



Anti-acid centrifugal fans type HF R

Anti-acid centrifugal fans

Brand

- Hürner Luft- und Umwelttechnik

Application

- These fans are suitable for extraction 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 casing is made of fire resistant polyethylene (PEs/PE-FR,RAL7036)
- The housing is fitted with a splinter guard and condensate drain at its deepest point
- The impeller is made of fire-resistant polypropylene (PPs/PP-FR) and is of the backward-curved blade type, statically and dynamically balanced according to Q 6.3 (VDI 2056)
- In the case of direct drive, the impeller is directly mounted on the motor shaft by a Taperlock bush
- The impeller can be demounted without removing the housing
- Squirrel cage asynchronous motor
- Motor with PTC for use with frequency inverter
- Supply: 400Vac 3ph 50 Hz
- Protection: IP55
- Insulation class: F

Accessories

- Flexible connections made of PVC, type **PVC**
- Set anti-vibration mounth, type **AVM**
- Safety switch, type **SCHALTER**
- Motor protection cover, type **KC**
- Frequency controller 3x400V, type **FIS(-C)-44-B**

Options

- ATEX version in accordance with directive ATEX 94/9/CE:
 - ATEX 3G (ATEX zone 2 inside/outside)
 - ATEX 2G (ATEX zone 1 inside/outside) with PE-el housing and PP-el impeller for diameters: HF R 125, 160, 200, 250, 315, 400 en 500
- Two speed motors
- 230Vac (plug&play - not suitable for transformer and frequency control)

Other available products

These **HF R** 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 R 160-17D 400V 1500 rpm GR090

HF R = type of fan

160 = diameter

17 = type of impeller

D = direct driven / R = belt driven

400V = supply

1500 rpm = speed

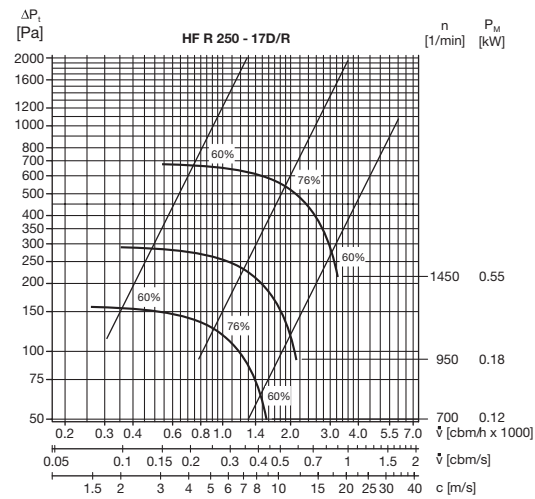
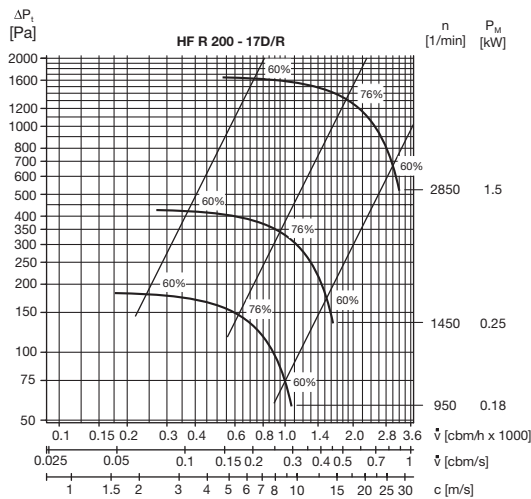
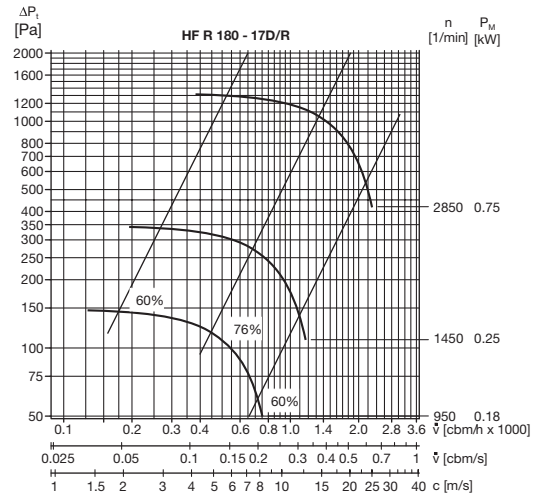
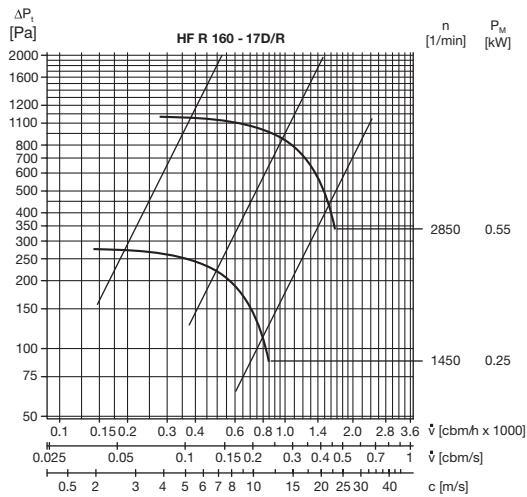
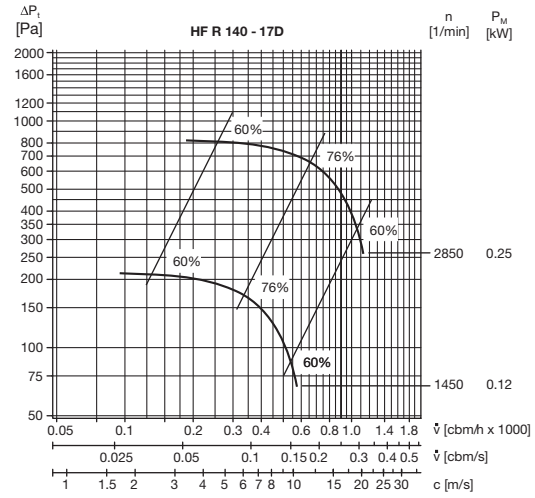
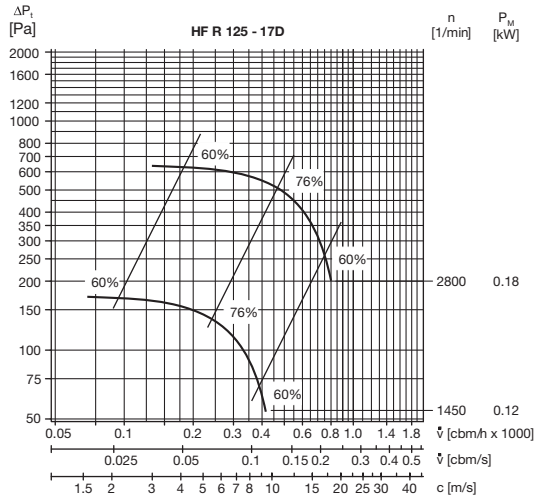
GR090 = casing orientation

