

RFHD

Roof mounted centrifugal fans with horizontal outlet, ATEX 2G certification and Ex db motor



Notified authority: LOM
 Identification no.: LOM 03ATEX0147
 Motor marking:
 Ⓜ II 2G Ex db IIB T4 Gb



Centrifugal roof fans, with horizontal air outlet and aluminum hood. ATEX 2G certification with flameproof ExII2G Ex db motor to work in explosive gas.

Fan:

- Support base in galvanised steel sheet, with brass suction mouth according to EN 14986 standard.
- Backward curved impeller made of galvanised sheet steel.
- Bird protection grid.
- Aluminum rain cover.
- Maximum temperature of air to be carried: -25 °C +80 °C.
- Standard marking with flameproof motor (Ex db): II 2G Ex h IIB T4 Gb.

Motor:

- Class F motors with ball bearings and ATEX certification flameproof Ex db.
- Three-phase 230/400 V 50 Hz (up to 4 kW) and 400/690 V 50 Hz (powers greater than 4 kW).
- Working temperature: -20 °C +40 °C.

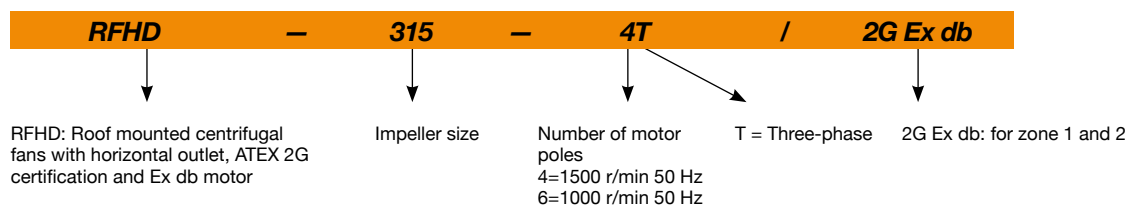
Finish:

- Galvanised steel sheet and aluminum.

On request:

- Motors with built-in PTC.
- Special windings for different voltages and frequencies.
- ATEX construction for different categories.
- Ex db flameproof single-phase motors.

Order code



Technical characteristics

Model	Speed (r/min)	Maximum admissible current (A)		Installed power (kW)	Maximum flow rate (m³/h)	Sound pressure level ¹ dB (A)		Approx. weight (Kg)
		230V	400V			Inlet	Exhaust	
RFHD-315-4T/2G Ex db	1400	1.20	0.69	0.25	2100	40	46	25
RFHD-355-4T/2G Ex db	1400	1.20	0.69	0.25	3100	44	49	32
RFHD-400-4T/2G Ex db	1420	2.87	1.65	0.55	4950	47	53	35
RFHD-450-4T/2G Ex db	1410	3.81	2.20	0.75	7000	54	60	52
RFHD-500-4T/2G Ex db	1400	6.93	4.00	1.50	10200	58	63	60
RFHD-500-6T/2G Ex db	935	2.77	1.60	0.37	6720	46	53	53
RFHD-630-6T/2G Ex db	910	5.89	3.40	1.10	12000	50	55	95

1. The noise level values are pressures in dB(A) measured at a distance of 6 metres in a free field.

Acoustic characteristics

The values given are obtained under laboratory conditions according to ISO 3744.
Sound power spectrum Lw(A) in dB(A) per Hz frequency band

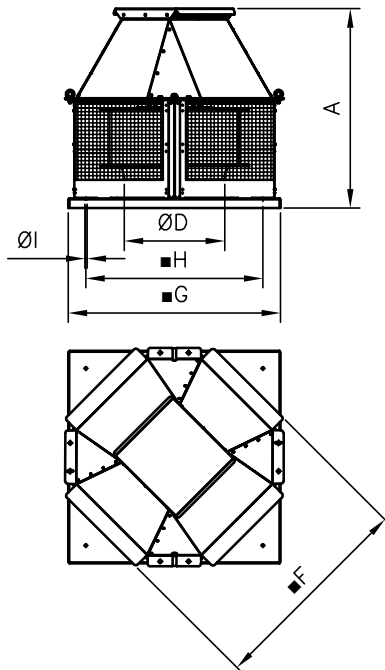
Values measured at inlet with maximum flow rate

