

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.

APPLICATION LIMITS

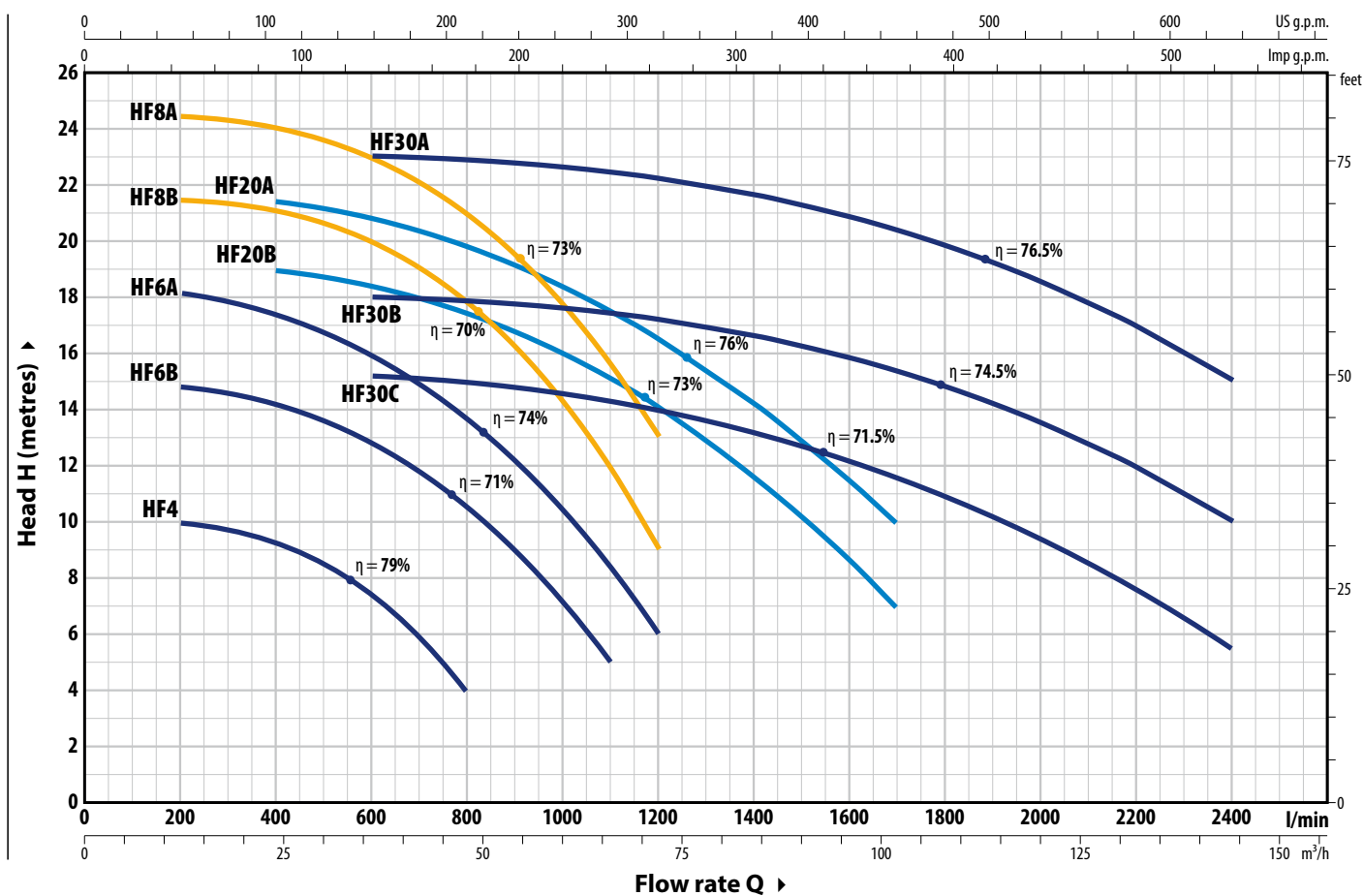
- Manometric suction head up to **7 m**
- Liquid temperature between **-10 °C** and **+90 °C**
- Ambient temperature up to **+40 °C**
- Maximum working pressure:
 - **6 bar** for HF 4
 - **10 bar** for HF 6-8-20-30

