

High flow rates



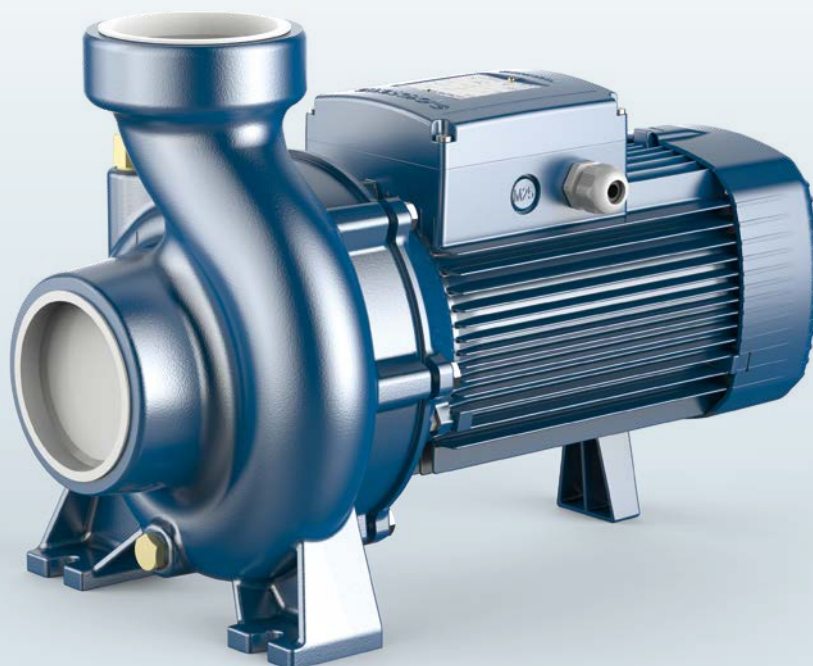
Clean water



Agricultural use



Industrial use



PERFORMANCE RANGE

- Flow rate up to **2400 l/min** (144 m³/h)
- Head up to **24.5 m**

INSTALLATION AND USE

Designed for civil and agricultural use.

Their high-efficiency levels and capability for continuous operation make them an ideal choice for furrow and sprinkler irrigation, in addition to drawing water from lakes, rivers, and wells. They are also suitable for a wide range of industrial applications that require substantial flow rates at medium-low head pressures.

ELECTRIC MOTOR

The three-phase pumps are equipped with newly developed electric motors designed to work with inverters, which guarantee stable and quiet operation.

Efficiency class **IE3** for three-phase motors and **IE2** for single-phase motors, with class F insulation and IPX4 protection.

