



Acid proof roof fans type HF D

Anti-acid roof fans

Application

- **HF D** roof fans are ideally suitable for exhaust of aggressive gases
- They are used for extraction of fume cupboards in laboratories and baths in the galvanizing industry

Composition

- The fan housing is composed of this series are made in fire resistant polyethylene (PEs/PE-FR)
- The impeller is made via injection moulding process in hardly inflammable polypropylene (PPs/PP-FR)
- Statically and dynamically balanced impeller (quality class Q 6.3 to VDI 2056), in conjunction with a flow-optimized fan housing, ensures very quiet run
- Squirrel cage asynchronous type B5
- Protection: IP55
- Insulation class F
- Supply: 230Vac 1ph or 400Vac 3ph 50hz

Accessories

- Roof sockets
 - Roof socket for brickwork base for HF D, type **DOHF**
 - Roof socket with base for HF D, type **DOSHF** (price on request)
 - Roof socket with sound-insulating base for HF D, type **DOGSHF** (price on request)
- Frequency inverter 3x400V in / 3x400V out, type **FIS-44**
- Flexible PVC sleeve, type **PVC** (mounting only possible on roof curb DOHF, DOSHF, DOGSHF)

Options

- 2-speed motors
- ATEX version follow ATEX 94/9/CE
- 230Vac on demand (plug&play - not suited for transformer and frequency regulation)
- Horizontal mounting available upon request (technical drawing can be downloaded in the downloads section)

Order example

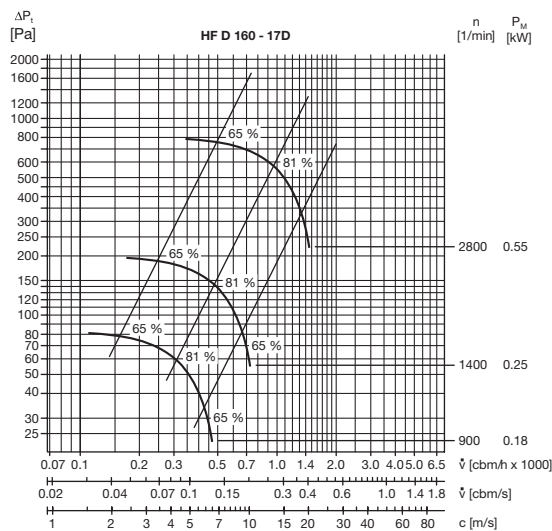
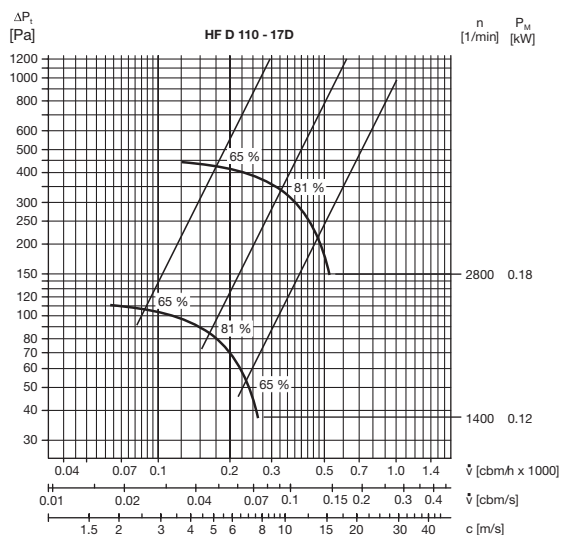
HF D 160-17D 400V 1450 rpm

- **HF D** = type of fan
- **160** = diameter
- **17** = impeller type
- **D** = direct driven
- **400V** = supply
- **1450 rpm** = speed

