

# CHRE

## Centrifugal roof extractors

### Construction Characteristics

- Cowl for protection against rain in sheet steel with anti-corrosive protection.
- Cold laminated steel base-plate.
- Backward-curved centrifugal turbine. Dynamically balanced and low sound level.
- Protection guard against birds, meeting standard DIN-24167.
- Asynchronous motor with exterior rotor:
  - Three-phase 230/400V 50Hz and single-phase 230V 50Hz
  - IP 54 protection and Class F insulation
- Working temperature range: -25°C +50°C
- Corrosion-proof finish in polyester resin, polymerised at 180°C, after degreasing, phosphating and passivation pre-treatment.

**NEW**  
Low sound level



CHRE

### Technical characteristics

Model	Velocity (r/min)	Max. admissible current (A)		Installed power (kW)	Max. airflow (m <sup>3</sup> /h)	Sound level <sup>(1)</sup> pressure at 2/3 of Q <sub>max</sub> .		Approx. weight Kg.
		230V	400V			Aspiration dB(A)	Discharge	
CHRE-722-4T	1360	0,31	0,18	0,02	650	31	37	7,6
CHRE-722-4M	1360	0,25		0,02	650	31	37	7,6
CHRE-825-4T	1360	0,52	0,30	0,03	950	32	38	9,1
CHRE-825-4M	1360	0,34		0,03	950	32	38	9,1
CHRE-1131-4T	1330	0,78	0,45	0,08	2000	39	45	14,1
CHRE-1131-4M	1330	0,70		0,08	2000	39	45	14,1
CHRE-1131-6T	910	0,43	0,25	0,03	1280	28	34	13,6
CHRE-1131-6M	910	0,35		0,03	1280	28	34	13,6
CHRE-1135-4T	1280	0,95	0,55	0,10	2500	43	48	19,1
CHRE-1135-4M	1280	0,85		0,10	2500	43	48	19,1
CHRE-1135-6T	880	0,52	0,30	0,04	1800	31	38	18,1
CHRE-1135-6M	880	0,50		0,04	1800	31	38	18,1
CHRE-1240-4T	1330	1,49	0,86	0,30	4000	46	52	24,8
CHRE-1240-4M	1330	2,10		0,30	4000	46	52	26,3
CHRE-1240-6T	860	0,61	0,35	0,06	2400	35	41	22,3
CHRE-1240-6M	860	0,70		0,06	2400	35	41	22,8
CHRE-1445-4T	1345	2,17	1,25	0,45	5400	53	59	36,0
CHRE-1445-4M	1345	2,80		0,45	5400	53	59	38,0
CHRE-1445-6T	920	1,13	0,65	0,15	3700	42	48	34,5
CHRE-1445-6M	920	1,10		0,15	3700	42	48	36,0
CHRE-1650-4T	1380	3,29	1,90	0,80	7600	57	62	40,5
CHRE-1650-4M	1380	5,80		0,80	7600	57	62	48,5
CHRE-1650-6T	900	1,40	0,81	0,27	5200	45	52	38,0
CHRE-1650-6M	900	3,00		0,27	5200	45	52	40,0

<sup>(1)</sup> The sound level values are pressures in dB(A), measured at 6 metres and at 2/3 of maximum airflow (2/3 Q<sub>max</sub>)



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## Acoustic characteristics

The values indicated are calculated according to free-field sound output and pressure levels in dB (A) at a distance of 6 metres.

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

Aspiration values taken with 2/3 of maximum airflow (2/3 Qmax).

Model	63	125	250	500	1000	2000	4000	8000
722	29	35	46	49	50	46	44	38
825	30	36	47	50	51	47	45	39
1131-4	40	49	54	54	58	57	50	44
1131-6	29	38	43	43	47	46	39	33
1135-4	44	53	58	58	62	61	54	48
1135-6	32	41	46	46	50	49	42	36
1240-4	48	54	60	60	63	66	57	51
1240-6	37	43	49	49	52	55	46	40
1445-4	55	61	67	67	70	73	64	58
1445-6	44	50	56	56	59	62	53	47
1650-4	60	67	72	72	76	75	68	63
1650-6	48	55	60	60	64	63	56	51

Discharge values taken with 2/3 of maximum airflow (2/3 Qmax).

