



# HF Centrifugal Pump



## Application

These pumps are suitable for handling clean water not containing abrasive particles and fluids which are not chemically aggressive to the pump components. They are extremely reliable, simple to use, quiet and virtually maintenance-free, finding many uses in domestic and civil applications, and in particular the automatic distribution of water from small and medium-sized surge tanks, transferring water, watering gardens, etc.

## Performance Range

- HF-5**  
Flow rate up to 600L/min(36m³/h)  
Head up to 23m
- HF-6**  
Flow rate up to 1300L/min(78m³/h)  
Head up to 22m
- HF-6R**  
Flow rate up to 1300L/min(78m³/h)  
Head up to 22m
- HF-129**  
Flow rate up to 500L/min(30m³/h)  
Head up to 22.5m

## Operating Condition

- Suction lift up to 9m
- Fluid temperature up to 60°C
- Maximum ambient temperature 40°C

## Standard Data And Equipment

Single phase 220V/50Hz. Brass impeller, carbon steel motor shaft, with thermal protector inside. Other model and material such as three phase, 110V, 60Hz, dual voltage, stainless shaft, etc. will be available upon request.

## Performance Table

Model	Power		H.Max	Q.Max	Size	S.Head	Packing
	kW	HP	m	L/min	Inch	m	Qty
HF-5C	0.6	0.8	12.5	400	2"×2"	9	1600
HF-5B	0.75	1	14	500	2"×2"	9	1600
HF-5A	1.1	1.5	14.5	600	2"×2"	9	1600
HF-5BM	1.1	1.5	20	500	2"×2"	9	1200
HF-5AM	1.5	2	22.5	500	2"×2"	9	1200

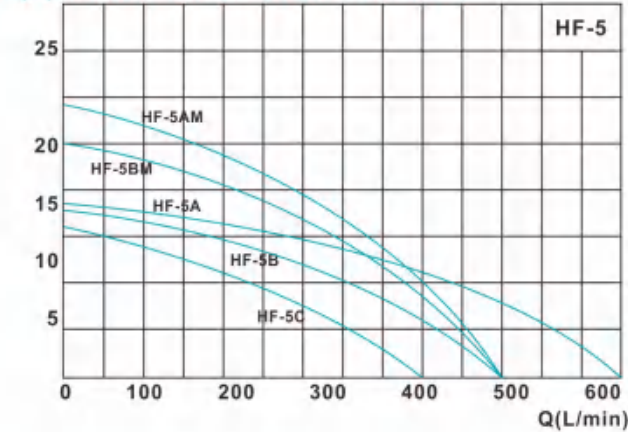
Model	Power		H.Max	Q.Max	Size	S.Head	Packing
	kW	HP	m	L/min	Inch	m	Qty
HF-6D	1.1	1.5	12	1000	3"×3"	9	850
HF-6C	1.5	2	15	1100	3"×3"	9	850
HF-6B	2.2	3	18.5	1200	3"×3"	9	750
HF-6A	3	4	22	1300	3"×3"	9	750

Model	Power		H.Max	Q.Max	Size	S.Head	Packing
	kW	HP	m	L/min	Inch	m	Qty
HF-6DR	1.1	1.5	12	1000	4"×4"	9	820
HF-6CR	1.5	2	15	1100	4"×4"	9	820
HF-6BR	2.2	3	18.5	1200	4"×4"	9	720
HF-6AR	3	4	22	1300	4"×4"	9	720

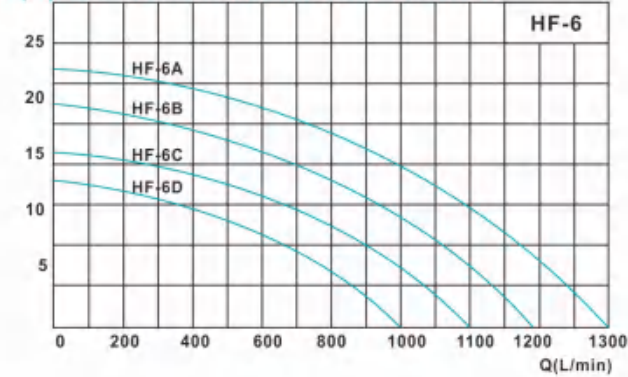
Model	POWER		H.Max	Q.Max	Size	S.Head	Packing
	kW	HP	m	L/min	Inch	m	Qty
HF-129B	1.1	1.5	20	500	2"×2"	9	1200
HF-129A	1.5	2	22.5	500	2"×2"	9	1200



