

# THF LOWLIFT PUMPS

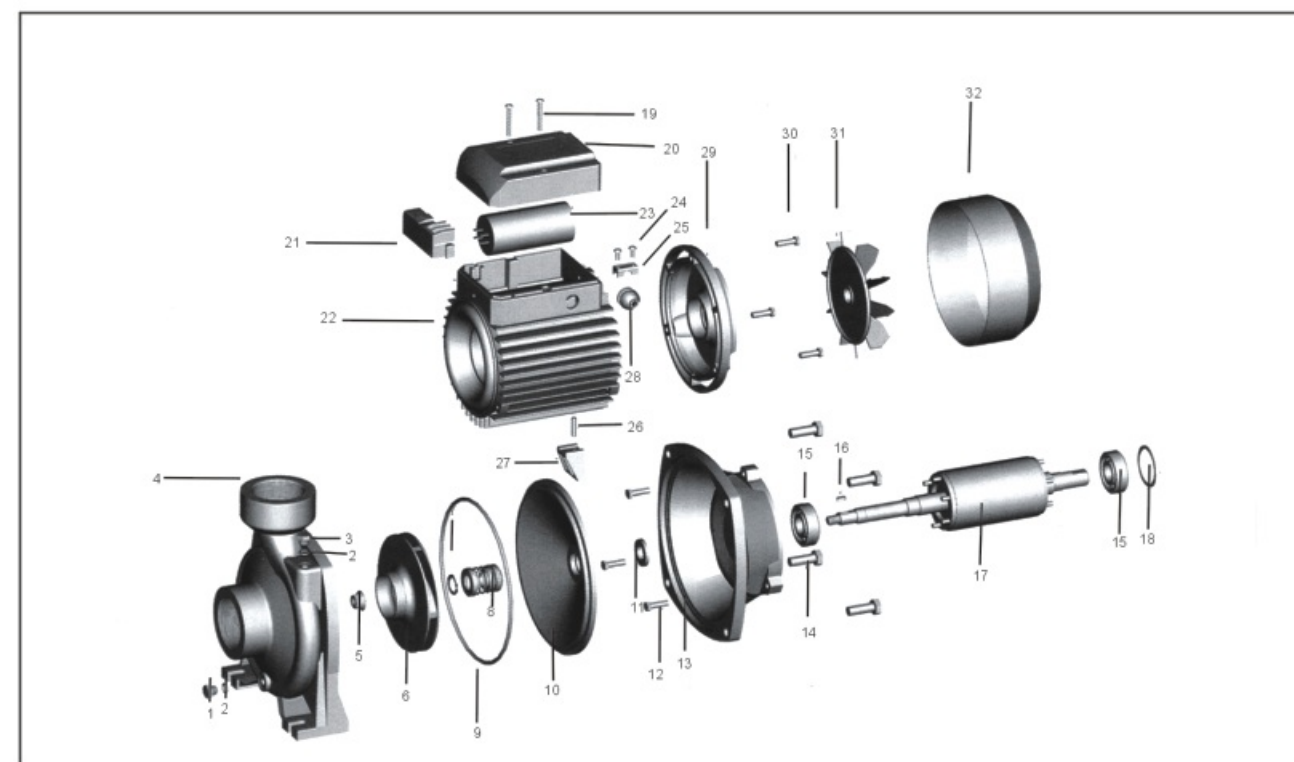


## PERFORMANCE RANGE

- Flow rate up to 600 l/min(36m<sup>3</sup>/h)
- Head up to 22.5m

## OPERATING LIMITS

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



N.	DESCRIPTION	N.	DESCRIPTION	N.	DESCRIPTION
1	Discharge plug	13	Pump support	25	Cable presser
2	"O" ring	14	Bolt	26	Stand pin
3	Charge plug	15	Bearing	27	Stand
4	Pump casing	16	Key	28	Fairlead
5	Nut	17	Rotor	29	Driving cap
6	Impeller	18	Split ring	30	Bolt
7	Snap ring	19	Bolt	31	Fan
8	Mechanical seal	20	Terminal cover	32	Fan cover
9	"O" ring	21	Terminal board		
10	Pump casing cover	22	Casing with wound stator		
11	Drops guard	23	Capacitor		
12	Bolt	24	Screw		

## PUMP INSTALLATION AND APPLICATIONS

THF 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 of 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 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 the weather.