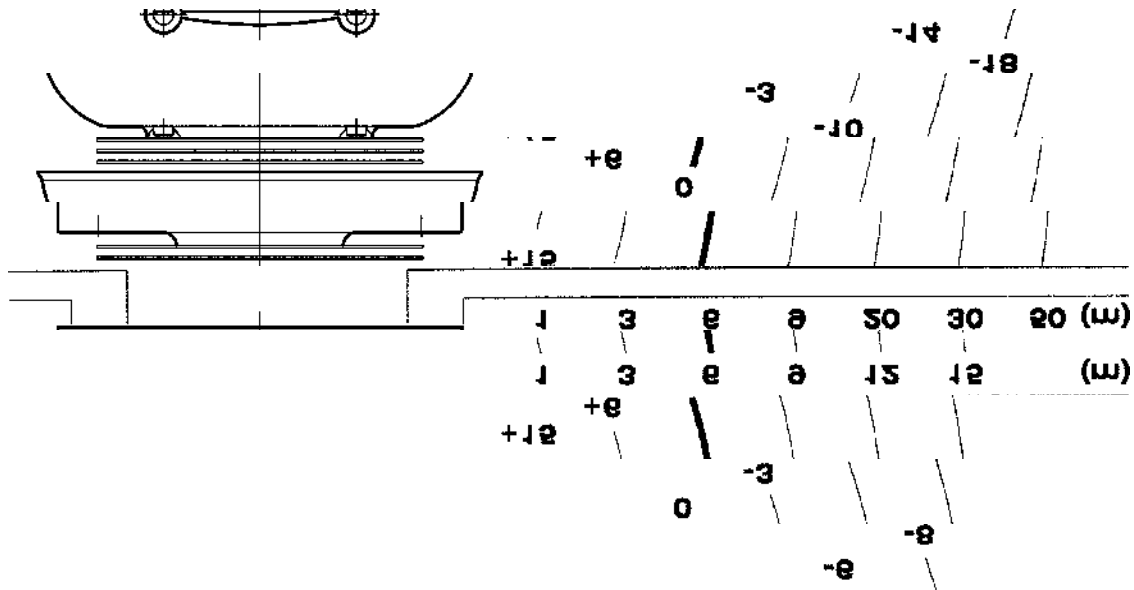
Model	63	125	250	500	1000	2000	4000	8000
722	33	38	52	54	55	55	50	45
825	34	39	53	55	56	56	51	46
1131-4	39	48	58	62	65	62	55	49
1131-6	28	37	47	51	54	51	44	38
1135-4	42	51	61	65	68	65	58	52
1135-6	32	41	51	55	58	55	48	42
1240-4	47	59	67	69	70	70	62	54
1240-6	36	48	56	58	59	59	51	43
1445-4	54	66	74	76	77	77	69	61
1445-6	43	55	63	65	66	66	58	50
1650-4	58	70	78	80	81	78	71	63
1650-6	48	60	68	70	71	68	61	53

To obtain sound power spectrum Lwa in dB(A) in aspiration at maximum airflow (Qmax), add the values from the following table to the LpA sound pressure level given in the characteristics curves:

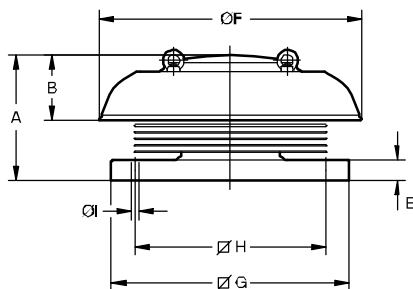
Frequency band in Hz.							
63	125	250	500	1000	2000	4000	8000
2	9	15	15	18	18	11	5

## Variation of sound pressure according to distance:

The sound level can vary depending on the roof structure.



## Dimensions



Model	A	B	E	ØF	ØG	ØH	ØI
CHRE-722	194	110	30	440	355	295	12
CHRE-825	212	110	35	440	400	320	12
CHRE-1131	308	176	40	620	450	360	12
CHRE-1135	325	176	40	620	560	450	12
CHRE-1240	351	176	40	620	560	450	12
CHRE-1445	393	228	40	770	710	590	12
CHRE-1650	426	228	40	770	710	590	12

