



Anti-acid roof fans type HF D

Anti-acid roof fans with built-in AC motor outside of the air flow

Brand

- Hürner Luft- und Umwelttechnik

Application

- The **HF D** roof fans are ideally suitable for exhaust of aggressive gasses
- They are particularly applicable for the extraction in:
 - Laboratoria
 - Chemical and petrochemical industry
 - Metal treatment industry
 - Food and beverage industry
 - Water treatment systems

Composition

- The fan housing is made of fire-resistant polyethylene (PEs/PE-FR) and is composed by 2 parts bolted together
- The housing is fitted with a splinter guard
- The impeller is made of fire-resistant polypropylene (PPs/PE-FR) and is of the backward-curved blade type, statically and dynamically balanced according to Q 6.3 (VDI 2056)
- Motor out of the airflow (fully encapsulated)
- Squirrel cage asynchronous type B5
- Protection: IP55
- Insulation class F
- Supply: 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, type **FIS(-C)-44-B**
- 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)

Other available products

These **HF D** fans are just a few of the very wide range of HF-fans. For a selection and price, perfectly tailored to your project, please send your request to engineering@cairox.be.

Order example

HF D 160-17D 400V 1450 rpm

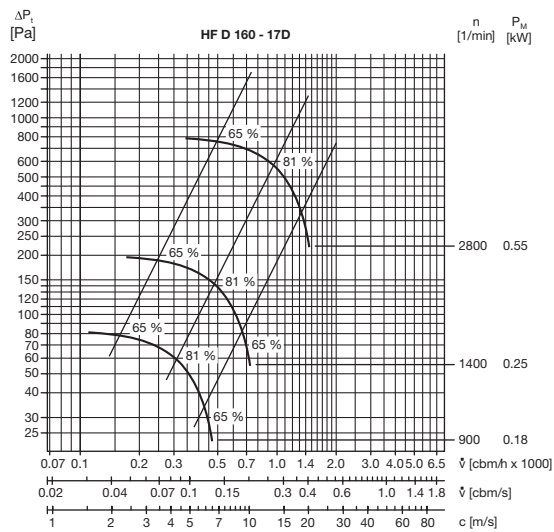
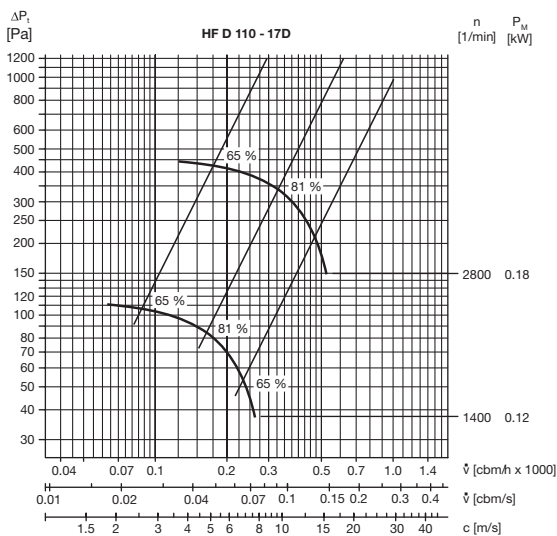
- **HF D** = type of fan
- **160** = diameter
- **17** = impeller type
- **D** = direct driven
- **400V** = supply
- **1450 rpm** = speed

Air performance data							
	Q [m ³ /h]						
	50Pa	100Pa	200Pa	300Pa	400Pa	500Pa	600Pa
HF D 110	250	100	-	-	-	-	-
HF D 160	750	600	200	-	-	-	-
HF D 200	-	1400	1100	350	-	-	-
HF D 250	-	1400	1200	750	-	-	-
HF D 315	-	-	-	4000	3500	3000	2300

