

RFHD

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Centrifugal roof fans with horizontal outlet and ATEX Ex d certification

Centrifugal roof fans with horizontal air outlet and hood in aluminium. ATEX certification and CEE ExII2G Ex d flame-resistant to work in explosive atmospheres.



Ex "d" marked: $\text{CE} \text{ Ex II 2G Ex d}$
 Notified authority: L.O.M
 Identification No:
 LOM03ATEX0147

Fan:

- Base support in galvanised steel with inlets made from brass according to standard EN-14986:2007
- Impeller with backward-curved blades made from galvanised sheet steel
- Bird guard
- Aluminium rain deflector hood

Motor:

- Class F motors with ball bearings and ATEX certification, Ex d II B T4 Gb 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

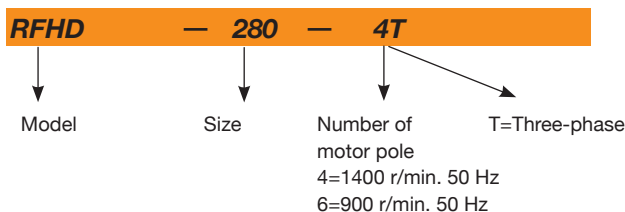
Finish:

- 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
- Ex d flame-resistant single-phase motors

Order code



Technical characteristics

Model	Speed (r/min)	Maximum current admissible (A)			Installed power (kW)	Maximum airflow (m³/h)	Sound pressure level dB(A)		Approx. weight (Kg)
		230V	400V	690V			Inlet	Outlet	
RFHD-280-4T	1370	2.08	1.20		0.25	1450	37	43	25
RFHD-315-4T	1370	2.08	1.20		0.25	2100	41	47	25
RFHD-315-6T	910	2.42	1.40		0.25	1400	30	36	25
RFHD-355-4T	1370	2.08	1.20		0.25	3100	45	50	32
RFHD-355-6T	910	2.42	1.40		0.25	2000	33	40	33
RFHD-400-4T	1410	2.94	1.70		0.55	4950	48	54	35
RFHD-400-6T	935	2.77	1.60		0.37	3200	37	43	35
RFHD-450-4T	1410	3.81	2.20		0.75	7000	55	61	52
RFHD-450-6T	935	2.77	1.60		0.37	4500	44	50	51
RFHD-500-4T	1400	6.93	4.00		1.50	10200	59	64	60
RFHD-500-6T	935	2.77	1.60		0.37	6900	47	54	53
RFHD-630-6T	910	5.89	3.40		1.10	12000	51	57	95
RFHD-710-6T	940	9.35	5.40		2.20	17300	54	61	118
RFHD-800-6T	950		14.00	8.10	5.50	24700	58	64	160

(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 Qmax.)

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
280-4	35	41	52	55	56	52	50	44
315-4	42	51	56	56	60	59	52	46
315-6	31	40	45	45	49	48	41	35
355-4	46	55	60	60	64	63	56	50
355-6	34	43	48	48	52	51	44	38
400-4	50	56	62	62	65	68	59	53
400-6	39	45	51	51	54	57	48	42
450-4	57	63	69	69	72	75	66	60
450-6	46	52	58	58	61	64	55	49
500-4	62	69	74	74	78	77	70	65
500-6	50	57	62	62	66	65	58	53
630-6	54	60	65	66	70	69	62	55
710-6	57	63	68	69	73	72	65	58
800-6	61	67	72	73	77	76	69	62

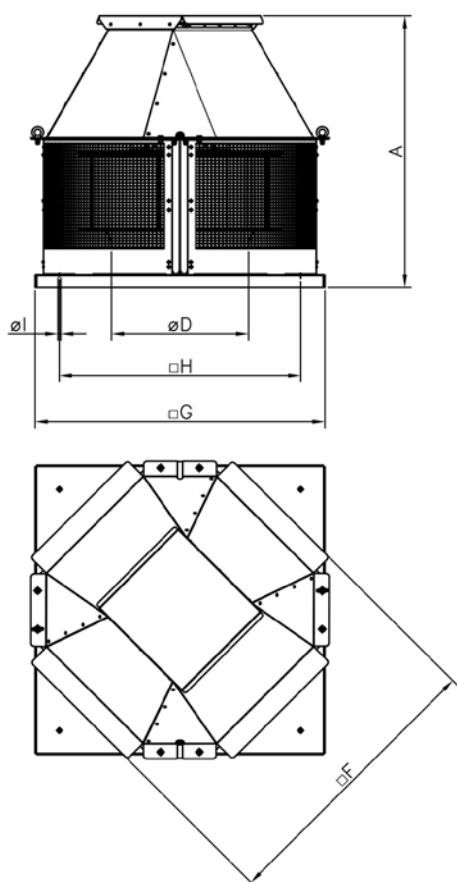
Values taken at outlet with 2/3 of the maximum airflow (2/3 Q_{max}).

