TSURUMI PUMP

FEATURES

- 1. Semi-vortex Urethane Rubber impeller with agitator suspends solids and allows for pumping of sand and stringy material.
- Highly efficient, continuous duty air filled, copper wound motor with class E, insulation minimizes the cost of operation.
- 3. Built in thermal protection prevents motor failure due to overloading, accidental run-dry and single phasing in three phase units.
- 4. Double inside mechanical seals with silicon carbide faces running in an oil filled chamber provide for one the most durable seal designs available.

5. Double shielded, permanently lubricated, high temperature C3 ball bearings rated for a B-10 life of 60,000 hours provide for extended operational life.

H62- SERIES

SEMI-VORTEX - WASTEWATER PUMP - WITH AGITATOR

APPLICATIONS

- 1. Residential, commercial, industrial wastewater and site drainage.
- 2. Decorative waterfalls and fountains.
- 3. Raw water supply from lakes or rivers.
- 4. Sediment removal from small sumps or basins.



SPECIFICATIONS





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Discharge Size Horsepower Range Performance Range Capacity Head Maximum water temperature Materials of Construction Casing Impeller Shaft Motor Frame Fasteners Mechanical Seal Upper Seal Lower Seal Elastomers Impeller Type Solids Handling Capability Bearings

Motor Nomenclature Type, Speed, Hz. Voltage, Phase Insulation

Accessories

Operational Mode

STANDARD

2" Npt (50 mm) 1/2 Hp. (.4 Kw) 15 ~ 50 Gpm. (.056 ~ .19 m³/min) 5 Ft. ~ 34 Ft. (1.5 ~ 10.3 m) 104° F. (40° C.)

Ductile Cast Iron Urethane Rubber 403 Stainless Steel Aluminum alloy 304 Stainless Steel

Silicon Carbide/Silicon Carbide Silicon Carbide/Silicon Carbide NBR (Nitril Buna Rubber) Semi-vortex, solids handling. 1" x 3/8"

Prelubricated, Double Shielded

Air Filled, 3600 Rpm, 60 Hz. 115 V., 1 Phase Class E

Submersible Power Cable 16' (4.87 m)

Manual

OPTIONS

Length as Required, (75' Max)

TS-301 Float Switch

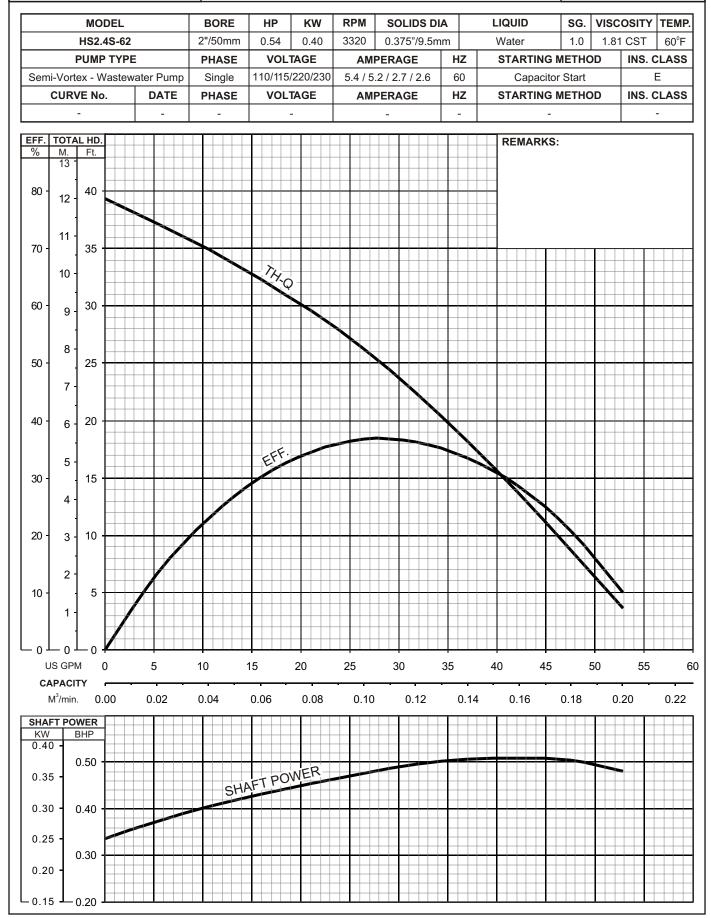
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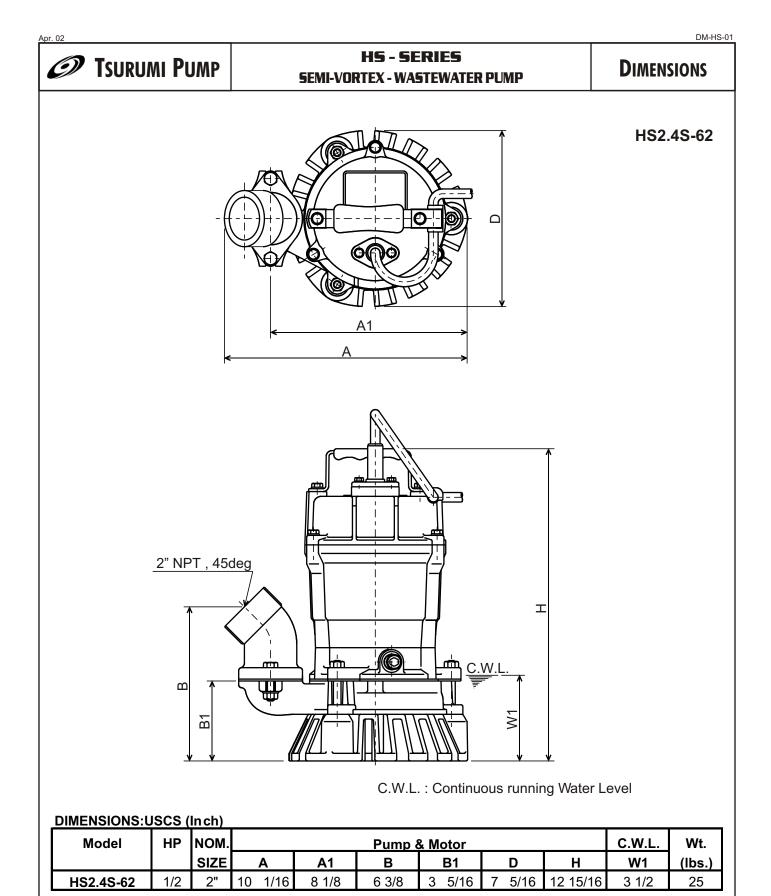