AVAILABLE UPON REQUEST

- ✗ Mechanical seal options available
- ✗ Different voltage or frequency

CURVES AND PERFORMANCE DATA – HS=0 m

60 Hz



MODEL		POWER (P ₂)			Q	m³/h	0	12	24	36	48	60	66	72	87	102	114	129	144	
Single-ph.	Three-ph.	kW	HP	▲		l/min	0	200	400	600	800	1000	1100	1200	1450	1700	1900	2150	2400	
HFm 4	HF 4	0.75	1	IE3	H m	10	10	9.3	7.4	4										
HFm 6B	HF 6B	1.5	2			14.8	14.8	14.2	12.8	10.5	7.2	5								
HFm 6A	HF 6A	2.2	3			18.5	18.1	17.4	16	13.7	10.4	8.4	6							
–	HF 8B	3	4			21.5	21.5	21.1	20	17.8	14.3	11.9	9							
–	HF 8A	4	5.5			24.5	24.5	24.1	23	21	17.7	15.6	13							
–	HF 20B	3	4			19	–	19	18.4	17.5	16.1	15.2	14.2	11	7					
–	HF 20A	4	5.5			21.5	–	21.5	20.9	19.9	18.5	17.6	16.6	13.7	10					
–	HF 30C	4	5.5			15.5	–	–	15.2	15.0	14.5	14.3	14.0	13.0	11.6	10.2	8.0	5.5		
–	HF 30B	5.5	7.5			18	–	–	18	17.9	17.6	17.4	17.2	16.4	15.3	14.2	12.3	10		
–	HF 30A	7.5	10			23	–	–	23	22.9	22.6	22.4	22.2	21.4	20.4	19.2	17.3	15		

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

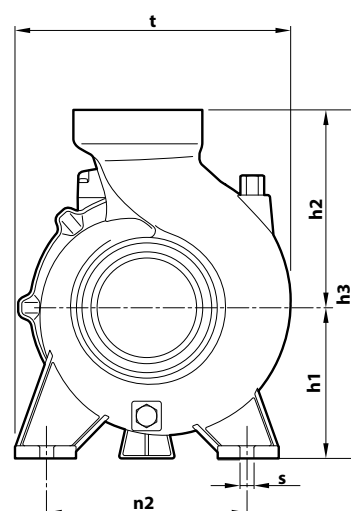
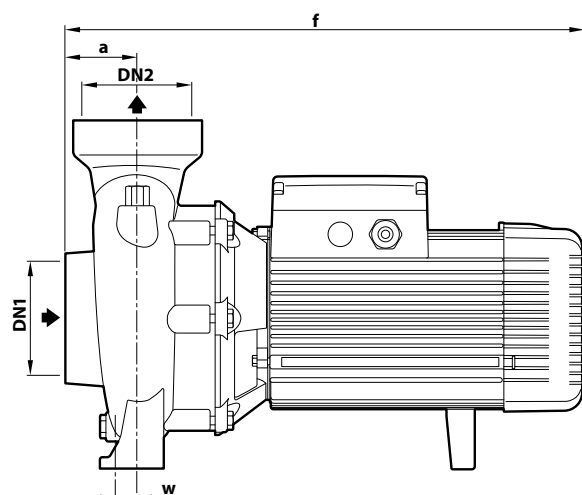
Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

ABSORPTION

TYPE	VOLTAGE	
	220 V	110 V
HFm 4	5.8 A	11.6 A
HFm 6B	12.0 A	–
HFm 6A	13.0 A	–

TYPE	VOLTAGE			
	220 V - Δ	380 V - 人	220 V - Δ	440 V - 人
HF 4	4.5 A	2.6 A	3.8 A	2.1 A
HF 6B	7.8 A	4.5 A	6.9 A	4.1 A
HF 6A	9.5 A	5.5 A	8.5 A	4.8 A
HF 8B	12.0 A	7.0 A	12.1 A	6.5 A
HF 8A	18.2 A	10.5 A	18.5 A	12.0 A
HF 30C	16.4 A	9.5 A	13.8 A	8.0 A
HF 20B	19.4 A	11.2 A	17.3 A	10.3 A
HF 20A	19.9 A	11.5 A	17.3 A	10.3 A
HF 30B	22.5 A	13.0	20.1 A	11.8 A
HF 30A	28.8 A	16.6 A	26.0 A	16.0 A

DIMENSIONS AND WEIGHT



TYPE		PORTS		DIMENSIONS mm									kg							
Single-ph.	Three-ph.	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 6B	HF 6B	3"	3"	68	408	120	190	310	240	178	5	12	26.8	26.8						
HFm 6A	HF 6A				428								29.6	29.6						
—	HF 8B	4"	4"	71	474	132	180	312	245	190	27	14	—	37.6						
—	HF 8A				479				255				—	41.0						
—	HF 20B												—	37.6						
—	HF 20A			96.5		517	160	210	370	292	212	27	14	—	41.0					
—	HF 30C													—	53.4					
—	HF 30B					497								—	52.0					
—	HF 30A			76.5	547	—								58.0						

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
Brass for HF 8
Cast iron for HF 20, 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	FN-20	Ø 20 mm	Graphite / Ceramic / NBR
	HF 30	FN-24	Ø 24 mm	Graphite / Ceramic / NBR

5 Motor shaft Stainless steel **AISI 431**

6 Electric motor **HFm**: single-phase 220 V - 60 Hz with winding integrated thermal motor protection
HF: three-phase 220/380 V - 60 Hz or 220/240 V - 60 Hz.
– The three-phase pump is fitted with a high performance motor in class IE3 (IEC 60034-30-1)
– Continuous running duty S1