Model	63	125	250	500	1000	2000	4000	8000
280-4	39	44	58	60	61	61	56	51
315-4	41	50	60	64	67	64	57	51
315-6	30	39	49	53	56	53	46	40
355-4	44	53	63	67	70	67	60	54
355-6	34	43	53	57	60	57	50	44
400-4	49	61	69	71	72	72	64	56
400-6	38	50	58	60	61	61	53	45
450-4	56	68	76	78	79	79	71	63
450-6	45	57	65	67	68	68	60	52
500-4	60	72	80	82	83	80	73	65
500-6	50	62	70	72	73	70	63	55
630-6	50	64	72	76	75	72	66	60
710-6	54	68	76	80	79	76	70	64
800-6	57	71	79	83	72	79	73	67

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



Model	A	ØD*	F	G	H	ØI
RFHD-280	515	250	460	450	360	12
RFHD-315	540	250	460	450	360	12
RFHD-355	610	355	565	560	450	12
RFHD-400	665	355	565	560	450	12
RFHD-450	720	500	735	710	590	12
RFHD-500	755	500	735	710	590	12
RFHD-630	845	630	890	900	750	14
RFHD-710	995	710	1110	1100	900	14
RFHD-800	1065	710	1110	1100	900	14

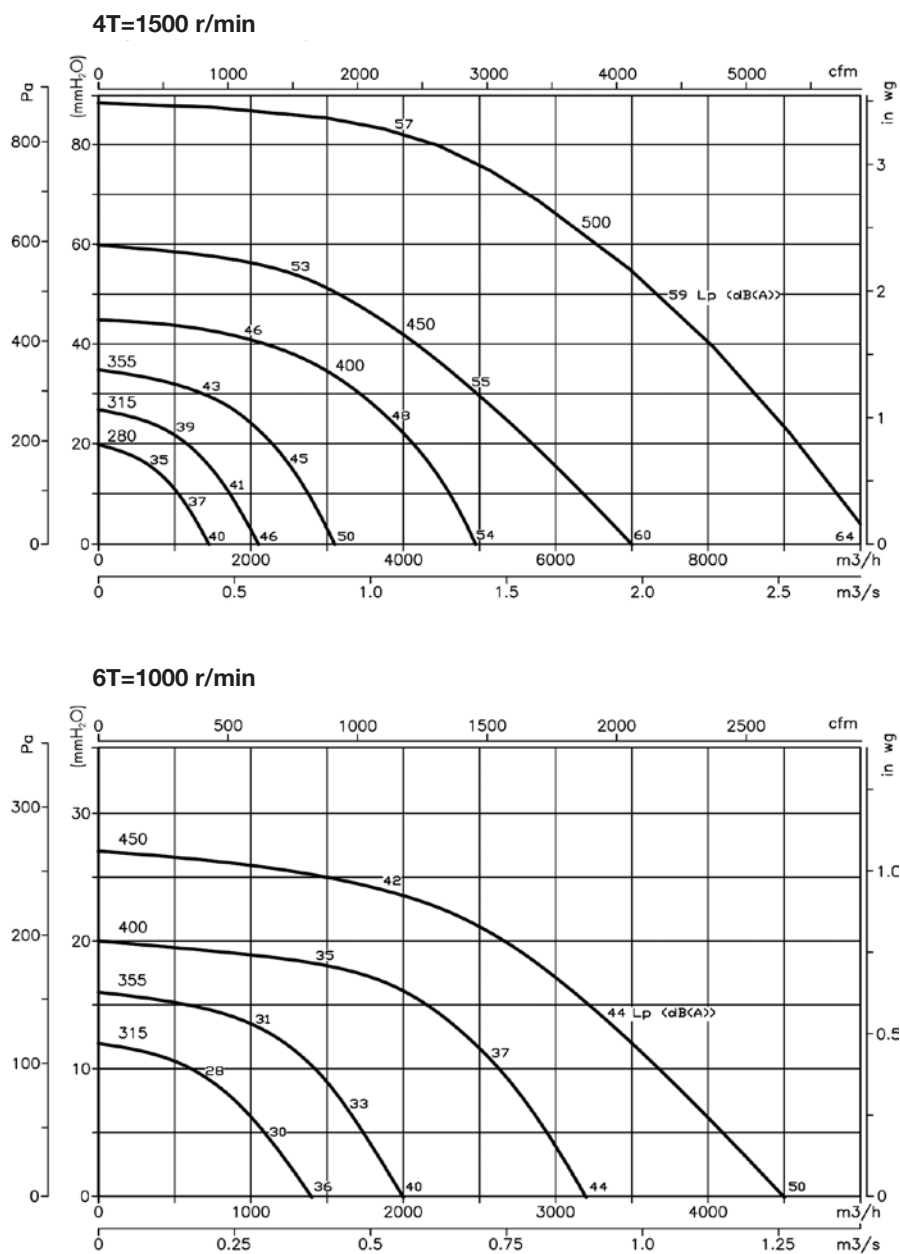
(*) Recommended nominal diameter for duct.