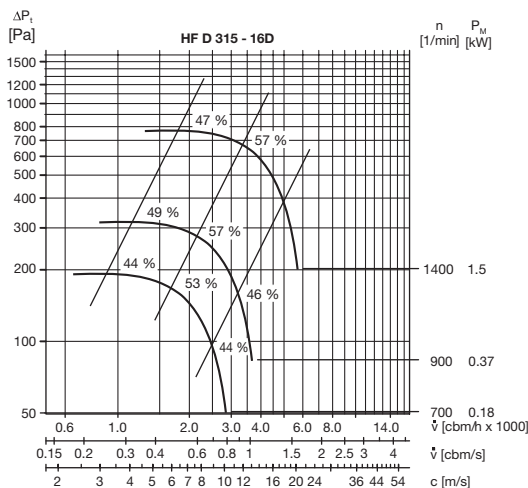
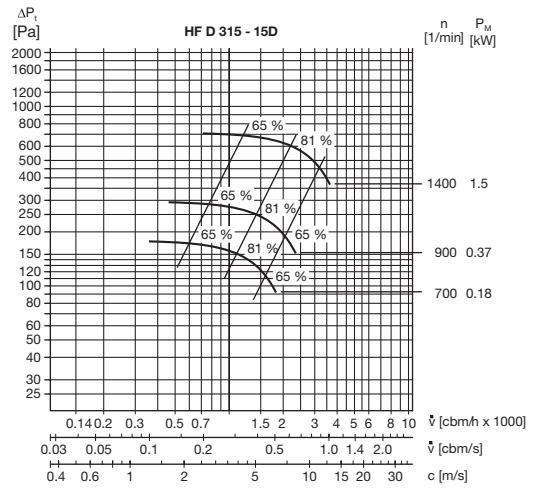
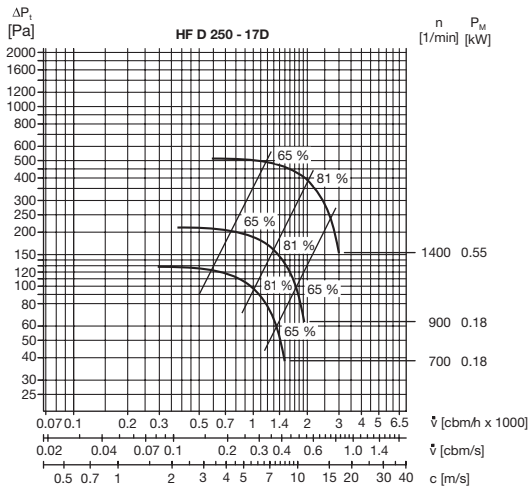
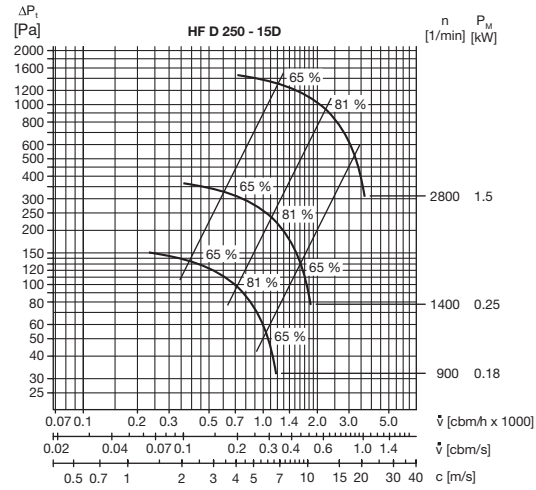
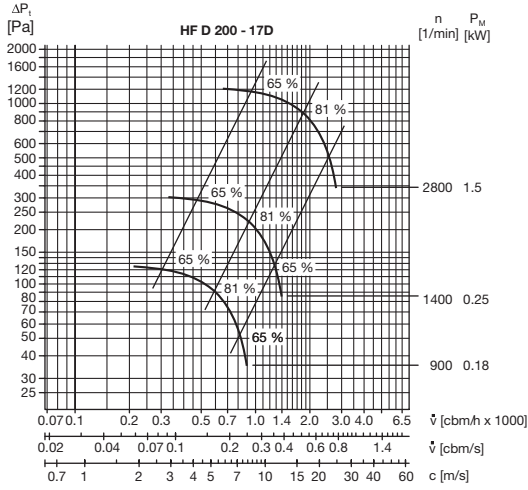
Attention

The given pressure is the total pressure.

Selection curves

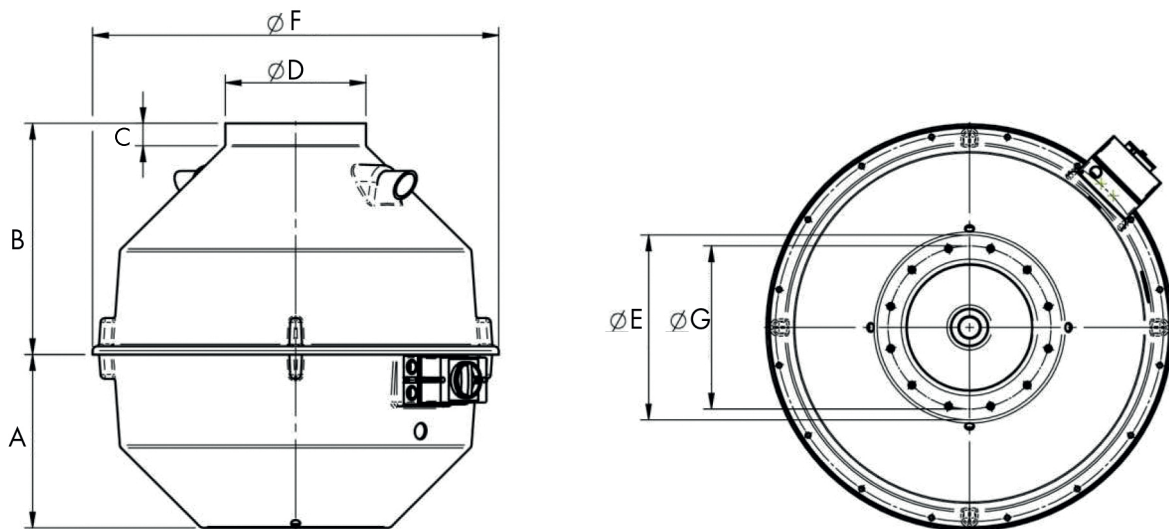


Selection curves



Technical data								
	U [V]	P [kW]	I [A]	SC _F	T _m [°C]	n [rpm]	Lpa @ 1m [dB(A)]	
							Lpa 5 = Lpa 6	Lpa 2
HF D 110	3x400	0.18	0.71	FIS-4420E-0.75-B	40	1400	51	43
HF D 160	3x400	0.25	0.82	FIS-4420E-0.75-B	40	1400	55	47
HF D 200	3x400	0.25	0.82	FIS-4420E-0.75-B	40	1400	59	51
HF D 250	3x400	0.55	0.82	FIS-4420E-0.75-B	40	1400	63	55
HF D 315	3x400	1.50	3.60	FIS-4420E-1.5-B	40	1400	80	70

- SC_F = 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



	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