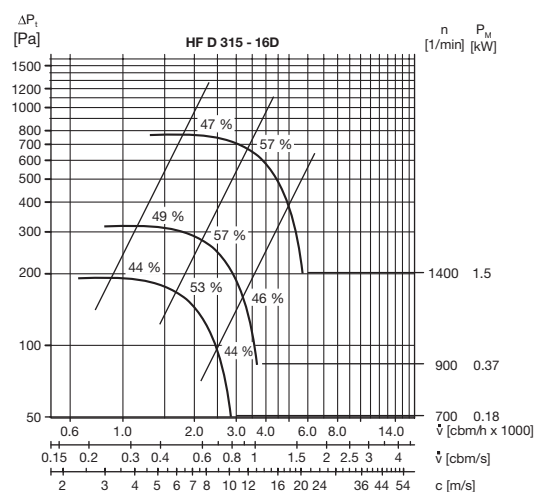
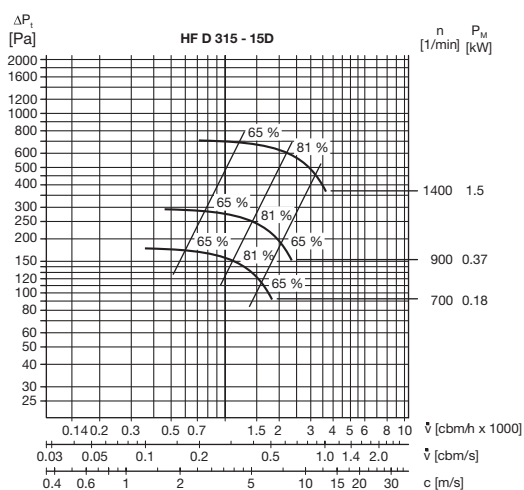
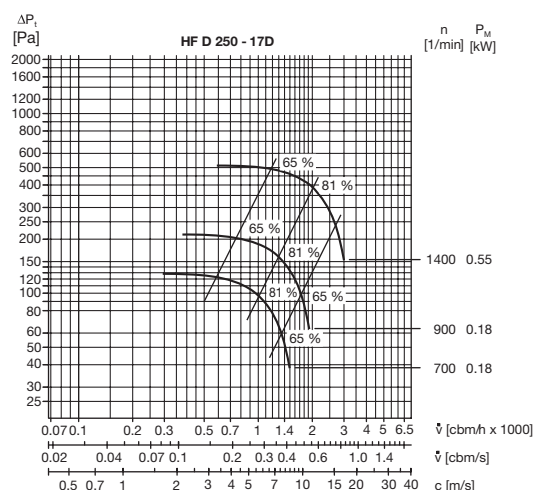
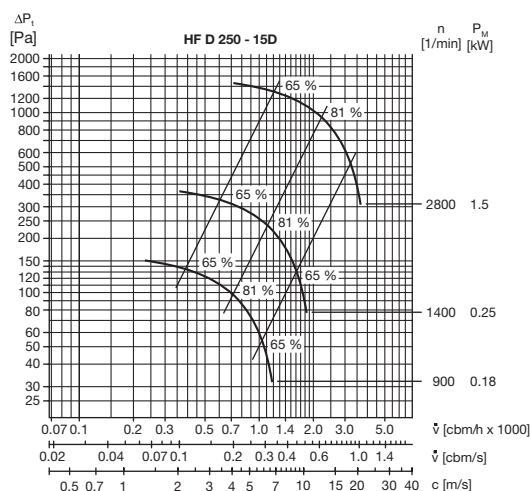
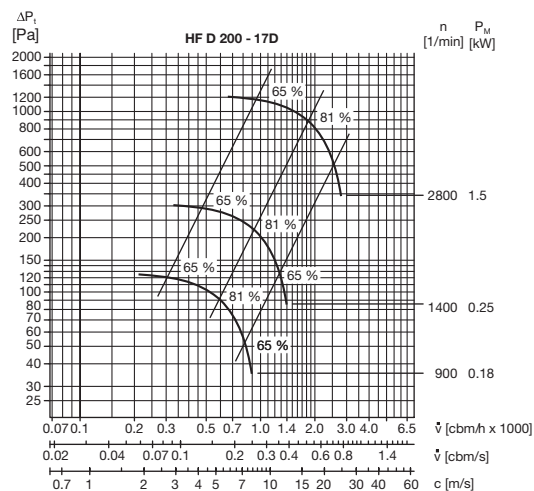
Attention

The given pressure is the total pressure.

Selection curves



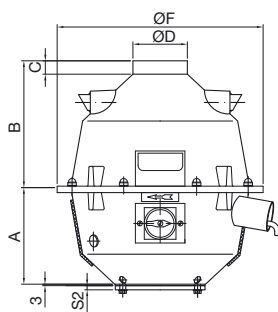
Selection curves



Technical data							
	U [V]	P [kW]	I [A]	SC _T	n [rpm]	Lpa @ 1m [dB(A)]	
						Lpa 5 = Lpa 6	Lpa 2
HF D 110*	1x230	0.18	1.70	-	1400	51	43
HF D 160*	1x230	0.25	2.10	-	1400	55	47
HF D 200*	1x230	0.25	2.10	-	1400	59	51
HF D 250*	1x230	0.55	2.10	-	1400	63	55
HF D 315*	1x230	1.50	1.50	-	1400	80	70
HF D 110	3x400	0.18	0.71	FIS 4420E-0,75 / FIS 4466E-0,75	1400	51	43
HF D 160	3x400	0.25	0.82	FIS 4420E-0,75 / FIS 4466E-0,75	1400	55	47
HF D 200	3x400	0.25	0.82	FIS 4420E-0,75 / FIS 4466E-0,75	1400	59	51
HF D 250	3x400	0.55	0.82	FIS 4420E-0,75 / FIS 4466E-0,75	1400	63	55
HF D 315	3x400	1.50	3.60	FIS 4420E-1,5 / FIS 4466E-1,5	1400	80	70

- SC_T = Transformer speed controller
- Lpa 2 = Sound pressure level measured at 1 m distance with ducted inlet and outlet
- Lpa 5 = Lpa 6 = Sound pressure level measured at 1 m distance in free field
- Sound pressure level Lpa measured according to DIN 45635

* Only available upon request



Dimensions							
	A [mm]	B [mm]	C [mm]	ØE [mm]	ØF [mm]	n x ØG [mm]	[kg]
HF D 110 17D	195	256	27	170	416	8 x 9	7.50
HF D 160 17D	243	311	27	230	501	8 x 9	17
HF D 200 17D	284	348	38	270	578	8 x 9	23
HF D 250 15D	282	330	38	320	626	12 x 9	40
HF D 315 15D	325	412	42	395	803	12 x 9	48