

# HF

**centrifugal pumps**  
(high flow)



**HF 6AR**



## PERFORMANCE RANGE

Flow rate up to 1800 l/min (108 m<sup>3</sup>/h)  
Dynamic head up to 24.5 m

## OPERATING LIMITS

Suction lift up to 7 m  
Fluid temperature up to + 60°C  
Maximum ambient temperature + 40°C

## CONSTRUCTION AND SAFETY STANDARDS:

EN 60 335-1	EN 60034-1
IEC 335-1	IEC 34-1
CEI 61-150	CEI 2-3

## PUMP INSTALLATION AND APPLICATIONS

**HF** pumps are specifically designed for **domestic, agricultural and industrial** use.

Their performance levels, mechanical design and structural materials are explicitly selected for these uses.

The shapes of their volutes and impellers, with ample passages, make them suitable for pumping even fairly dirty water.

THEY CAN ACHIEVE HIGH DELIVERY RATES UNDER CONTINUOUS OR HEAVY DUTY, MAKING THEM ADVANTAGEOUS FOR RAIN AND GRAVITY IRRIGATION, FOR PUMPING WATER FROM LAKES, RIVERS, WELLS AND FOR A WIDE VARIETY OF INDUSTRIAL USES WHERE HIGH DELIVERY RATES MUST BE ACHIEVED AT LOW TO AVERAGE HEADS.

The pumps should be installed in a covered area, protected against weather.

## WARRANTY: 2 YEARS

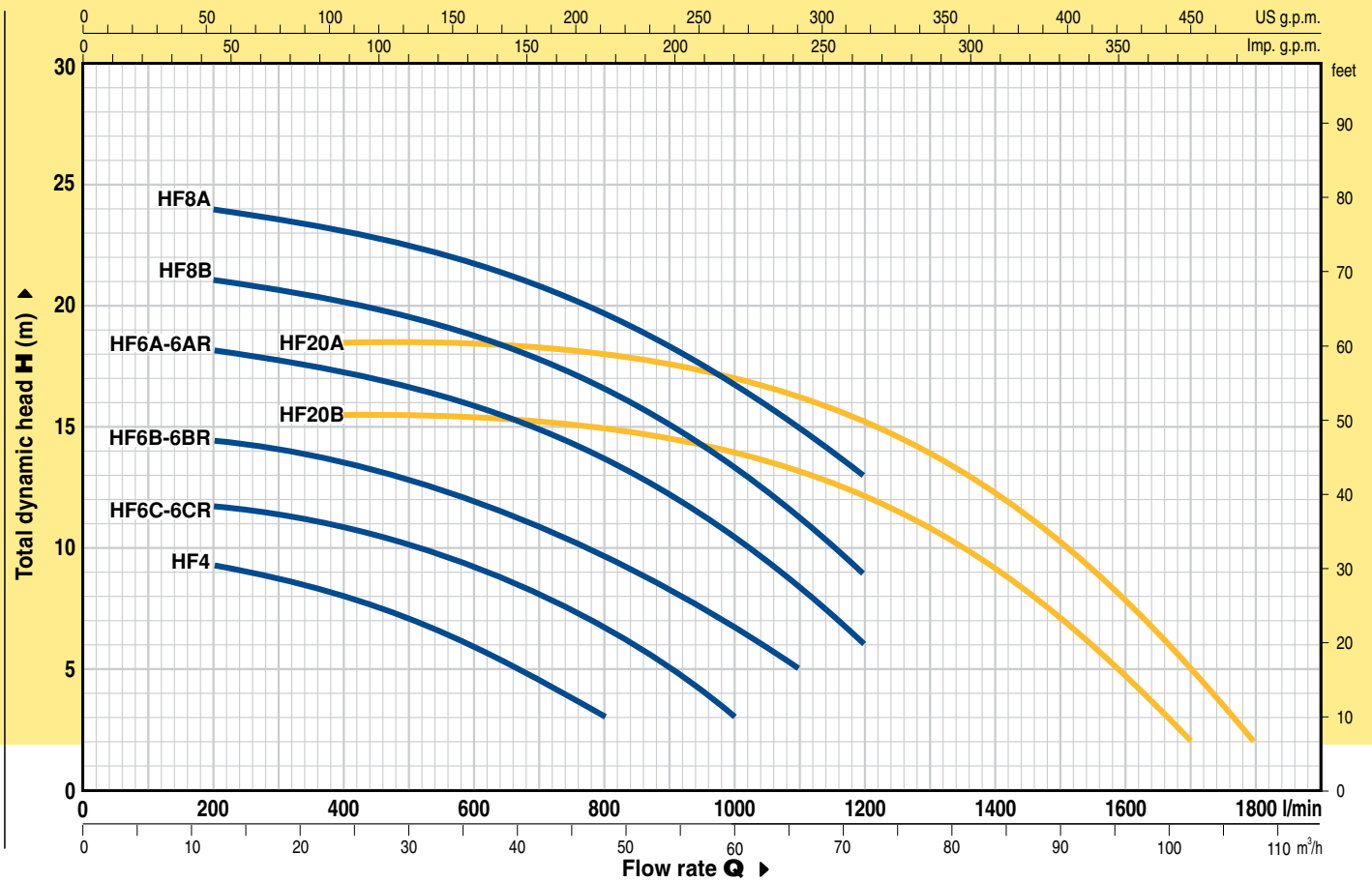
(according to our general sales conditions).