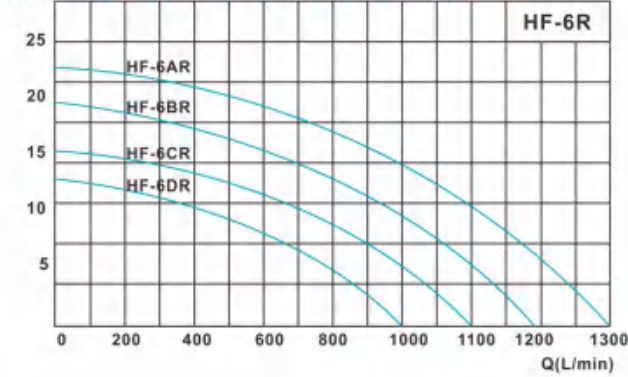
H(m) PERFORMANCE CHART AT n=2850RPM



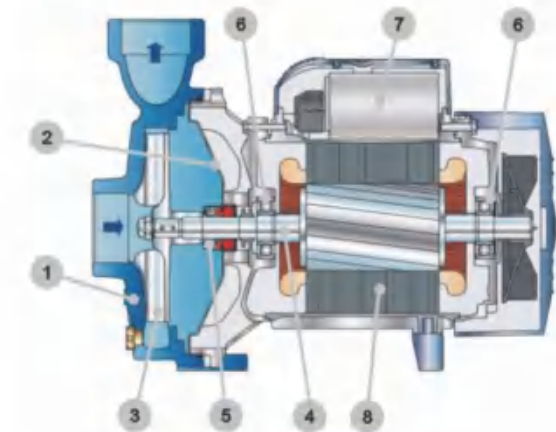
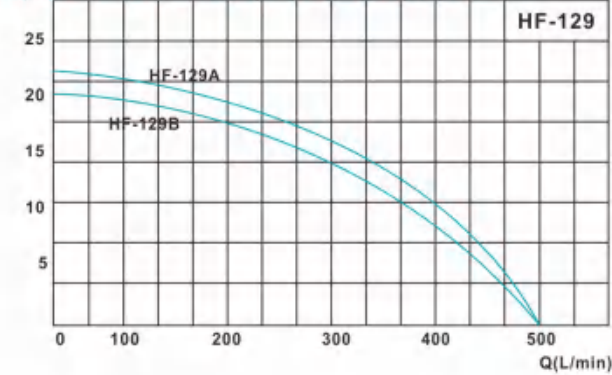
H(m) PERFORMANCE CHART AT n=2850RPM



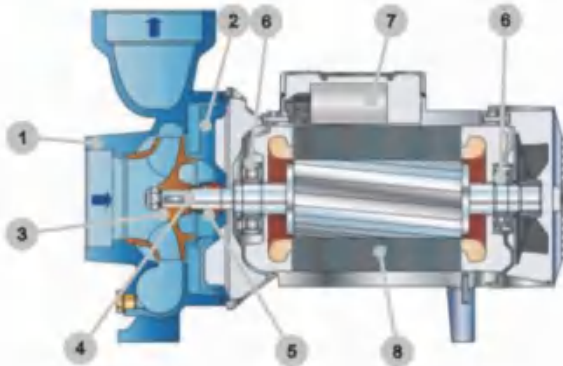
H(m) PERFORMANCE CHART AT n=2850RPM



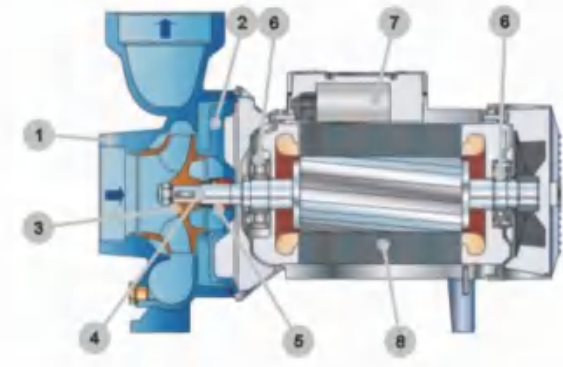
H(m) PERFORMANCE CHART AT n=2850RPM



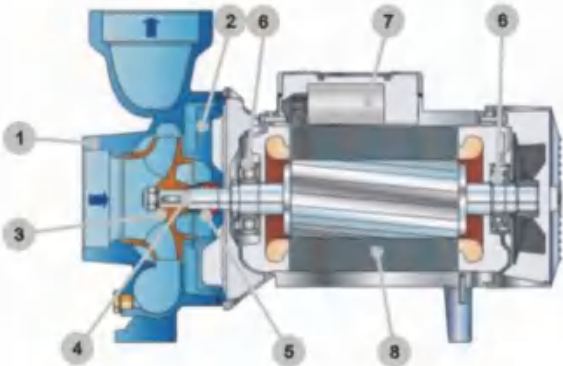
POS.COMPONENT	CONSTRUCTION CHARACTERISTICS				
1 PUMP BODY	Cast iron, complete with threaded ports in compliance with ISO228/1				
2 MOTOR BACKPLATE	Stainless steel AISI 304				
3 IMPELLER	Stainless steel AISI 304				
4 MOTOR SHAFT	Stainless steel AISI 304 EN 10088-3-1.4104				
5 MECHANICAL SEAL	Pump	Shaft	Materials		
	Model	Diameter	Stationary ring	Rotational ring	Elastomer
	AR-14	Φ14mm	Ceramic	Graphite	NBR
6 BEARINGS	6202 ZZ/6202 ZZ				
7 CAPACITOR	Pump	Capacitance			
	Single-phase	(230V or 240V)		(110V)	
	HF-5B	20μF 450 VL	30μF 300VL		
8 ELECTRIC MOTOR	HF: single-phase 230 V-50 Hz with thermal overload protector built-in to the winding.				
	HF: three-phase 230/400 V-50 Hz				
	Pumps fitted with the three-phase motor option offer IE2(IEC 60034-30) class high performance.				
	-Insulation: F class.				
	-Protection: IP X4.				