Air performance data											
	Q [m³/h]										
	75Pa	100Pa	150Pa	200Pa	250Pa	300Pa	400Pa	500Pa	600Pa	750Pa	1000Pa
HF R125 17D	375	300	150	-	-	-	-	-	-	-	-
HF R140 17D	550	500	400	200	-	-	-	-	-	-	-
HF R160 17D	-	800	700	600	300	-	-	-	-	-	-
HF R180 17D	-	-	1050	950	700	600	-	-	-	-	-
HF R200 17D	-	-	-	1450	1260	1080	600	-	-	-	-
HF R250 17D	-	-	-	-	3100	2880	2600	2160	1440	-	-
HF R280 17D	-	-	-	-	-	4400	4000	3600	3240	2160	-
HF R315 15D	-	-	-	-	-	-	3960	3600	3240	2160	-
HF R355 15D	-	-	-	-	-	-	-	5760	5400	4500	2520
HF R400 15D	-	-	-	-	-	-	-	-	7200	6840	5760
HF R450 15D	-	-	-	-	-	7200	6840	5760	4800	-	-
HF R500 15D	-	-	-	-	-	-	10440	9720	8640	6480	-

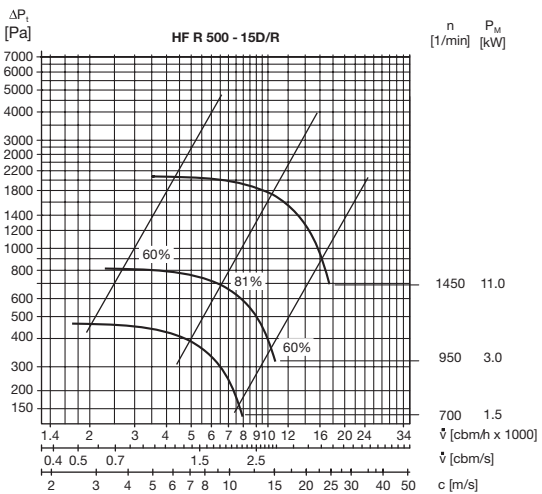
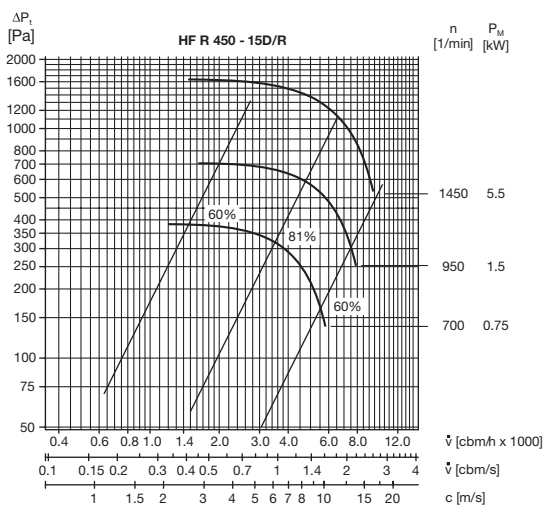
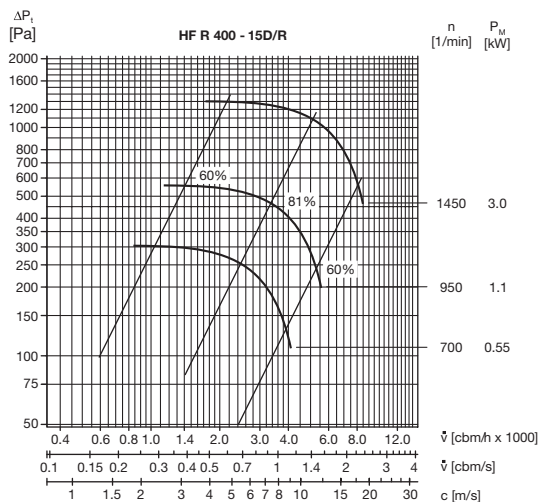
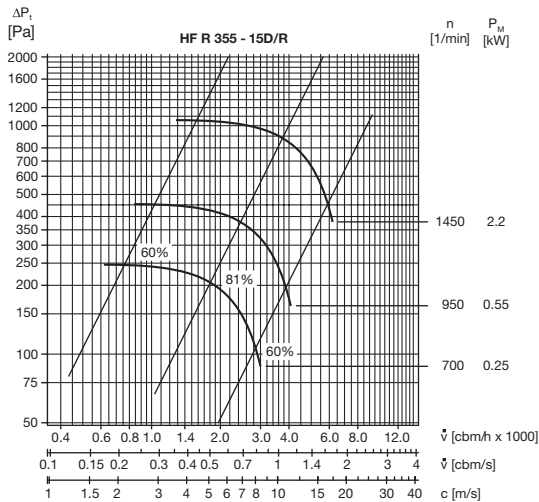
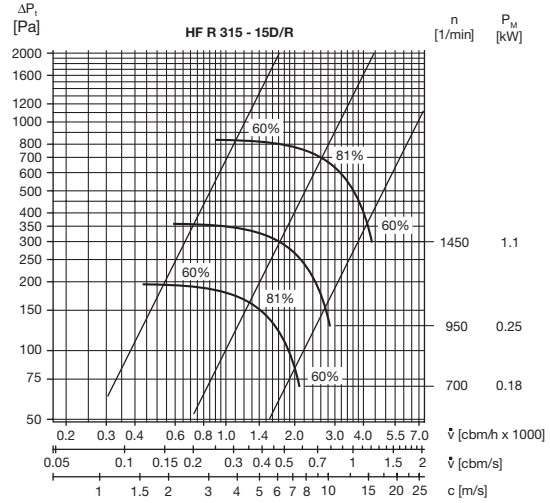
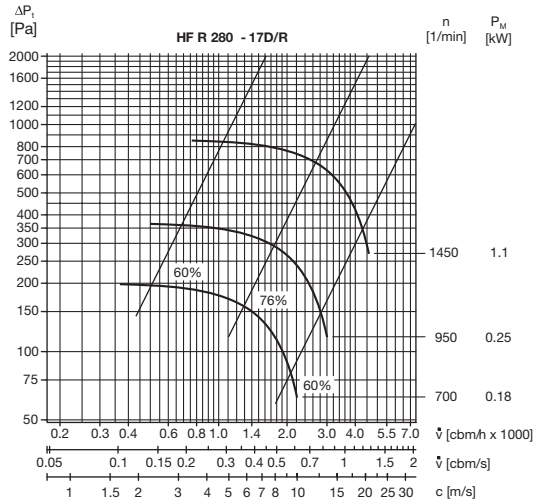
Attention

The given pressure is the total pressure.

