High flow rates





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

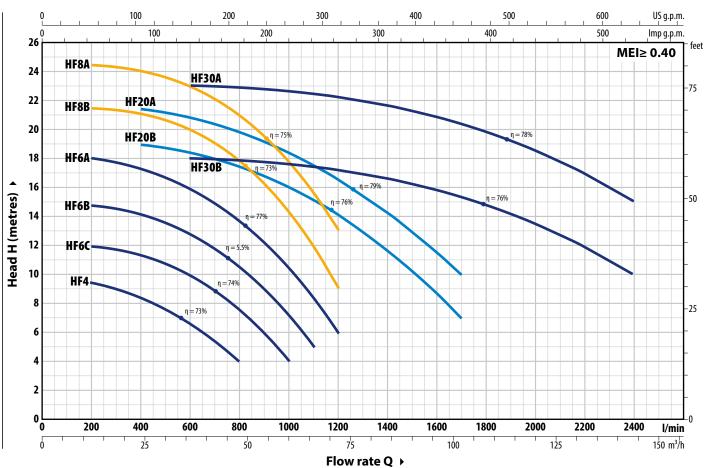
- Manometric suction head up to 7 m
- Liquid temperature between -10 °C and +90 °C
- Ambient temperature up to +40 °C
- Maximum working pressure:
 - 6 bar for HF 4
 - 10 bar for HF 6-8-20-30

AVAILABLE UPON REQUEST

X Mechanical seal options available

※ Different voltage requirements 60 Hz frequency





CURVES AND PERFORMANCE DATA – HS=0 m

50 Hz

ТҮ	TYPE		R (P2)			_ m³/h	0	12	18	24	30	36	42	48	60	66	72	102	114	144
Single-ph.	Three-ph.	kW	HP	1~	3~	Q 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		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	1			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	IE2		H metres	24.5	24.5	24.4	24	23.6	23	22	21	17.7	15.6	13			
-	HF 20B	3	4				19	1.5 21.5 21.4 21 20.7 4.5 24.5 24.4 24 23.6 19 - - 19 18.8 1	18.4	18	17.5	16	15.2	14.2	7					
-	HF 20A	4	5.5				21.5	-	-	21.5	21.3	21	20.5	20	18.5	17.6	16.6	10		
-	HF 30B	5.5	7.5	1			18	-	-	_	-	18	17.9	18	17.6	17.4	17.2	15.3	14.2	10
-	HF 30A	7.5	10	1			23	-	-	_	_	23	23	22.8	22.6	22.4	22.2	20.4	19.2	15

 $\mathbf{Q} = Flow rate \ \mathbf{H} = Total manometric head \ \mathbf{HS} = Suction height$

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

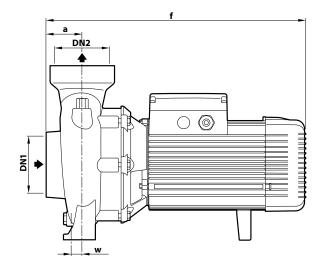
HF Technical data

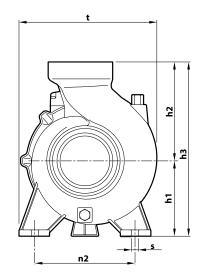
ABSORPTION

ТҮРЕ	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 - 🛆	400 V - ㅅ	400 V - 🛆	690 V - ㅅ						
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	14.7 A	8.5 A	_	_						
HF 20A	15.2 A	8.8 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-ph.	Three-ph.	DN1	DN2	a	f	h1	h2	h3	t	n2	w	s	1~	3~
HFm 4	HF 4	21⁄2"	2½ "	47	317	97	143	240	198	155	-63	10	14.5	14.5
HFm 6C	HF 6C	3"		68	408	120	190	310	240	178	5	12	25.7	25.7
HFm 6B	HF 6B		3"										26.8	26.8
HFm 6A	HF 6A				428								29.6	29.6
-	HF 8B				474		180	312	245 255	- 190	27	14	-	37.6
-	HF 8A			71	474	132							-	41.0
-	HF 20B		A 11										-	37.6
-	HF 20A	4"	4"										-	41.0
-	HF 30B			76.5	497	160	210	370	292	212	27		-	52.0
-	HF 30A				547							14	-	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 / Brass for HF 8 Cast iron for HF		4-6							
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 A	AISI 431								
6	 5 Electric motor HFm: single-phase 230 V - 50 Hz with winding integrated thermal motor prot 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 er	auipped with h	iah-efficiency r	motors (IEC 60034-30-1)						
		class IE2 for	single-phase n three-phase m	nodels							
		Continuous run									