APPLICATION LIMITS

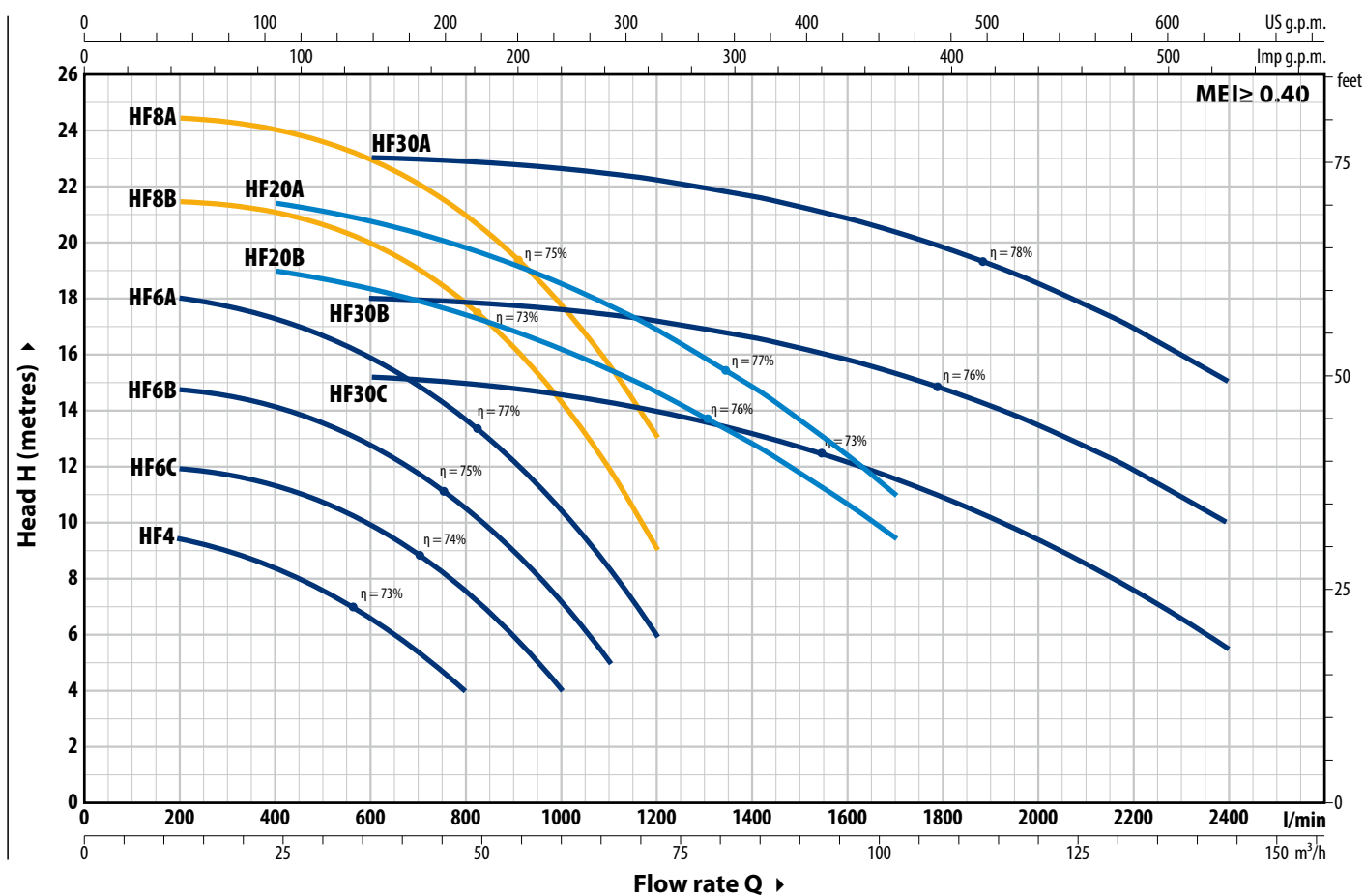
- Manometric suction head up to **7 m**
- Liquid temperature between **-10 °C** and **+90 °C**
- Ambient temperature up to **+40 °C**
- Maximum working pressure:
 - **6 bar** for HF 4
 - **10 bar** for HF 6-8-20-30

AVAILABLE UPON REQUEST

- ✗ Mechanical seal options available
- ✗ Different voltage requirements 60 Hz frequency

CURVES AND PERFORMANCE DATA – HS=0 m

50 Hz



TYPE		POWER (P ₂)		1~	3~	Q	m³/h	0	12	18	24	30	36	42	48	60	66	72	102	114	144
Single-ph.	Three-ph.	kW	HP				l/min	0	200	300	400	500	600	700	800	1000	1100	1200	1700	1900	2400
HFm 4	HF 4	0.75	1	IE2	IE3	H meters	9.8	9.5	9	8.5	7.6	6.6	5.4	4							
HFm 6C	HF 6C	1.1	1.5				12	12	11.8	11.4	10.8	10	9	7.6	4						
HFm 6B	HF 6B	1.5	2				14.8	14.8	14.6	14.2	13.6	12.8	11.8	10.5	7.2	5					
HFm 6A	HF 6A	2.2	3				18.5	18	17.8	17.4	16.8	16	15	13.7	10.4	8.4	6				
—	HF 8B	3	4				21.5	21.5	21.4	21	20.7	20	19	17.8	14.3	12	9				
—	HF 8A	4	5.5				24.5	24.5	24.4	24	23.6	23	22	21	17.7	15.6	13				
—	HF 20B	3	4				19.5	-	-	19	18.8	18.4	18	17.5	16.2	15.5	14.7	9.5			
—	HF 20A	4	5.5				22	-	-	21.5	21.2	20.9	20.5	19.9	18.6	17.8	17	11			
	HF 30C	4	5.5				15.5	—	—	—	—	15.2	15	15	14.5	14.3	14	11.6	10.2	5.5	
—	HF 30B	5.5	7.5				18	—	—	—	—	18	17.9	18	17.6	17.4	17.2	15.3	14.2	10	
—	HF 30A	7.5	10				23	—	—	—	—	23	23	22.8	22.6	22.4	22.2	20.4	19.2	15	