## PERFORMANCE

THF pumps come in a wide and well-diversified range. Characteristic curves for the different models are distributed in a rational and complementary manner, making it easy to select the model most suited to each specific user requirement.

Special design efforts were made to unify the entire THF series, which is distinctive for its;

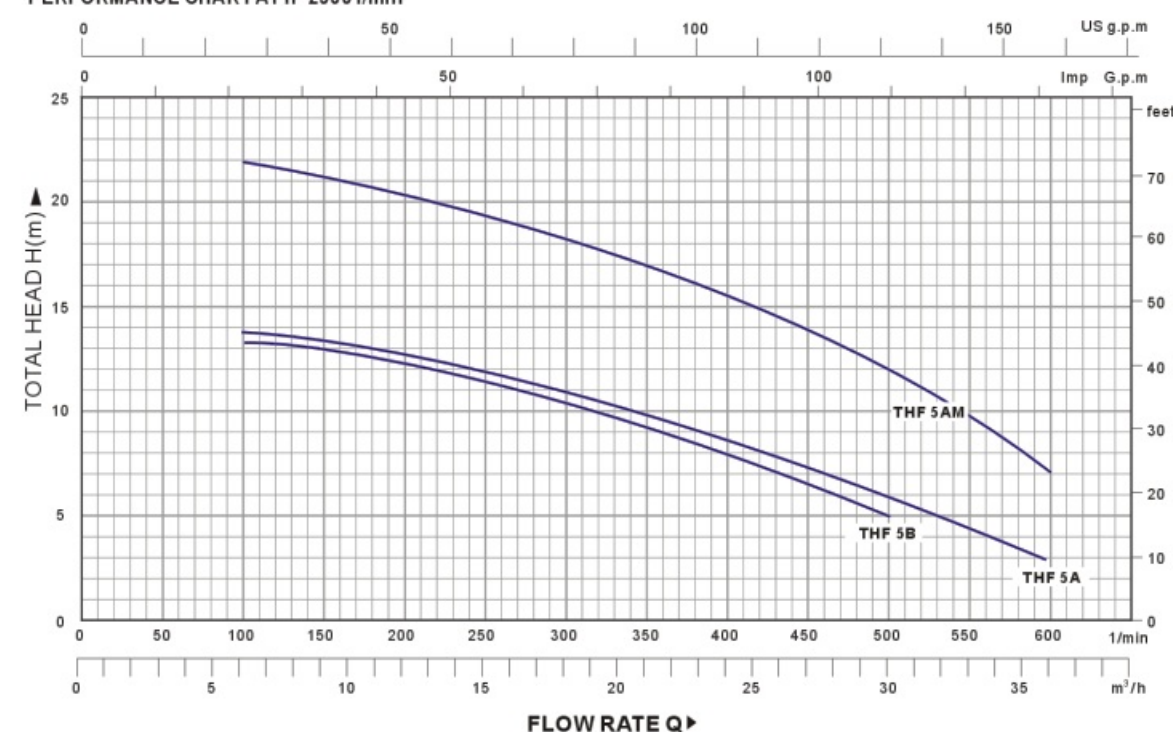
- especially ample characteristic curves;
- no surging phenomena even when pumping near minimum forecast delivery rates;
- performance characterized by high absolute values over the majority of the characteristic curve;
- flat absorption curves at high delivery rates, to prevent motor overloading even during prolonged use;
- good suction capacities at both low and high delivery rates.