	63	125	250	500	1000	2000	4000	8000
RFHD-315-4T	44	53	58	58	62	61	54	48
RFHD-355-4T	48	57	62	62	66	65	58	52
RFHD-400-4T	52	58	64	64	67	70	61	55
RFHD-450-4T	59	65	71	71	74	77	68	62
RFHD-500-4T	64	71	76	76	80	79	72	67
RFHD-500-6T	52	59	64	64	68	67	60	55
RFHD-630-6T	56	62	67	68	72	71	64	57

Values measured at exhaust with maximum flow rate

	63	125	250	500	1000	2000	4000	8000
RFHD-315-4T	43	52	62	66	69	66	59	53
RFHD-355-4T	46	55	65	69	72	69	62	56
RFHD-400-4T	51	63	71	73	74	74	66	58
RFHD-450-4T	58	70	78	80	81	81	73	65
RFHD-500-4T	62	74	82	84	85	82	75	67
RFHD-500-6T	52	64	72	74	75	72	65	57
RFHD-630-6T	52	66	74	78	77	74	68	62

Dimensions mm



	A	ØD*	F	G	H	ØI
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	740	500	735	710	590	12
RFHD-500	755	500	735	710	590	12
RFHD-630	845	630	890	900	750	14

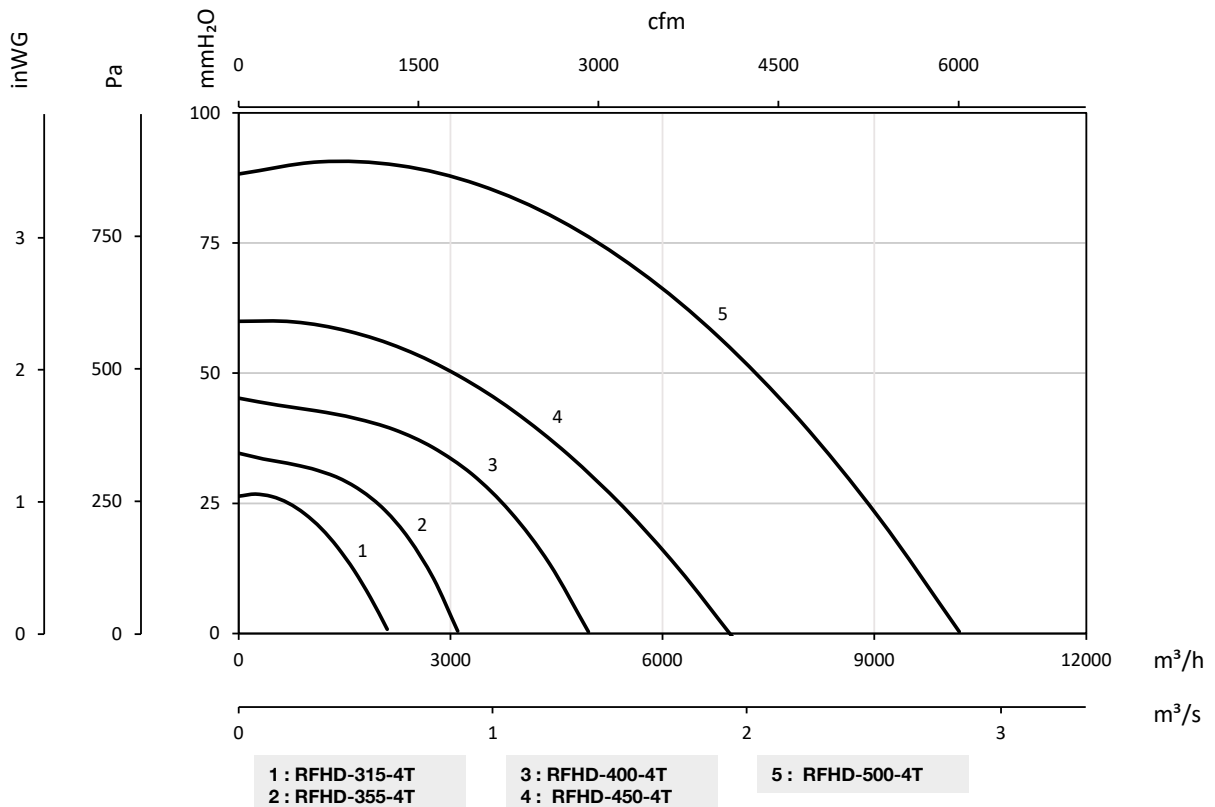
* Recommended nominal tube diameter

Characteristic curves

Q= Flow rate in m³/h, m³/s and cfm

Pe= Static pressure in mm H₂O, Pa and inWG

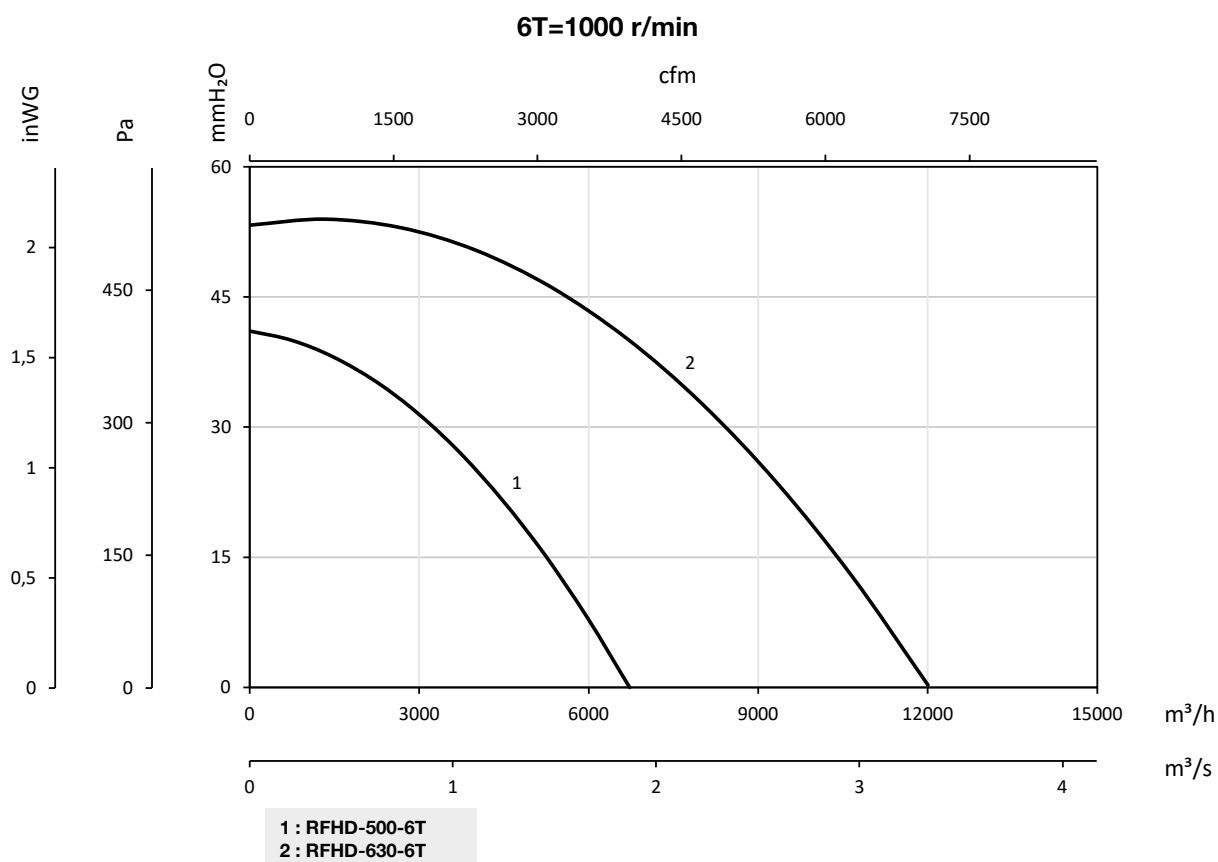
4T=1500 r/min



Characteristic curves

Q= Flow rate in m³/h, m³/s and cfm

Pe= Static pressure in mm H₂O, Pa and inwg



Accessories