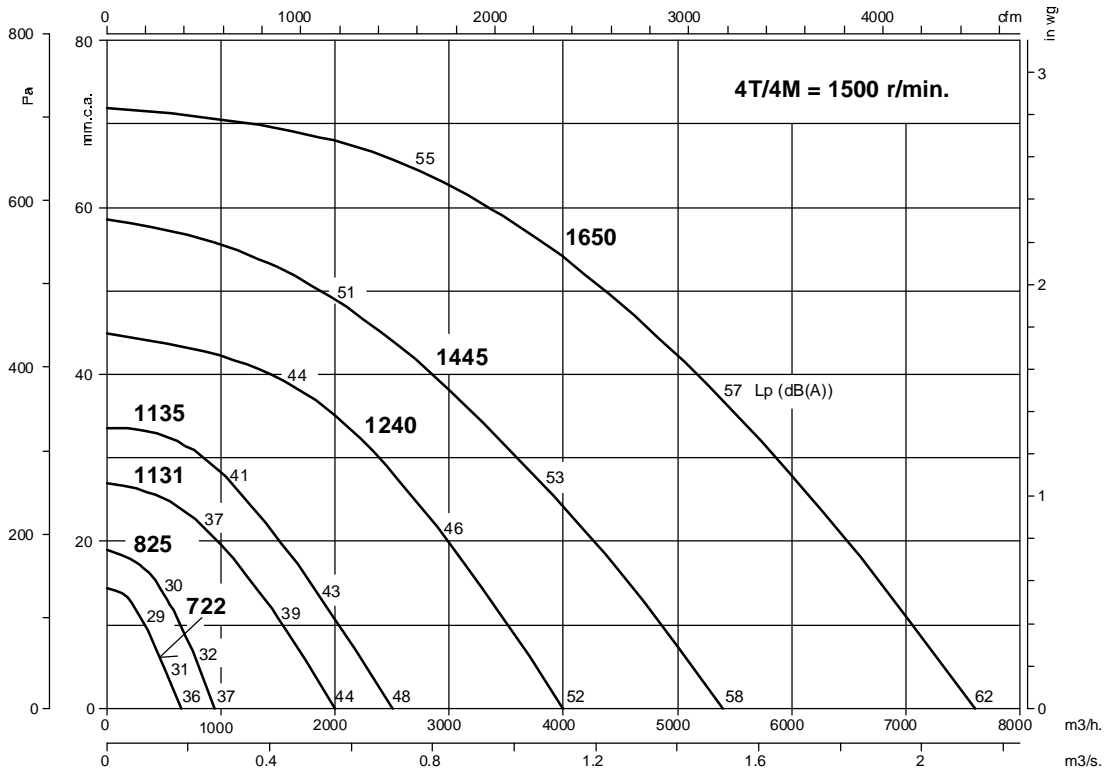




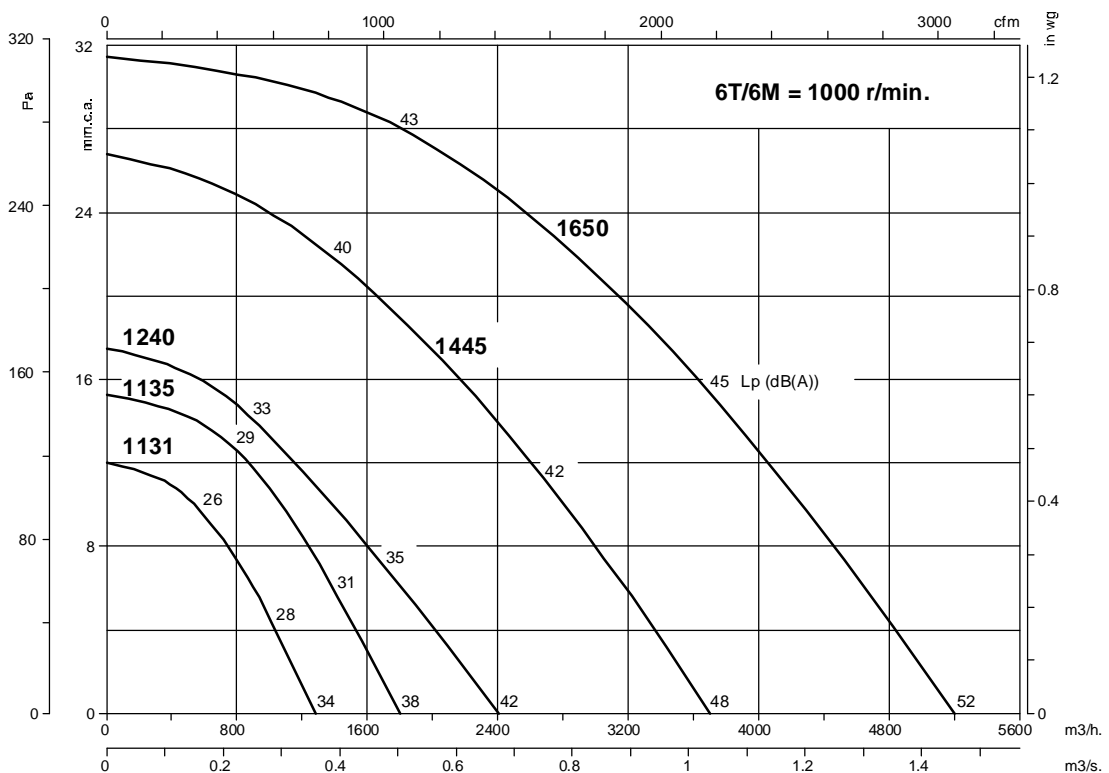
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## Characteristics Curves

Q = Airflow in m<sup>3</sup>/h and m<sup>3</sup>/s  
 Pe = Static pressure in mm.c.a. and Pa.



The Lp sound levels (dB(A)) indicated on the curves are free-field aspiration pressures measured at 6 metres.



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**Accessories**

See pages 248 onwards.



INT



RM



RFT



BAC



B



PA



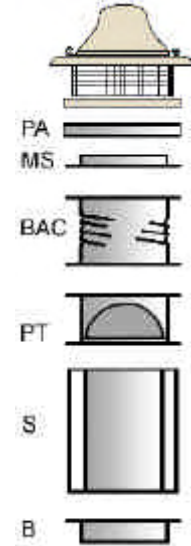
MS



PT



S



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