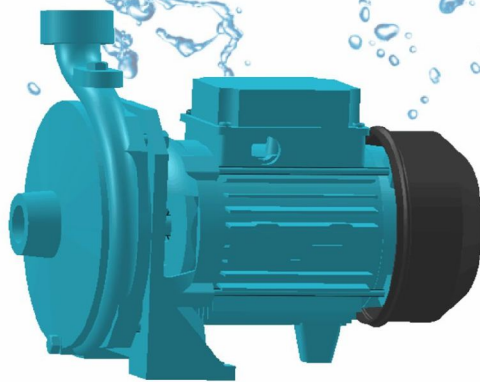


**TARGET**

PUMPS • MOTORS

**INNOVATION**

**TRUST** **QUALITY**



**CENTRIFUGAL  
MONOBLOCK  
PUMP-SET**

**1 HP  
(1Ø)**



Enriching  
Excelling  
Enhancing

Focusing on a culture of continuous improvement & consistent performance, we strive to be leading provider of energy efficient pumping solution, while expanding our influence in the world.

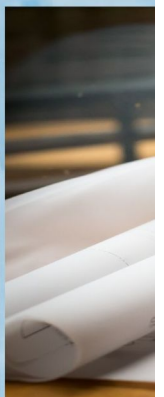
# 1 HP MONOBLOCK (1Ø)

## OVERVIEW

Target centrifugal monoblock pump sets are powered by TEFC (Totally Enclosed Fan Cooled) AC induction motor having two poles. Motor stator and rotor stampings are made up of low loss laminated silicon electrical sheets assembled under pressure and stator winding is finally locked in the Motor Body(Frame). The windings are made up of high grade insulation copper wire having excellent electrical and thermal properties. Construction of motor frame and usage of standard quality material results in high performance and low temperature rise of product.

## SALIENT FEATURES

- High operating efficiency resulting in lower power consumption.
- Windings are vacuum impregnated with synthetic varnish to resist moisture, internal vibrations and interturn faults.
- Specially designed for wide voltage variations.
- Dynamically balanced rotor and impeller ensures minimum vibration and maximum operating life.
- Insulation class 'F' materials are used to withstand high temperature rise.
- Double shielded ball bearings are used to avoid ingress of dust particles and to eliminate external lubrication.
- Good suction-lift characteristics.
- Robust design for easy installation and servicing.



## **TECHNICAL SPECIFICATION**

OUTPUT POWER	0.75 KW / 1 HP
VOLTAGE RANGE	220-240 V,50 HZ
SPEED	2850 RPM
FRAME SIZE INDUCTION MOTOR	71
MAXIMUM TOTAL HEAD	35 m
MAXIMUM DISCHARGE	130 lpm
DEGREE OF PROTECTION	IP 44
ENCLOSURE	TEFC
CLASS OF INSULATION	'F'
MAXIMUM AMBIENT TEMPERATURE	40°C
SEALING	Mechanical Seal
TYPE OF DUTY	S1 (Continuous)
METHOD OF STARTING	DOL(Single Phase)
NOMINAL PUMPSET SIZE (SUCTION X DELIVERY)	25mm x 25mm

## **APPLICATIONS**

- Irrigation of fields /farms
- General water supply
- Horticulture irrigation
- Boosting showers
- Garden watering
- Dairy and Farm



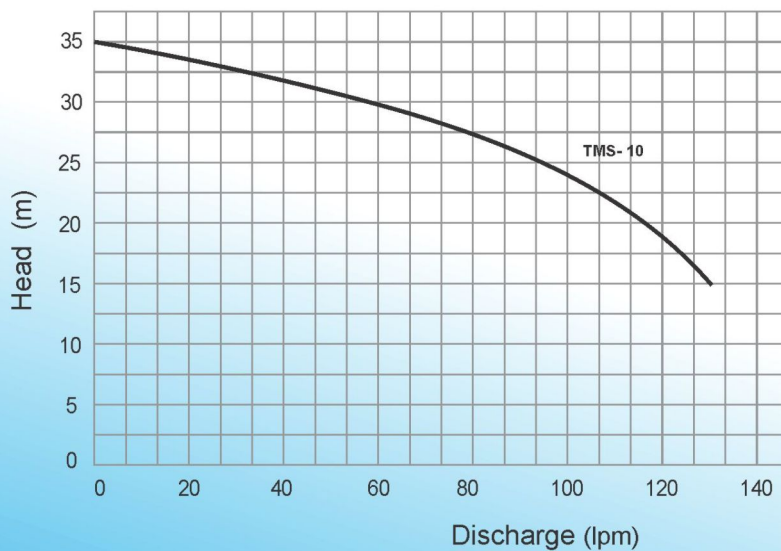
## MATERIAL OF CONSTRUCTION

S.NO	PART NAME	MATERIAL
1	Pump Casing	Cast Iron / SS 304
2	Impeller	Cast Iron / SS 304
3	Motor Body	Cast Iron
4	End Shield	Cast Iron / SS 304
5	Fan	PVC
6	Fan Cover	S.S / M.S
7	Terminal Box	Plastic / SS / ALU
8	Stamping	M 45
9	Mechanical Seal	Carbon & Ceramic

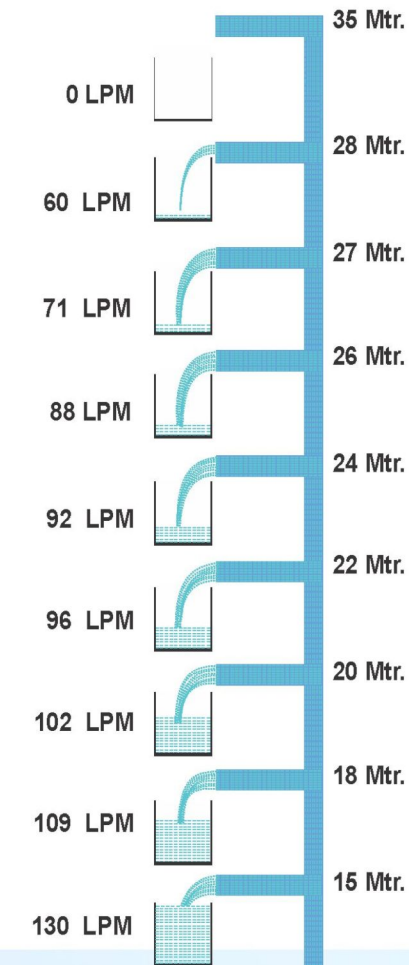
## HYDRAULIC CHARACTERISTICS

Type	Power (KW)	Power (HP)	In(A) 1 $\phi$ 230v	Capacitor			U.S.g.p.m								
				$\mu$ f	V	0	15.85	18.75	23.25	24.3	25.36	27	28.8	34.34	
						m <sup>3</sup> /h	0	3.6	4.26	5.28	5.52	5.76	6.12	6.54	7.8
TMS 10	0.75	1	6	20	440	0	60	71	88	92	96	102	109	130	
						H (m)	35	28	27	26	24	22	20	18	15

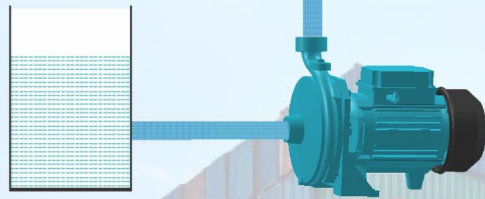
## PERFORMANCE CURVE



## HEAD-DISCHARGE REPRESENTATION



**TARGET PUMPS PVT. LTD**



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