HF

Centrifugal pumps

High flow

Clean water

Agricultural use

Industrial use



PERFORMANCE RANGE

- Flow rate up to:
  - **317 US g.p.m.** for the HF 6A
  - **290 US g.p.m** for the HF 6B
- Head up to:
  - **60 feet** for the HF 6A
  - **48 feet** for the HF 6B

APPLICATION LIMITS

- Manometric suction lift up to **22 feet**
- Liquid temperature between **14 °F** and **194 °F**
- Ambient temperature up to **104 °F**
- Max. working pressure:
  – **10 bar** (145 psi)
- Continuous service **S1**

CONSTRUCTION AND SAFETY STANDARDS

EN 60335-1
IEC 60335-1
CEI 61-150

EN 60034-1
IEC 60034-1
CEI 2-3

CE

CERTIFICATIONS

Company with management system certified DNV
ISO 9001: QUALITY
ISO 14001: ENVIRONMENT

INSTALLATION AND USE

Suitable for use in civil and agricultural applications. The high efficiency and continuous duty capabilities makes these pumps ideal for use in activities such as flood and spray irrigation, drawing water from lakes, rivers and wells, or for any number of different industrial applications where the characteristics of high flow rates and mid to low head are required.
The pump should be installed in an enclosed environment or sheltered from inclement weather.

OPTIONS AVAILABLE ON REQUEST

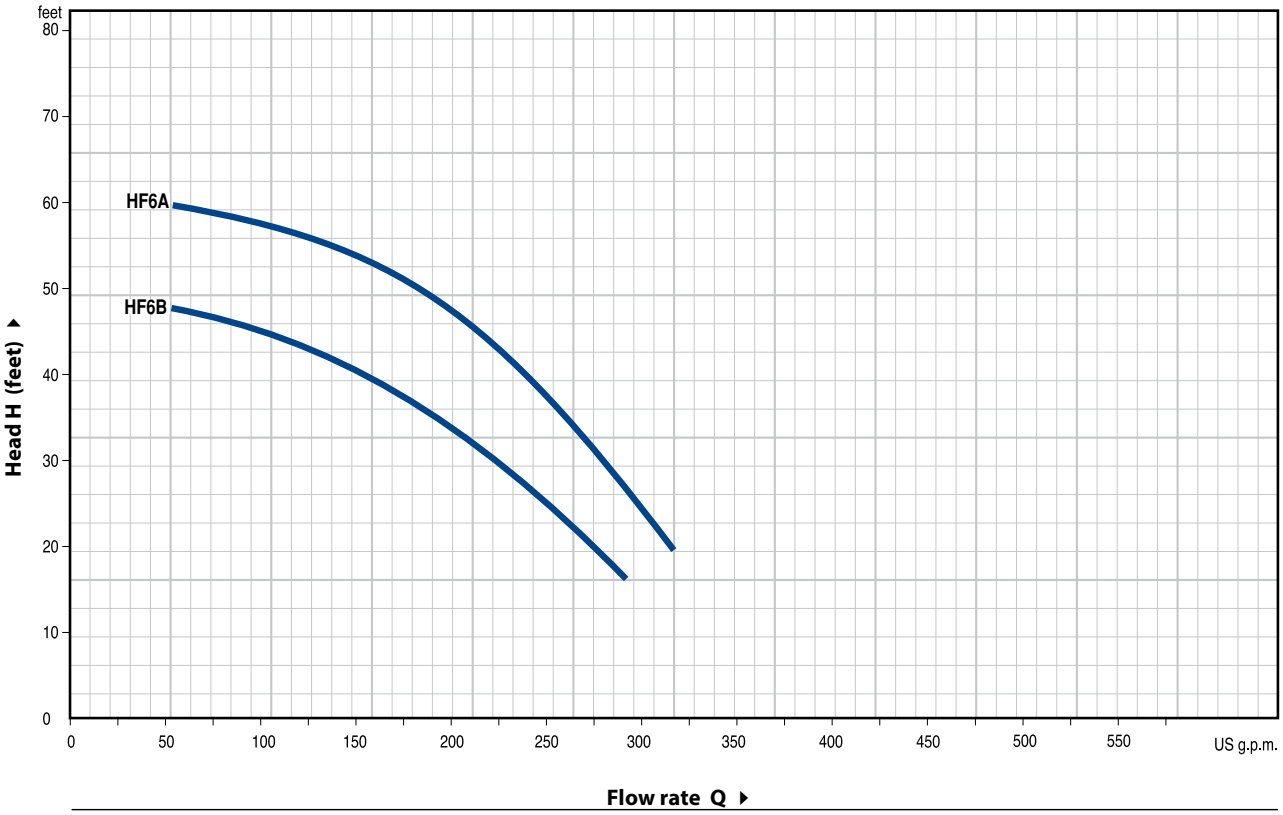
- Pump body with NPT ANSI B 1.20.1 threaded ports
- Special mechanical seal
- Other voltages

GUARANTEE

2 years subject to terms and conditions

CHARACTERISTIC CURVES AND PERFORMANCE DATA

60 Hz **n= 3450 rpm** HS= 0 m



MODEL		POWER (P2)			Q US g.p.m.	0	50	75	100	125	150	175	200	225	250	275	290	317
Single-ph.	Three-ph.	kW	HP	▲														
HFm 6B	HF 6B	1.5	2	IE3	H feet	48.2	47.6	46	45	43	40	37	33	29	25	19	16	
HFm 6A	HF 6A	2.2	3			60.7	59.3	58	57	55	53	51	48	43	37	31	27	18

Q = Flow rate **H** = Total manometric head **HS** = Suction height

▲ Performance class of the three-phase motor (IEC-60034-30)

Tolerance of characteristic curves in compliance with EN ISO 9906 Grade 3B.

