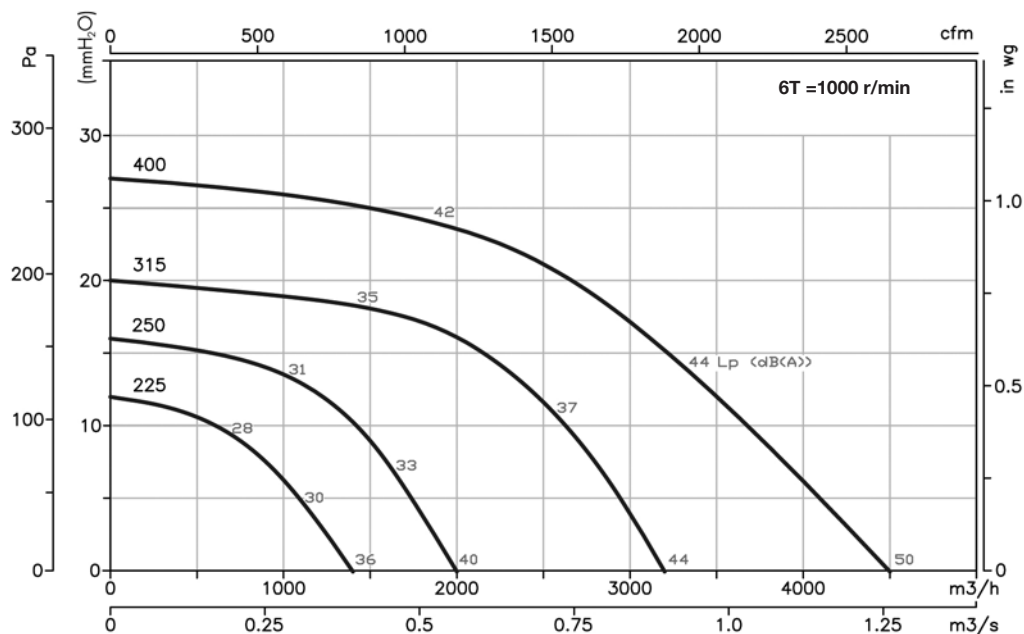
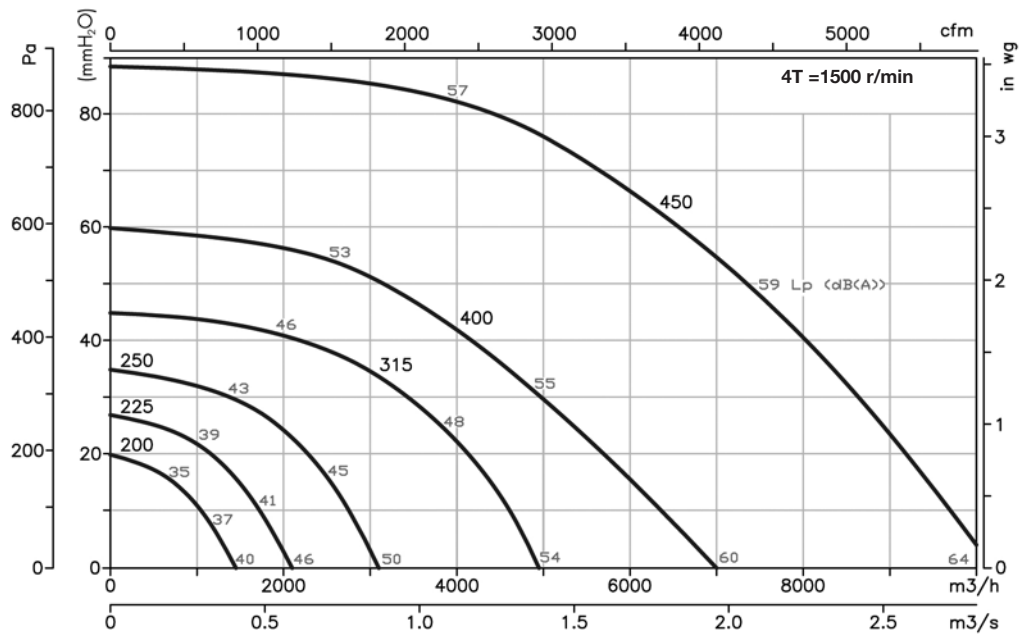
(*) Recommended nominal diameter for duct.

