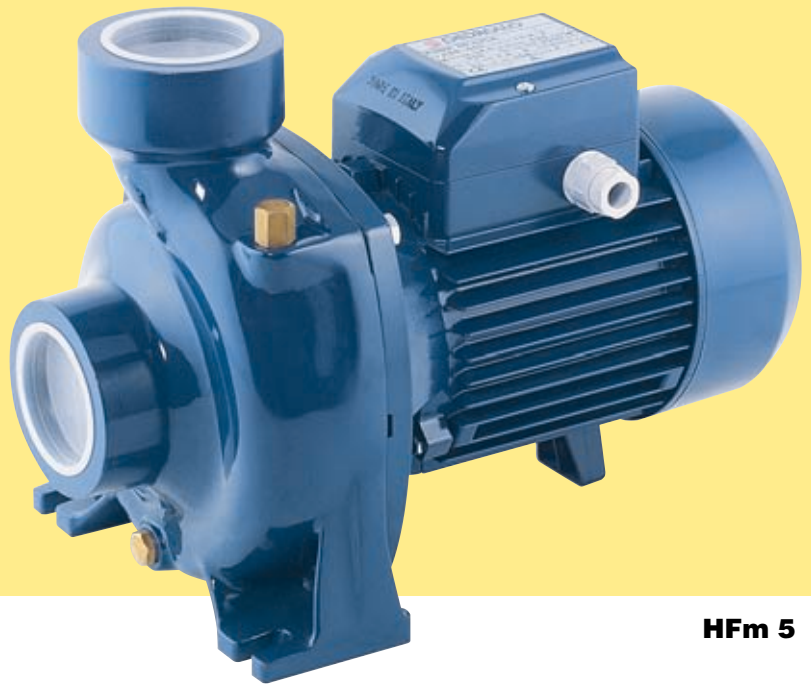


HF

centrifugal pumps
(medium flow)



HFm 5



PERFORMANCE RANGE

Flow rate up to 600 l/min (36 m³/h)
Dynamic head up to 39 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

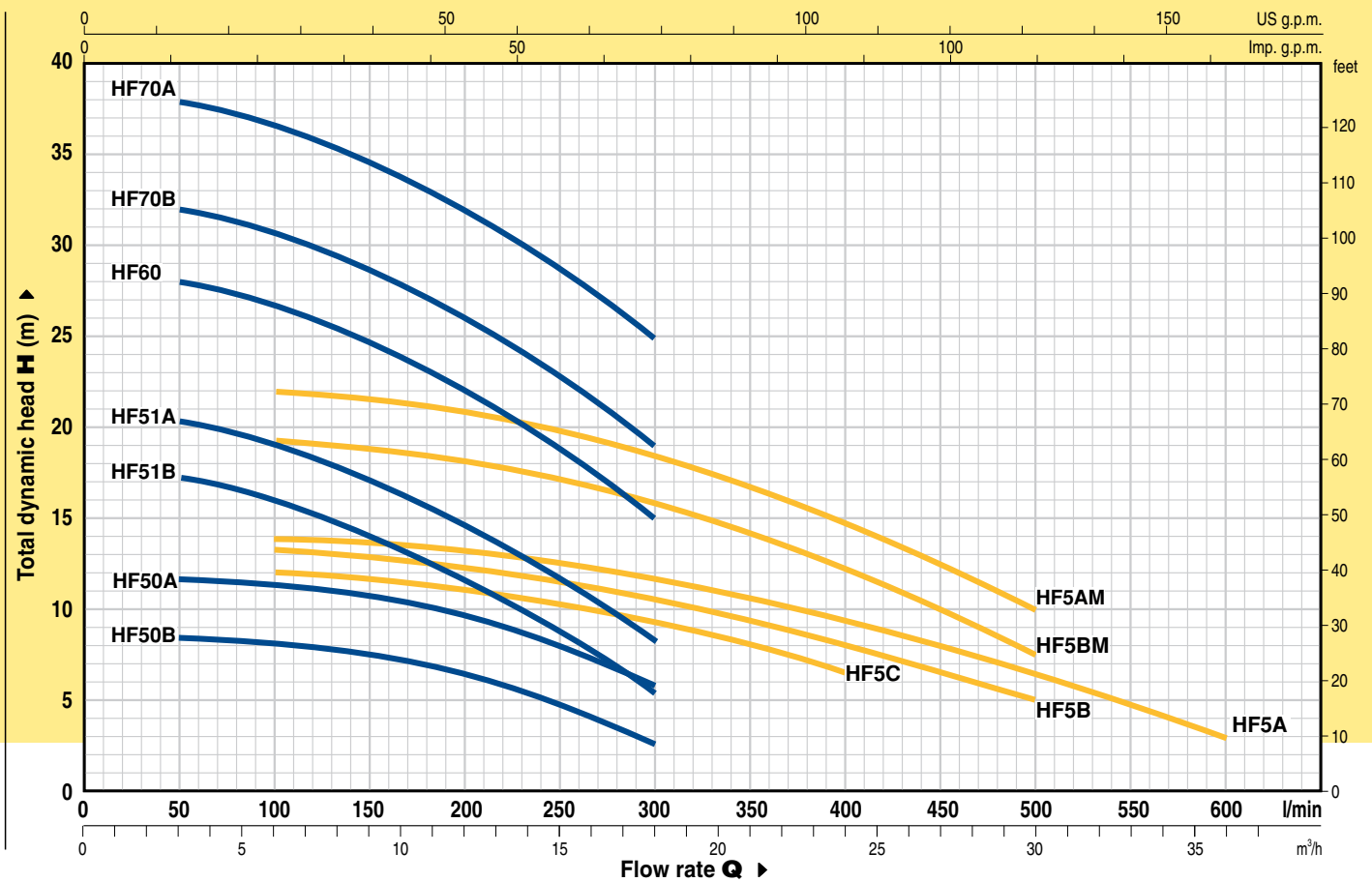
(according to our general sales conditions).