## STRUCTURAL CHARACTERISTICS

- cast iron pump body
- brass impeller with centrifugal radial flow type
- anti-rust shaft ( Hi-Crplated 45# steel shaft)
- With thermal overload protector in single phase motor  
all three phase motors require an adequate external motor protector, and connections are be according to current standards
- stainless steel mechanical seal(graphite to ceramic or graphite to SIC)
- protection IP 44.
- C&U bearing or local bearing

**WARRANTY: 1 YEAR**(according to our general sales conditions)

## PERFORMANCE CHART AT n=2900 l/min



MODEL	INLET/OUTLET	POWER		Q	0	6	9	12	15	18	21	24	30	36
Single phase	Inch	KW	HP	m³/h l/min	0	100	150	200	250	300	350	400	500	600
THF/5B	2" × 2"	0.75	1	H m	13.7	13.2	13	12.5	11.6	10.5	9.2	8	5	
THF/5A	2" × 2"	1.1	1.5		14.5	13.8	13.5	13.2	12.6	11.5	10.5	9.2	6.5	3
THF/5AM	2" × 2"	1.5	2		22.5	22	21.5	21	20	18.5	16.6	14.5	10	7

H=TOTAL HEAD IN METERS. Q=FLOW RATE



PERFORMANCE RANGE

- Flow rate up to 1800 l/min(108m<sup>3</sup>/h)
- Head up to 24m

OPERATING LIMITS

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



THF7BR



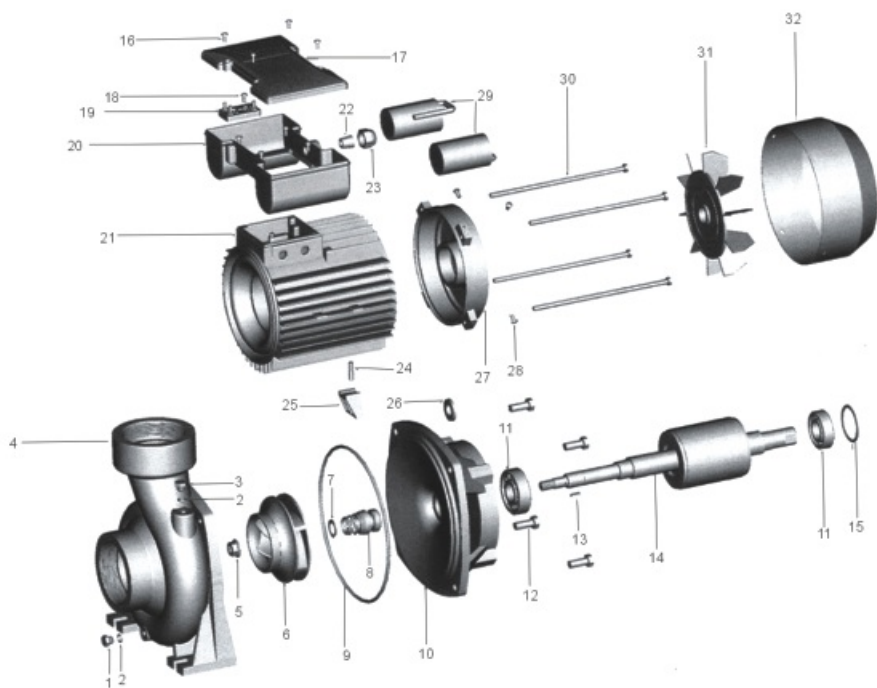
THF6B



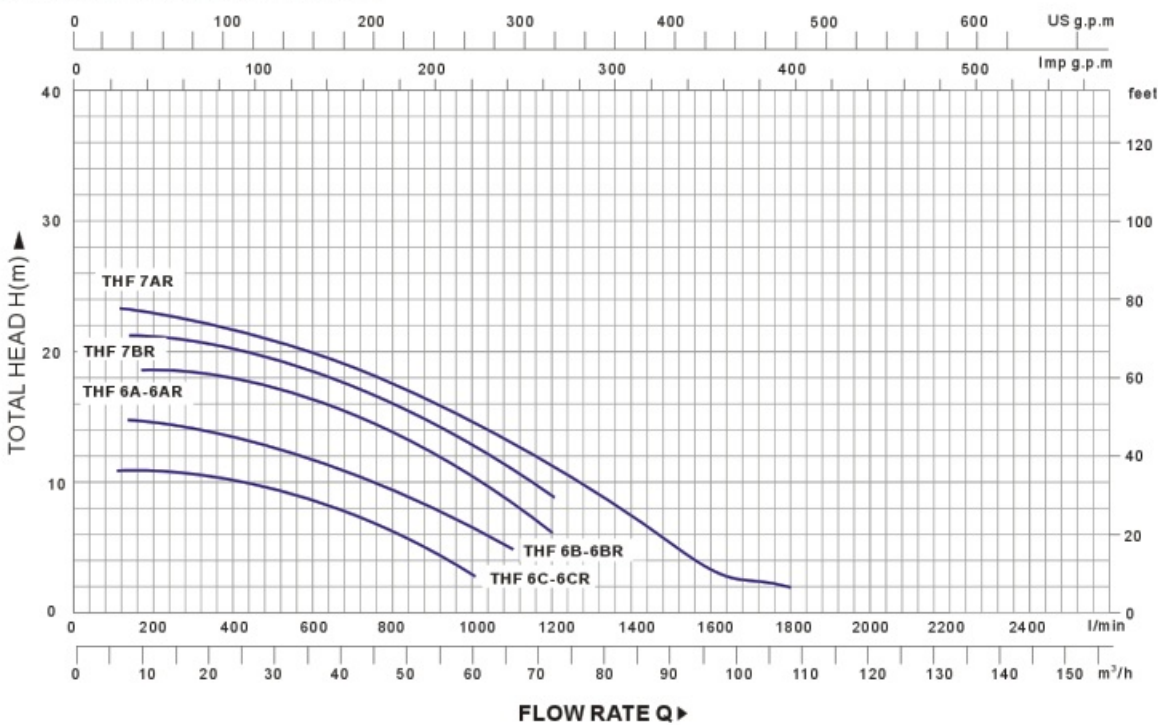
THF6AR



THF7AR



PERFORMANCE CHART AT n=2900 l/min



N.	DESCRIPTION	N.	DESCRIPTION	N.	DESCRIPTION