Characteristic curves

Q = Airflow in m³/h, m³/s and cfm.

Pe = Static pressure in mmH₂O, Pa and inwg.

The Lp (dB(A)) sound levels given on the curves are free field pressure measurements at 6 metres at the inlet.

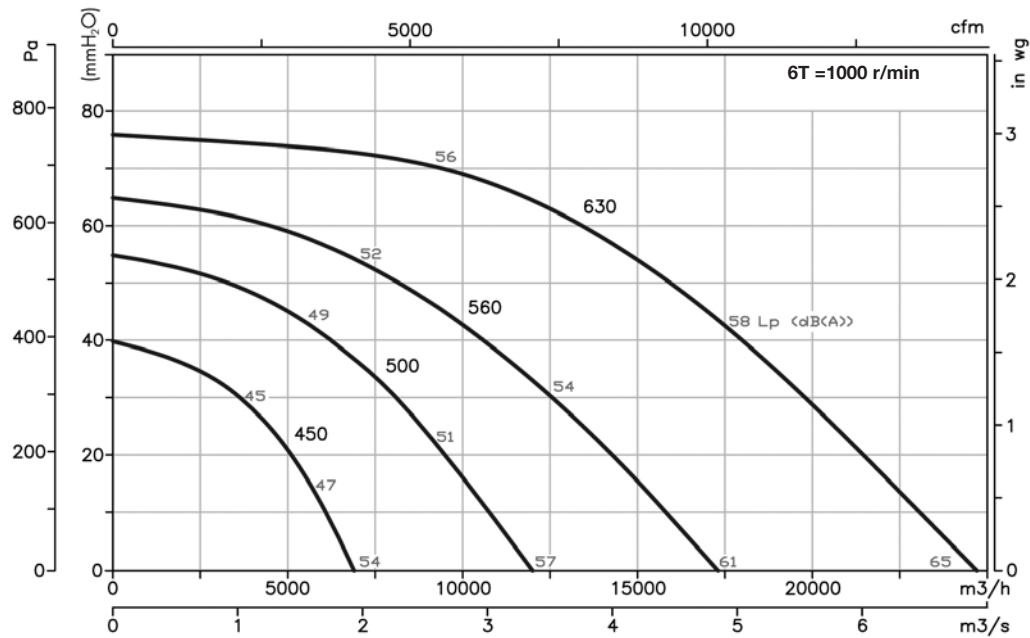


Characteristic curves

Q = Airflow in m³/h, m³/s and cfm.

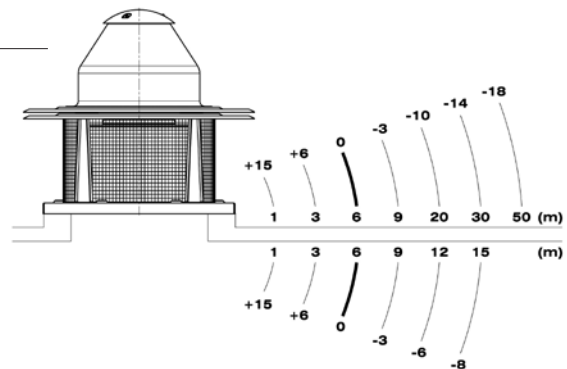
Pe = Static pressure in mmH₂O, Pa and inwg.

The Lp (dB(A)) sound levels given on the curves are free field pressure measurements at 6 metres at the inlet.



Variation of sound pressure depending on distance

The sound level may vary depending on the roof structure.



Accessories

See accessories section.