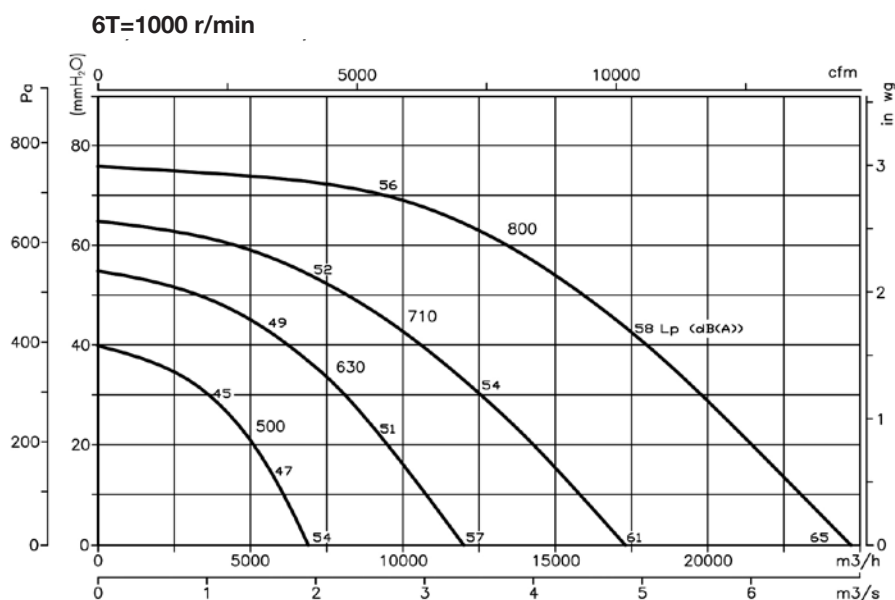
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Characteristic Curves

Q = Airflow in m³/h, m³/s and cfm.

Pe= Static pressure in mmH₂O, Pa and inwg.

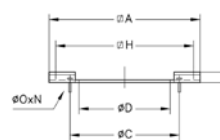
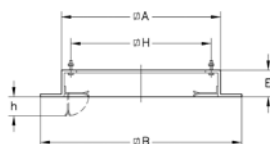
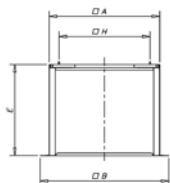


Characteristic CurvesQ = Airflow in m³/h, m³/s and cfm.Pe= Static pressure in mmH₂O, Pa and inwg.**Accessories**

See accessories section

**Mounting accessories RFHD**

RFHD Fan	Base plate	Support frame	Adaptation plate
280/315	BS-443	MS-443	PA-440/250
355/400	BS-553	MS-553	PA-550
450/500	BS-701	MS-701	PA-700/500
630	BS-891	MS-891	PA-890/630
710/800	BS-1086	MS-1086	PA-1085

**BS. High base plate**

	A	B	H	E
BS-443	449	616	360	800
BS-553	554	724	450	800
BS-701	706	876	590	900
BS-891	896	1076	750	900
BS-1086	1092	1272	900	900

MS. Support frame to facilitate assembly

	A	B	E	H	h
MS-443	443	615	60	360	70
MS-553	553	725	60	450	70
MS-701	701	875	60	590	90
MS-891	891	1065	60	750	90
MS-1086	1086	1260	60	900	90

PA. Adaptation plate to mount accessories on roof fans

	A	ØC	ØD	E	H	ØO	N
PA-440/250	440	280	249	20	360	M.6	4x90°
PA-550	550	395	354	20	450	M.6	8x45°
PA-700/500	700	560	499	20	590	M.10	12x30°
PA-890/630	890	690	629	20	750	M.10	12x30°
PA-1085	1088	770	704.5	20	900	M.10	16x22°30'