



Acid proof centrifugal fans type HF R

Acidproof single inlet centrifugal fan

Application

- The fans are suitable for extraction of aggressive gases.
- For exhaust of fume cupboards in laboratories and baths in the galvanizing industry.

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 has been balanced statically and dynamically according to Q6.3 and in accordance with VDI 2056 - Thermoplastic materials are used for the construction of the impeller
- In the case of direct drive, the impeller is directly mounted on the motor shaft by a Taperlock bush
- The impeller can be removed without dismantle 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-44**

Options

- Flameproof version in accordance with directive ATEX 94/9/CE
- Two speed motors

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

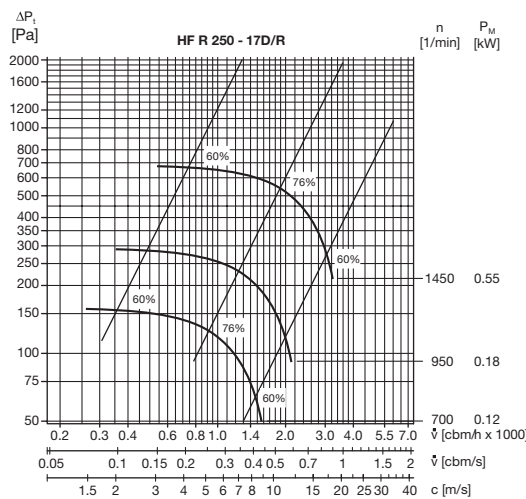
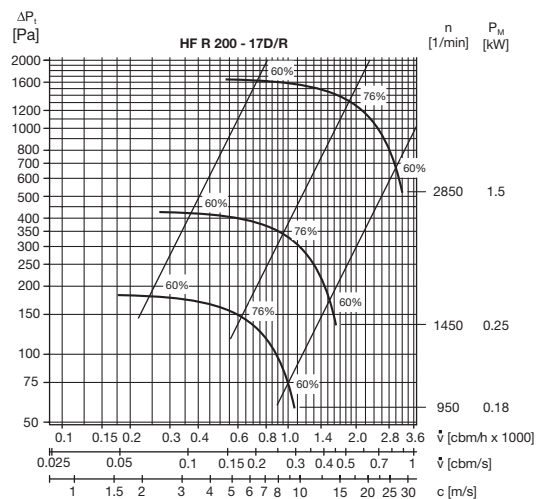
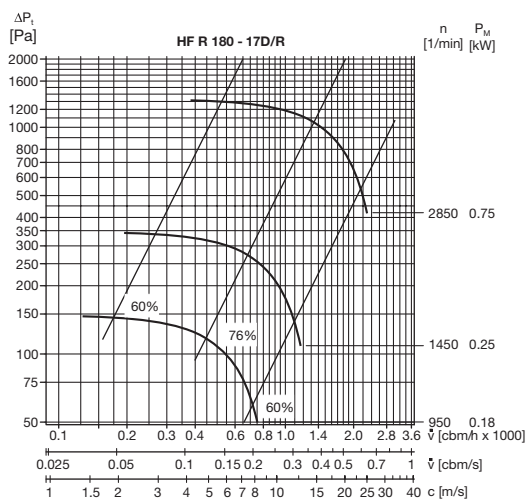
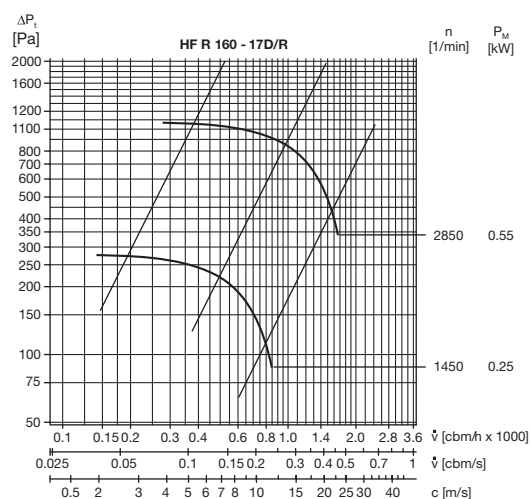
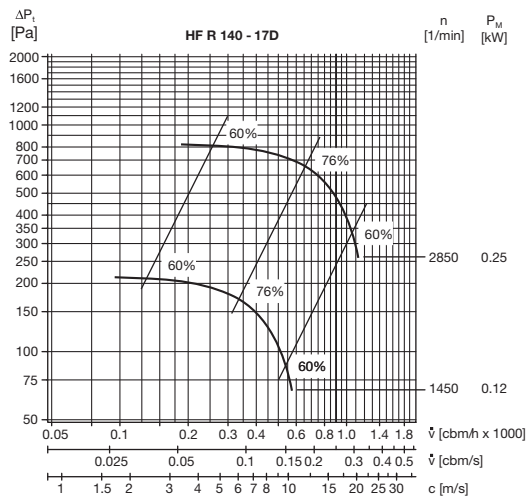
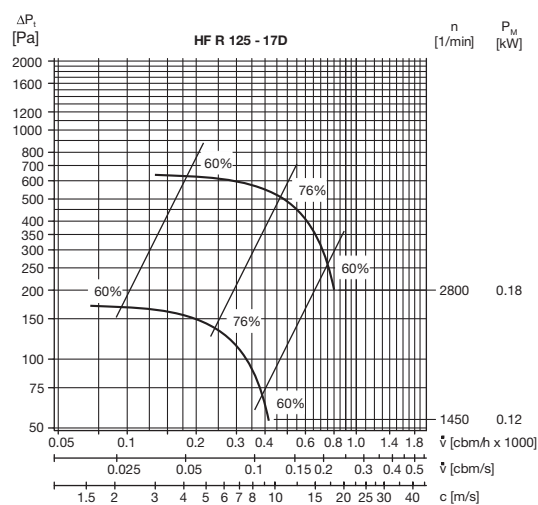
1500 rpm = speed