Selection curves

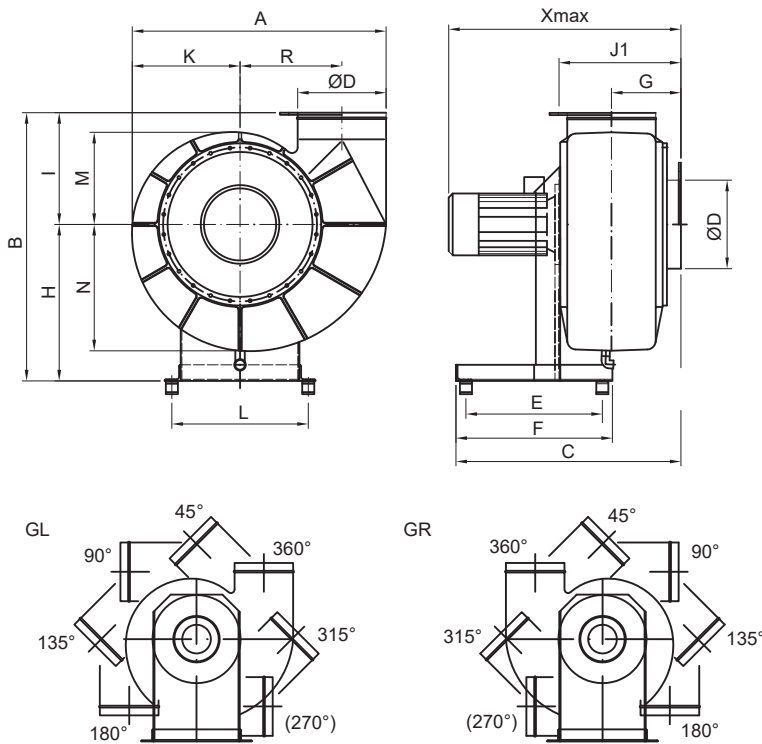


Selection curves



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 R125 17D	3x400	0.12	0.52	FIS-4420E-0.75-B	60	1450	53	41
HF R140 17D	3x400	0.12	0.52	FIS-4420E-0.75-B	60	1450	56	44
HF R160 17D	3x400	0.25	0.82	FIS-4420E-0.75-B	60	1450	60	48
HF R180 17D	3x400	0.25	0.82	FIS-4420E-0.75-B	60	1450	64	52
HF R200 17D	3x400	0.25	0.82	FIS-4420E-0.75-B	60	1450	67	55
HF R250 17D	3x400	0.55	1.60	FIS-4420E-0.75-B	60	1450	74	62
HF R280 17D	3x400	1.1	2.70	FIS-4420E-1.5-B	60	1450	77	66
HF R315 15D	3x400	1.1	2.70	FIS-4420E-1.5-B	60	1450	71	62
HF R355 15D	3x400	1.5	3.3	FIS-4420E-1.5-B	60	1450	75	66
HF R400 15D	3x400	3	6.33	FIS-4420E-4.0-B	60	1450	78	69
HF R450 15D	3x400	1.5	3.75	FIS-4420E-1.5-B	60	950	69	60
HF R500 15D	3x400	2.2	5.29	FIS-4420E-2.2-B	60	950	71	64

- SC_F = Speed controller
- T_m = Maximum air temperature
- 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



Attention

At the orientation drawing, the motor is directed towards you.

	Dimensions															
	A [mm]	B [mm]	C [mm]	E [mm]	F [mm]	G [mm]	H [mm]	ØD [mm]	J [mm]	K [mm]	L [mm]	M [mm]	N [mm]	R [mm]	X max. [mm]	[kg]
HF R125	366,5	435	422	248	298	122	238	125	212	154	248	137	182	150	504	12
HF R140	409	462	428	248	298	129	256	140	226	172	248	149	201	167	518	13
HF R160	464	508	479	290	340	139	280	160	245	196	290	170	231	188	550	22
HF R180	522	558	517	314	364	151	310	180	269	221	314	190	257	211	629	27
HF R200	582	612	550	334	384	162	342	200	292	244	334	212	287	238	652	31
HF R250	732	728	635	400	450	184	415	250	335	313	400	266	357	294	736	49
HF R280	816	804	711	460	510	200	455	280	367	350	460	301	401	326	768	62
HF R315	920,5	939	731	424	474	252	510	315	439	393	424	335	459	370	840	65
HF R355	1030	1061	836	665	745	271	595	355	476	436	376	371	509	416	877	97
HF R400	1141	1154	888	723	803	290	650	400	515	484	412	415	564	457	916	87
HF R450	1297	1311	994	814	894	323	730	450	580	556	478	479	637	516	1100	116
HF R500	1469	1411	1052	893	973	337	810	500	609	623	530	540	718	596	1284	123