

HDF

Axial fans with circular frames, ATEX II 2G certification and Ex db motors, for use with hydrogen



Notified authority: LOM
Identification no.: LOM 03ATEX0157
Motor marking:
Ⓜ II 2G Ex db IIC T4 Gb



ATEX certified, circular axial fans with flameproof ExII2G Ex db motor for working in explosive atmospheres, with IIB+H2 T4 marking for use with hydrogen.

Fan:

- Cast aluminium impellers.
- Airflow direction from motor to impeller.
- Flameproof cable gland included.
- Support ring in sheet steel, with aluminum band in the propeller area according to EN 14986 standard.
- Standard marking with flameproof motor (Ex db): II 2G Ex h IIB+H2 T4 Gb.

Motor:

- Class F motors, with ball bearings, IP55 protection, ATEX 2G certification, flameproof Ex db.

- Single-phase 230 V 50 Hz and 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.

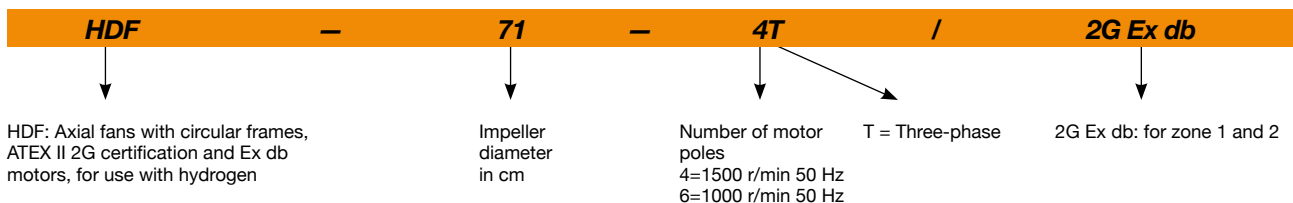
Finish:

- Anti-corrosive with ATEX paint, free of iron components, in polyester resin polymerized at 190 °C, after degreasing with phosphate-free nanotechnological treatment.

On request:

- Special windings for different voltages and frequencies.
- ATEX construction for different categories.
- Fans with 2 speed motor.

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		
HDF-63-4T/2G Ex db	1380	4.35	2.50	1.10	15015	69		49
HDF-63-6T/2G Ex db	935	2.77	1.60	0.37	12530	57		37
HDF-71-4T/2G Ex db	1380	4.35	2.50	1.10	20110	74		52
HDF-71-6T/2G Ex db	930	3.46	2.00	0.55	13745	62		43
HDF-80-4T/2G Ex db	1410	11.11	6.39	3.00	34235	78		76
HDF-80-6T/2G Ex db	910	5.89	3.40	1.10	20225	67		66
HDF-90-4T/2G Ex db	1415	13.48	7.75	4.00	47670	85		87
HDF-90-6T/2G Ex db	940	7.62	4.40	1.50	30000	73		83

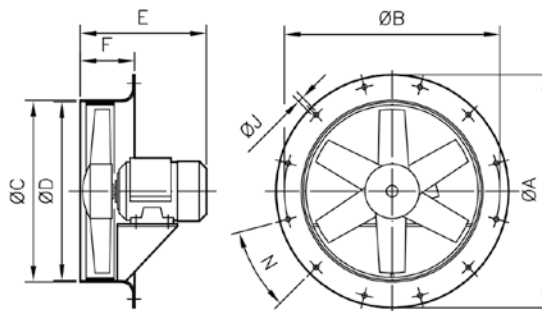
1. The noise level values are pressures in dB(A) measured at a distance of 3 metres in a free field.

Acoustic characteristics

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		63	125	250	500	1000	2000	4000	8000
HDF-63-4T	51	65	84	84	85	83	79	70	HDF-80-4T	60	80	88	93	95	92	85	74
HDF-63-6T	39	53	72	72	73	71	67	58	HDF-80-6T	49	69	77	82	84	81	74	63
HDF-71-4T	56	76	84	89	91	88	81	70	HDF-90-4T	67	88	95	100	103	99	92	81
HDF-71-6T	44	64	72	77	79	76	69	58	HDF-90-6T	55	76	83	88	91	87	80	69

Dimensions mm



	ØA	ØB	ØC	D	E	F	ØJ	N
HDF-63-4T	730	690	645	640	370	150	12	12x30°
HDF-63-6T	730	690	645	640	330	150	12	12x30°
HDF-71-4T	810	770	715	710	349	150	12	16x22°30'
HDF-71-6T	810	770	715	710	323	150	12	16x22°30'
HDF-80-4T	900	860	805	800	421	180	12	16x22°30'
HDF-80-6T	900	860	805	800	371	180	12	16x22°30'
HDF-90-4T	1015	970	906	900	457	180	15	16x22°30'
HDF-90-6T	1015	970	906	900	415	180	15	16x22°30'

Accessories



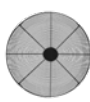
INT/ATEX



P



R



RI



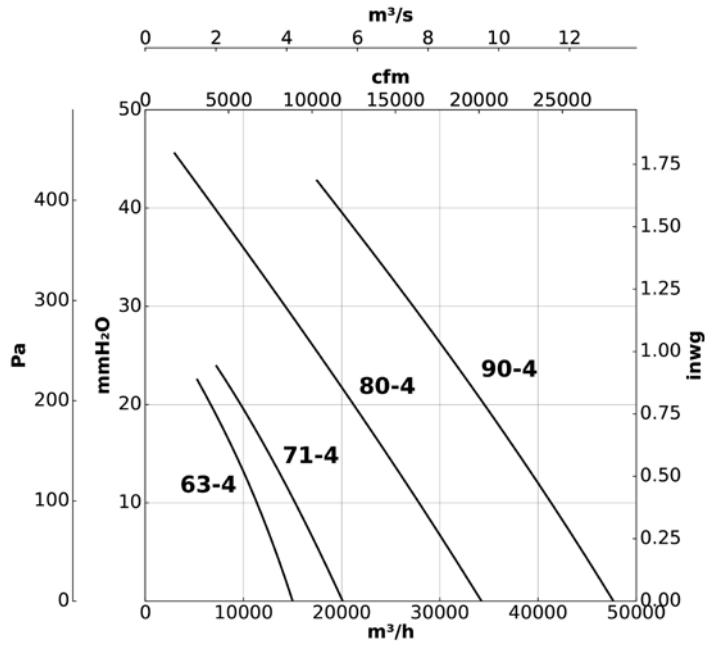
ACE ACE/400

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



6T=1000 r/min