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

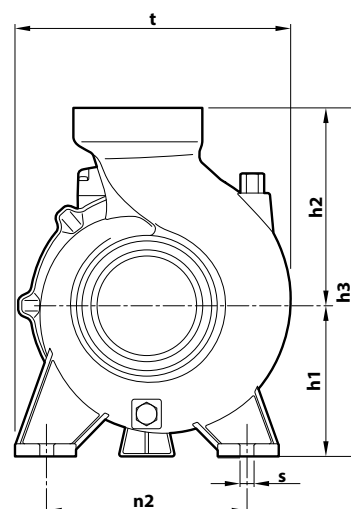
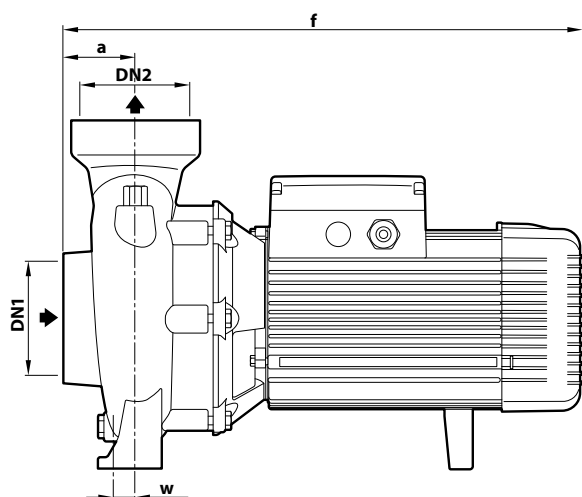
Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

ABSORPTION

TYPE	VOLTAGE
Single-ph.	230 V
HFm 4	5.9 A
HFm 6C	8.8 A
HFm 6B	10.4 A
HFm 6A	13.5 A

TYPE	VOLTAGE			
Three-ph.	230 V - Δ	400 V - ˆ	400 V - Δ	690 V - ˆ
HF 4	4.3 A	2.5 A	–	–
HF 6C	6.2 A	3.6 A	–	–
HF 6B	7.8 A	4.5 A	–	–
HF 6A	9.0 A	5.2 A	–	–
HF 8B	13.0 A	7.5 A	–	–
HF 8A	15.7 A	9.1 A	–	–
HF 20B	14.5 A	8.4 A	–	–
HF 20A	16.0 A	9.2 A	–	–
HF 30C	16.6 A	9.6 A	–	–
HF 30B	–	–	12.3 A	7.1 A
HF 30A	–	–	16.5 A	9.5 A

DIMENSIONS AND WEIGHT



TYPE		PORTS		DIMENSIONS mm									kg		
Single-phase	Three-phase	DN1	DN2	a	f	h1	h2	h3	t	n2	w	s	1~	3~	
HFm 4	HF 4	2½"	2½"	47	317	97	143	240	198	155	63	10	14.5	14.5	
HFm 6C	HF 6C	3"	3"	68	406	120	190	310	240	178	9	12	25.7	25.7	
HFm 6B	HF 6B												26.8	26.8	
HFm 6A	HF 6A				426				236				29.6	29.6	
—	HF 8B	4"	4"	80	477	132	180	312	245	190	27	14	—	37.6	
—	HF 8A												—	41.0	
—	HF 20B												—	37.6	
—	HF 20A			483	257	—	41.0								
—	HF 30C			96	516	160	210	370	294				212	—	53.4
—	HF 30B													—	58.0
—	HF 30A				566									—	52.0

MATERIALS AND COMPONENTS

1 Pump body Cast iron with ISO 228/1 threaded ports

2 Cover Cast iron (**AISI 304** stainless steel for HF 4)

3 Impeller Stainless steel **AISI 304** for HF 4-6-8-20
Cast iron for HF 30

4 Mechanical seal	Water pump	Seal	Shaft	Materials
	HF 4	AR-14	Ø 14 mm	Ceramic / Graphite / NBR
	HF 6	FN-18	Ø 18 mm	Graphite / Ceramic / NBR
	HF 8, HF 20, HF 30	FN-24	Ø 24 mm	Graphite / Ceramic / NBR

5 Motor shaft Stainless steel **AISI 431**

6 Electric motor **HFm**: single-phase 230 V - 50 Hz with winding integrated thermal motor protection
HF: three-phase 230/400 V - 50 Hz up to 4 kW
 400/690 V - 50 Hz from 5.5 to 7.5 kW.
 ※ Pumps are equipped with high-efficiency motors (IEC 60034-30-1)
 class **IE2** for single-phase models
 class **IE3** for three-phase models
 Continuous running duty **S1**