## STRUCTURAL CHARACTERISTICS

- **PUMP BODY:** cast iron, with UNI ISO 228/1 gas threaded suction and delivery **OPENINGS**.
- **IMPELLER:** brass, centrifugal radial flow type.
- **MOTOR SHAFT:** AISI 430F stainless steel.
- **MECHANICAL SEAL:** ceramic and graphite.
- **MOTOR:** the pumps are coupled to an asynchronous, high efficiency PEDROLLO induction motor of suitable size, which is quiet, closed and externally ventilated, suitable for continuous duty. **INSULATION** class F (B up to 0.75 kW).  
**The thermal cutout relay (motor protector) is incorporated in single phase motors up to 1.5 kW.**  
The remaining single phase motors and all three phase motors require an adequate external motor protector, and connections are to be according to current standards.
- **PROTECTION:** IP 44.



### PERFORMANCE CHART AT n= 2900 1/min

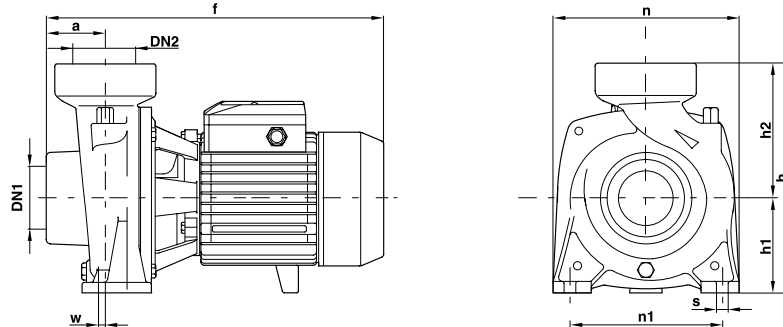


### PERFORMANCE DATA AT n= 2900 1/min

PUMP MODEL		POWER		Q m³/h	H																			
Single phase	Three phase	kW	HP		l/min	0	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108
HFm 4	HF 4	0.75	1		10	9.8	9.3	8.7	8	7	6	4.7	3											
HFm 6C	HF 6C	1.1	1.5		11.9	—	11.7	11.3	10.7	10.2	9.2	8	6.7	5	3									
HFm 6B	HF 6B	1.5	2		14.7	—	14.5	14	13.5	12.8	12	11	9.7	8.2	6.7	5								
—	HF 6A	2.2	3		18.5	—	18.1	17.8	17.2	16.8	16	15	13.8	12.2	10.5	8.3	6							
HFm 6CR	HF 6CR	1.1	1.5		11.9	—	11.7	11.3	10.7	10.2	9.2	8	6.7	5	3									
HFm 6BR	HF 6BR	1.5	2		14.7	—	14.5	14	13.5	12.8	12	11	9.7	8.2	6.7	5								
HFm 6AR	HF 6AR	2.2	3		18.5	—	18.1	17.8	17.2	16.8	16	15	13.8	12.2	10.5	8.3	6							
HFm 8B	HF 8B	3	4		21.5	—	21	20.7	20	19.5	18.8	17.8	16.5	15	13.5	11.2	9							
—	HF 8A	4	5.5		24.5	—	24	23.5	23	22.5	21.8	20.8	19.5	18.3	16.8	15	13							
HFm 20B	HF 20B	3	4		16	—	—	—	15.5	15.4	15.3	15.2	15	14.5	14	13	12	10.7	9	7	4.8	2		
—	HF 20A	4	5.5		19	—	—	—	18.5	18.4	18.3	18.2	18	17.5	17	16.2	15.2	13.7	12	10	7.8	5	2	

Q = FLOW RATE H = TOTAL DYNAMIC HEAD IN METERS

Curve tolerance according to ISO 2548.



### DIMENSIONS

PUMP MODEL		DN1	DN2	DIMENSIONS mm								
Single phase	Three phase			a	f	h	h1	h2	n	n1	w	s
HFm 4	HF 4	2 1/2"	2 1/2"	55	323	240	97	143	190	155	-	10
HFm 6C	HF 6C	3"	3"	68	385	312	120	192	240	190	6	12
HFm 6B	—	3"	3"	68	405	312	120	192	240	190	6	12
—	HF 6B	3"	3"	68	385	312	120	192	240	190	6	12
—	HF 6A	3"	3"	68	405	312	120	192	240	190	6	12
HFm 6CR	HF 6CR	4"	4"	70	387	312	120	192	240	190	6	12
HFm 6BR	—	4"	4"	70	407	312	120	192	240	190	6	12
—	HF 6BR	4"	4"	70	387	312	120	192	240	190	6	12
—	HF 6AR	4"	4"	70	430	312	120	192	240	190	6	12
HFm 8B	—	4"	4"	70	407	312	120	192	240	190	6	12
—	HF 8B	4"	4"	80	475	312	132	180	245	190	30	14
—	HF 8A	4"	4"	80	429	312	132	180	245	190	30	14
—	HF 8A	4"	4"	80	475	312	132	180	245	190	30	14
HF m20B	—	4"	4"	80	475	312	132	180	245	190	30	14
—	HF 20B	4"	4"	80	429	312	132	180	245	190	30	14
—	HF 20A	4"	4"	80	475	312	132	180	245	190	30	14