POS.COMPONENT	CONSTRUCTION CHARACTERISTICS					
1 PUMP BODY	Cast iron, complete with threaded ports in compliance with ISO228/1					
2 MOTOR BACKPLATE	Cast iron, (stainless steel AISI 304 for HF 4)					
3 IMPELLER	Brass for HF6D,6C,6B Cast iron for HF 6A					
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 6D-C	AR-18	Ø18mm	Graphite	Ceramic	NBR
	HF 6B	AR-20	Ø20mm	Graphite	Ceramic	NBR
	HF 6A	AR-24	Ø24mm	Graphite	Ceramic	NBR
	Pump	Model				
6 BEARINGS	HF 6D-C	6303 ZZ/6203 ZZ				
	HF 6B	6204 ZZ/6204 ZZ				
	HF 6A	6306 ZZ/6206 ZZ				
	Pump	Capacitance				
7 CAPACITOR	Single-phase	(230V or 240V)		(110V)		
	HF-6D	31.5µF 450 V/L		60µF 250V/L		
	HF-6B	45µF 450 V/L		80µF 250V/L		
8 ELECTRIC MOTOR	HFm: single-phase 230 V-50 Hz with thermal overload protector built-in to the winding.					
	HF: three-phase 230/400 V-50 Hz up to 4kW, 400/690 V-50 Hz from 5.5 to 7.5kW					
	Pumps fitted with the three-phase motor option offer IE2(IEC 60034-30) class high performance					
	-Insulation: F class.					
	-Protection: IP X4.					



POS.COMPONENT	CONSTRUCTION CHARACTERISTICS					
1 PUMP BODY	Cast iron, complete with threaded ports in compliance with ISO228/1					
2 MOTOR BACKPLATE	Cast iron, (stainless steel AISI 304 for HF 4)					
3 IMPELLER	Brass for HF6DR,6CR,6BR,6AR Cast iron for HF 30					
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 6DR-CR	AR-18	Ø18mm	Graphite	Ceramic	NBR
	HF 6BR	AR-20	Ø20mm	Graphite	Ceramic	NBR
	HF 6AR	AR-24	Ø24mm	Graphite	Ceramic	NBR
	Pump	Model				
6 BEARINGS	HF 6DR-CR	6203 ZZ/6203 ZZ				
	HF 6BR	6304 ZZ/6204 ZZ				
	HF 6AR	6306 ZZ/6206 ZZ				
	Pump	Capacitance				
	Single-phase	(230V or 240V) (110V)				
7 CAPACITOR	HF-6DR	31.5µF 450 VL		60µF 250VL		
	HF-6BR	45µF 450 VL		80µF 250VL		
	HFm single-phase 230 V-50 Hz with thermal overload protector built-in to the winding. HF: three-phase 230/400 V-50 Hz up to 4kW, 400/690 V-50 Hz from 5.5 to 7.5kW Pumps fitted with the three-phase motor option offer IE2(IEC 60034-30) class high performance -Insulation: F class. -Protection: IP X4.					
8 ELECTRIC MOTOR						



POS.COMPONENT	CONSTRUCTION CHARACTERISTICS					
1 PUMP BODY	Cast iron, complete with threaded ports in compliance with ISO228/1					
2 MOTOR BACKPLATE	Cast iron					
3 IMPELLER	Brass for HF 129B Cast iron for HF 129A					
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 129A-129B	AR-18	Ø18mm	Graphite	Ceramic	NBR
6 BEARINGS	Pump	Model				
	HF 129A-129B	6303 ZZ/6203 ZZ				
7 CAPACITOR	Pump	Capacitance				
	Single-phase	(230V or 240V)	(110V)			
	HF-129B	31.5µF 450 VL	60µF 250VL			
	HF-129A	45µF 450 VL	80µF 250VL			
	HF: single-phase 230 V-50 Hz with thermal overload protector built-in to the winding. HF: three-phase 230/400 V-50 Hz up to 4kW, 400/690 V-50 Hz from 5.5 to 7.5kW Pumps fitted with the three-phase motor option offer IE2(IEC 60034-30) class high performance -Insulation: F class. -Protection: IP X4.					
8 ELECTRIC MOTOR						