1	Discharge plug	13	Key	25	Stand
2	“O” ring	14	Rotor	26	Drops guard
3	Charge plug	15	Split ring	27	Driving cap
4	Pump casing	16	Screw	28	Screw
5	Nut	17	Terminal cover	29	Capacitor
6	Impeller	18	Screw	30	Tie-rod
7	Snap ring	19	Terminal board	31	Fan
8	Mechanical seal	20	Terminal box	32	Fan cover
9	“O” ring	21	Casing with wound stator		
10	Pump support	22	Fairlead		
11	Bearing	23	Nut		
12	Bolt	24	Stand pin		

MODEL	INLET/OUTLET	POWER		Q	0	6	9	12	15	18	21	24	30	36	42	48	54	60	66	72	108
Single phase	Inch	KW	HP	m <sup>3</sup> /h l/min	0	100	150	200	250	300	350	400	500	600	700	800	900	1000	1100	1200	1800
THF/6C	3" × 3"	1.1	1.5	H        m	-	-	11.9	11.7	11.5	11.3	11	10.7	10.2	9	8	6.7	5	3			
THF/6B	3" × 3"	1.5	2		-	-	14.7	14.5	14.2	14	13.5	13.5	13	12	11	9.7	8.2	6.7	5		
THF/6A	3" × 3"	2.2	3		-	-	18.5	18.1	18	17.8	17.5	17.2	16.8	16	15	13.8	12.2	10.5	8.3	6	
THF/6CR	4" × 4"	1.1	1.5		-	-	11.9	11.7	11.5	11.3	11	10.7	10.2	9	8	6.7	5	3			
THF/6BR	4" × 4"	1.5	2		-	-	14.7	14.5	14.2	14	13.7	13.5	13	12	11	9.7	8.2	6.7	5		
THF/6AR	4" × 4"	2.2	3		-	-	18.5	18.1	18	17.8	17.5	17.2	16.8	16	15	13.8	12.2	10.5	8.3	6	
THF/7BR	4" × 4"	3.0	4		-	-	21.5	21	18.7	18.6	18.5	18.4	17.9	11	16.2	15	13.8	12.2	10.3	8.2	
THF/7AR	4" × 4"	4.0	5.5		-	-	24	23.5	23	22.5	22	21	20	19.5	19	18	17.3	16	15	13.5	2

H=TOTAL HEAD IN METERS. Q=FLOW RATE