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 (AISI 416 up to 0.55 kW).
- **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 and 1.1 kW three phase).
The thermal cutout relay (motor protector) is incorporated in single phase motors.
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

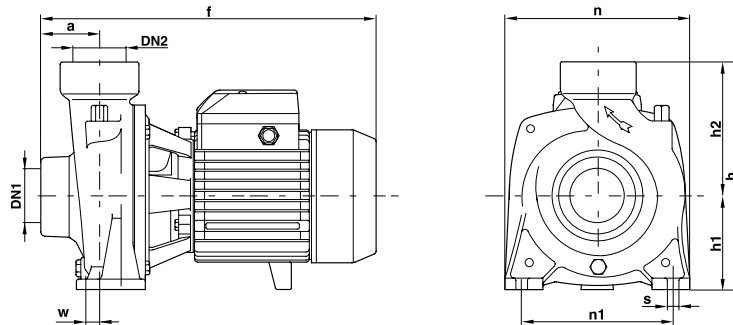


PERFORMANCE DATA AT n= 2900 1/min

PUMP MODEL		POWER		Q m³/h	H												
Single phase	Three phase	kW	HP		0	3	6	9	12	15	18	21	24	30	36		
				l/min	0	50	100	150	200	250	300	350	400	500	600		
HFm 50B	HF 50B	0.37	0.50	H (m)	9	8.5	8.2	7.5	6.3	4.9	2.8						
HFm 50A	HF 50A	0.55	0.75		12	11.5	11.2	10.6	9.6	8	6						
HFm 51B	HF 51B	0.60	0.85		18.2	17.2	16	14	11.5	9	5.4						
HFm 51A	HF 51A	0.75	1		21.2	20.2	19	17	14.5	11.6	8.4						
HFm 60	HF 60	1.1	1.5		29	28	26.5	24.5	22	18.5	15						
HFm 70B	HF 70B	1.5	2		33	32	30.5	28.5	26	22.5	19						
—	HF 70A	2.2	3		39	38	36.5	34.5	32	28.5	25						
HFm 5C	HF 5C	0.60	0.85		12.5	—	12	11.7	11	10.2	9.2	8	6.5				
HFm 5B	HF 5B	0.75	1		13.7	—	13.2	13	12.5	11.6	10.5	9.2	8	5			
HFm 5A	HF 5A	1.1	1.5		14.5	—	13.8	13.5	13.2	12.6	11.8	10.5	9.2	6.5	3		
HFm 5BM	HF 5BM	1.1	1.5		20.2	—	19.2	19	18	17	16	14	12	7.5			
HFm 5AM	HF 5AM	1.5	2		22.5	—	22	21.5	21	20	18.5	16.6	14.5	10			

Q = FLOW RATE H = TOTAL DYNAMIC HEAD IN METERS

Curve tolerance according to ISO 2548.



DIMENSIONS

PUMP MODEL		DIMENSIONS mm										
Single phase	Three phase	DN1	DN2	a	f	h	h1	h2	n	n1	w	s
HFm 50B	HF 50B	1 1/2"	1 1/2"	45	276	200	82	118	165	135	1	10
HFm 50A	—	1 1/2"	1 1/2"	45	283	200	82	118	165	135	1	10
—	HF 50A	1 1/2"	1 1/2"	45	276	200	82	118	165	135	1	10
HFm 51B-A	HF 51B-A	1 1/2"	1 1/2"	45	300	225	92	133	190	160	4	10
HFm 60	HF 60	1 1/2"	1 1/2"	48.5	347	269	114	155	216	171	12	12
—	—	1 1/2"	1 1/2"	48.5	367	269	114	155	216	171	12	12
—	HF 70B	1 1/2"	1 1/2"	48.5	347	269	114	155	216	171	12	12
—	HF 70A	1 1/2"	1 1/2"	48.5	367	269	114	155	216	171	12	12
HFm 5C-B-A	HF 5C-B-A	2"	2"	60	332	238	97	141	196	160	14	11
HFm 5BM	HF 5BM	2"	2"	51	360	260	110	150	206	160	1	11
HFm 5AM	—	2"	2"	51	380	260	110	150	206	160	1	11
—	HF 5AM	2"	2"	51	360	260	110	150	206	160	1	11