POS.	COMPONENT	CONSTRUCTION CHARACTERISTICS
1	**PUMP BODY**	Cast iron complete with threaded ports in compliance with ISO 228/1
2	**BODY BACKPLATE**	Cast iron
3	**IMPELLER**	Brass HF 6
4	**MOTOR SHAFT**	Stainless steel EN 10088-3 - 1.4104

5 MECHANICAL SEAL

Pump	***Seal***	***Shaft***	*Materials*		
Model	***Model***	***Diameter***	*Stationary ring*	*Rotational ring*	*Elastomer*
HF 6	**FN-18**	**Ø 18** mm	Graphite	Ceramic	NBR

6 BEARINGS

Pump	***Model***
HF 6	**6304 ZZ / 6204 ZZ**

7 CAPACITOR

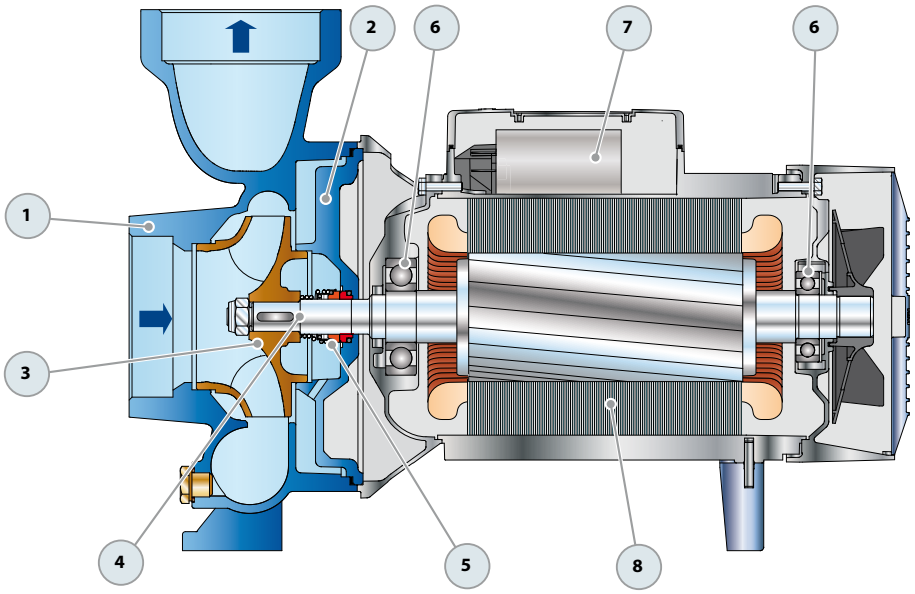
Pump	***Capacitance***	
Single-phase	***(230 V)***	***(115 V or 127 V)***
HFm 6B	**45** µF - 450 VL	**80** µF - 250 VL
HFm 6A	**50** µF - 450 VL	**–**

8 ELECTRIC MOTOR

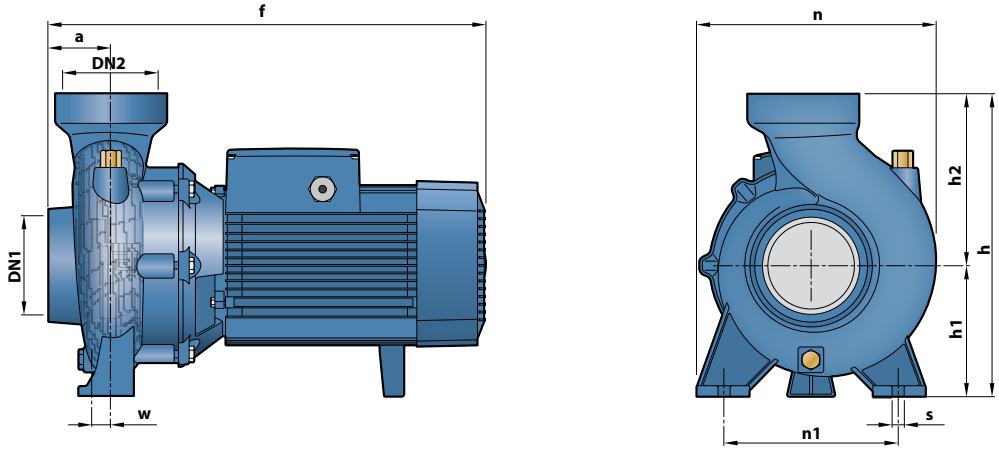
HFm: single-phase 230 V - 60 Hz with thermal overload protector incorporated into the winding.
HF: three-phase 230/460 V - 60 Hz.

➠ **The three-phase pumps are fitted with high performance motors in class IE3 (IEC 60034-30)**

– Insulation: class F
– Protection: IP X4



DIMENSIONS AND WEIGHT



MODEL		PORTS in		DIMENSIONS mm									lb	
Single-phase	Three-phase	DN1	DN2	a	f	h	h1	h2	n	n1	w	s	1~	3~
HFm 6B	HF 6B	3"	3"	68	411		120	192	240		6	12	**26.5**	**25.5**
HFm 6A	HF 6A				441/411								**29.2**	**26.7**

ABSORPTION

MODEL	VOLTAGE		
Single-phase	230 V	115 V	127 V
HFm 6B	**12.0** A	**24.0** A	**22.3** A
HFm 6A	**14.5** A	–	–

MODEL	VOLTAGE			
Three-phase	230 V	380 V	230 V	460 V
HF 6B	**8.6** A	**5.0** A	**7.6** A	**4.2** A
HF 6A	**10.7** A	**6.2** A	**9.0** A	**4.8** A