TSURUMI PUMP

HS - SERIES SEMI-VORTEX - WASTEWATER PUMP







DIMENSIONS:METRIC (mm)

Model	kW	NOM.		Pump & Motor						Wt.
		SIZE	Α	A1	В	B1	D	Н	W1	(kg)
HS2.4S-62	0.40	50	255	207	162	84	185	328	90	11.3



HS - SERIES SEMI-VORTEX - WASTEWATER PUMP

SAMPLE SPECIFICATIONS

1. SCOPE OF SUPPLY -

Furnish and install TSURUMI Model HS2.4S-62 Submersible Pump(s). Each unit shall be capable of delivering _____GPM(____m³/min) at _____Feet (_____m) TDH. The pump(s) shall be designed to pump wastewater, or effluent containing debris and solids without damage during operation. The pump(s) shall be designed so that the shaft power required (BHP)/(kW) shall not exceed the motor rated output throughout the entire operating range of the pump performance curve.

2. MATERIALS OF CONSTRUCTION-

Construction of major parts of the pumping unit(s) shall be as follows: Pump casing shall be gray cast Iron, ASTM A48 CLASS 35. Motor frame shall be aluminum alloy die casting. Impeller shall be urethane rubber and shall incorporate an agitating device in order to disperse debris and suspend particles. A fused polymer coating shall protect Internal and external surfaces coming into contact with the pumpage. All exposed fasteners shall be stainless steel. All units shall be furnished with a 2" NPT discharge connection. Impellers shall be of the multivane, semi-vortex, solids handling design and shall be slip fit to the shaft and positively driven. The suction strainer shall be manufactured from ABS high impact resin and shall incorporate flow-reversing vanes.

3. MECHANICAL SEAL-

All units shall be furnished with a dual inside mechanical shaft seal located completely out of the pumpage, running in a separate oil filled chamber and further protected by an exclusionary oil seal located between the bottom seal faces and the fluid being pumped. Mechanical seals shall rated to preclude the incursion of water up to 42.6 PSI. (98.4 Ft.) submergence. Units shall have silicon carbide mechanical seal faces. Mechanical seal hardware shall be stainless steel.

4. MOTOR-

The pump motor(s) shall be 1/2 Hp., 0.40 kW., 115 or 230 V., 60 Hz., 1 Phase and shall be NEMA MG-1, Design Type B equivalent. Motor(s) shall be rated at 5.4 or 2.7 full load amps. Motor(s) shall have a 1.15 service factor and shall be rated for 20 starts per hour. Motor(s) shall be air filled, copper wound, class E insulated with built in thermal protection in the winding. Motor shaft shall be 403 stainless steel and shall be supported by two permanently lubricated, high temperature ball bearings, with a B-10 life rating at best efficiency point of 60,000 hours. The bearings shall be single row, double shielded, C3, deep groove type ball bearings. Motors shall be suitable variable speed applications, utilizing a properly sized variable frequency drive.

5. POWER CABLE AND CABLE ENTRANCE-

The pump power cable shall be suitable for submersible pump applications. The cable entrance shall incorporate built in strain relief, a one piece, three way mechanical compression seal with a fatigue reducing cable boot. The cable entrance assembly shall contain an anti-wicking block to eliminate water incursion into the motor due to capillary wicking should the power cable be accidentally damaged.