GR090 = casing orientation

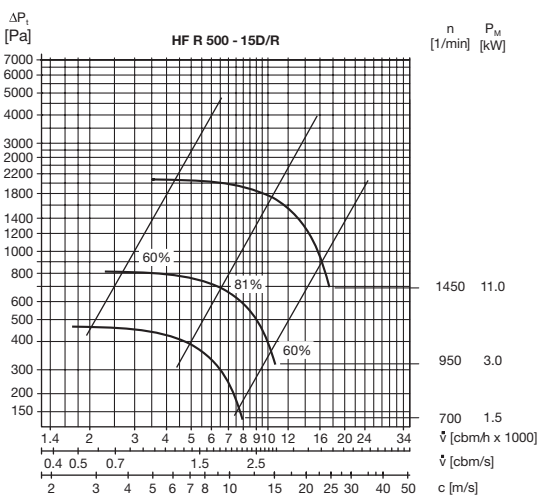
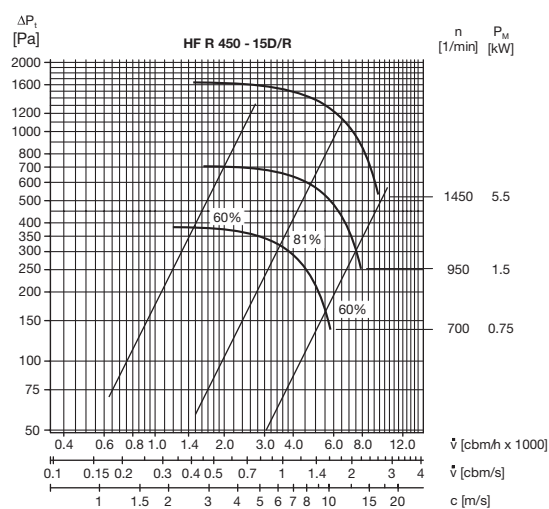
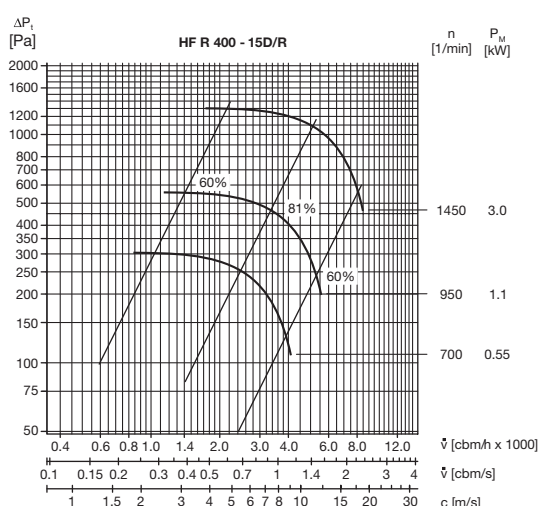
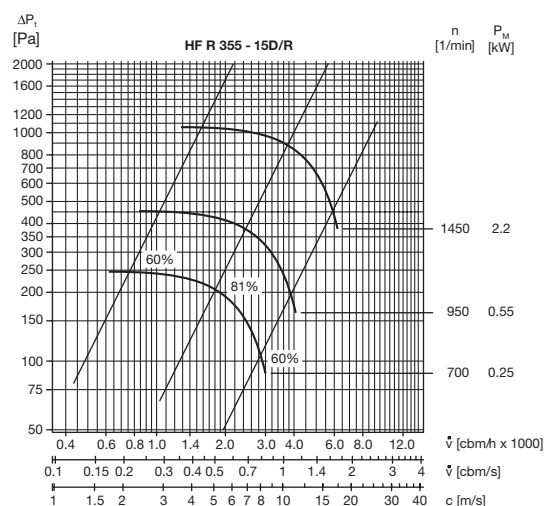
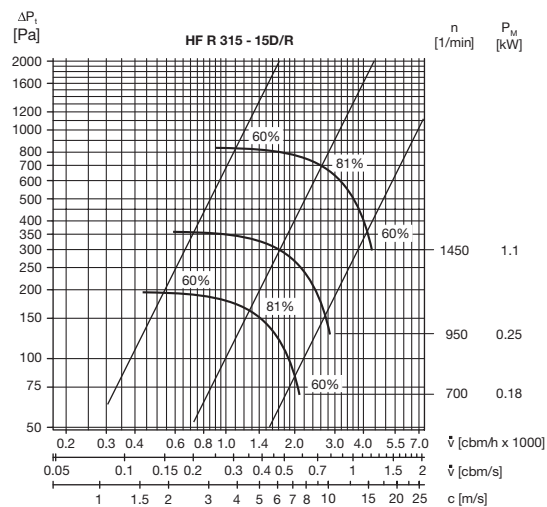
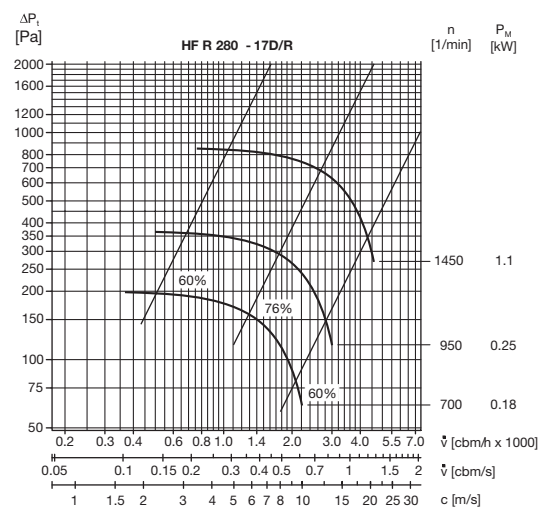
Attention

The given pressure is the total pressure.

Selection curves



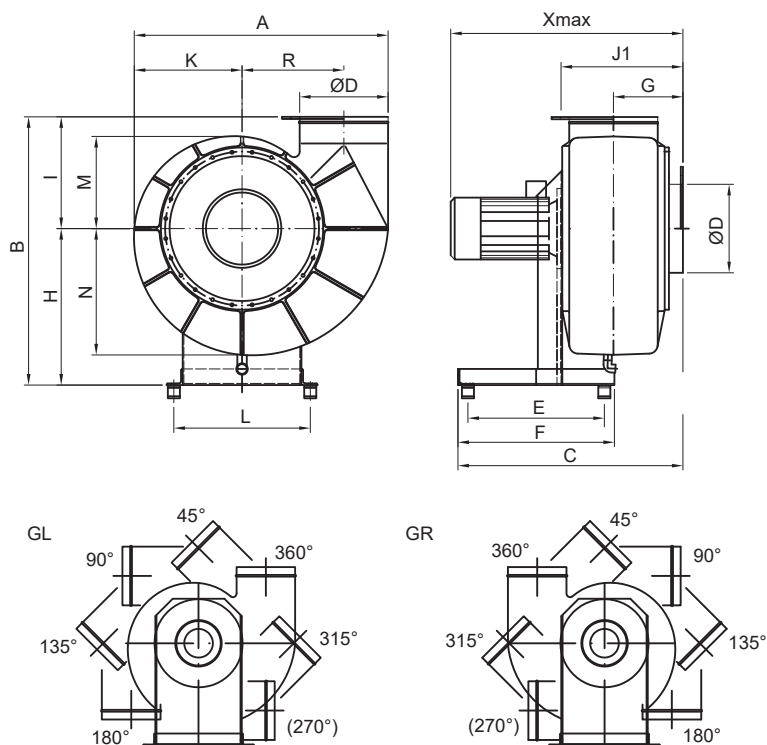
Selection curves



Technical data								
	U [V]	P [kW]	I [A]	SC _T	n [rpm]	Lpa @ 1m [dB(A)]		
						Lpa 5 = Lpa 6	Lpa 2	
HF R125 17D*	1x230	0.18	1.70	-	1450	53	41	
HF R140 17D*	1x230	0.18	1.70	-	1450	56	44	
HF R160 17D*	1x230	0.25	2.10	-	1450	60	48	
HF R180 17D*	1x230	0.25	2.10	-	1450	64	52	
HF R200 17D*	1x230	0.25	2.10	-	1450	67	55	
HF R250 17D*	1x230	0.55	4.40	-	1450	74	62	
HF R280 17D*	1x230	1.10	8	-	1450	77	66	
HF R315 15D*	1x230	1.10	8	-	1450	71	62	
HF R125 17D	3x400	0.12	0.52	FIS4420E-0.75 / FIS 4466E-0.75	1450	53	41	
HF R140 17D	3x400	0.12	0.52	FIS4420E-0.75 / FIS 4466E-0.75	1450	56	44	
HF R160 17D	3x400	0.25	0.82	FIS4420E-0.75 / FIS 4466E-0.75	1450	60	48	
HF R180 17D	3x400	0.25	0.82	FIS4420E-0.75 / FIS 4466E-0.75	1450	64	52	
HF R200 17D	3x400	0.25	0.82	FIS4420E-0.75 / FIS 4466E-0.75	1450	67	55	
HF R250 17D	3x400	0.55	1.60	FIS4420E-0.75 / FIS 4466E-0.75	1450	74	62	
HF R280 17D	3x400	1.10	2.70	FIS4420E-1.5 / FIS 4466E-1.5	1450	77	66	
HF R315 15D	3x400	1.10	2.70	FIS4420E-1.5 / FIS 4466E-1.5	1450	71	62	
HF R355 15D	3x400	2.20	5	FIS4420E-2.2 / FIS 4466E-2.2 / FIS 4420E-4.0 / FIS 4466E-4.0	1450	75	66	
HF R400 15D	3x400	3	6.50	FIS4420E-2.2 / FIS 4466E-2.2 / FIS 4420E-4.0 / FIS 4466E-4.0	1450	78	69	
HF R450 15D	3x400	1.50	4	FIS4420E-1.5 / FIS 4466E-1.5	950	69	60	
HF R500 15D	3x400	3	6.90	FIS4420E-4 / FIS 4466E-4	950	71	64	

- 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



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	