



**HIGH Efficiency**  
**Energy Saving**  
**Extended Life Span**  
**Low Running Costs**  
**Portable Dewatering Pump**

### Application Examples

1. General Water Intake or Draining
2. Dewatering in Construction Site
3. Draining Water from Basement / Cellar / Pits
4. Draining of Rain Water and Puddle
5. Draining of Treated Water in Water Treatment Plants
6. Water Intake for Gardening or Irrigation



# Portable, Easiness in Handling, Longevity, Maintainability and Low Running Costs.

## A. Anti-Wicking Cable Entry

Cable entry is an important part in the submersible pumps. Tsurumi's care has been extended to the sealing of the strand of the cable conductors that may accidentally cause the ingress of water by a wicking (capillary phenomenon).

## B. Built-In Motor Protection

A thermostat is installed in the motor. It automatically stops the motor in case of an excessive heat buildup in the motor caused by blockage of impeller or by other overloading factors.

## C. Agitator for Clog Prevention

An agitator, installed under the impeller, disperses debris and suspends solid particles, preventing impeller lock and reducing the possibility of clogging.

## D. Dual-Face Mechanical Seal

The pump is provided with a dual-face mechanical seal housed in an oil-filled chamber. The motor is double protected from ingress of water.

## E. Oil Lifter (Pat.Pending)

The pump has a built-in Oil Lifter designed to stabilize the mechanical seal function by efficiently supplying the lubricant to the seal even if it drops to below the rated level. This amazingly simply device turns otherwise wasted energy into an additional protection effect for the seal and extends both seal life and maintenance intervals.

## F. Designed for Easier Maintenance

Unfastening the three nuts on the casing allows the casing to be detached from the motor with the impeller still attached. As a result, the pump section can be inspected and repaired in a short time.

## G. Wear-Resistant Pump Section

This section consists of a pump casing having a wide passage and a vortex impeller made of special urethane rubber. Both have a wear-resistant design, and their performance does not easily deteriorate by impeller wear.

## H. Shock-Resistant Strainer Stand

The strainer stand is made of solid shock-resistant PVC. It is designed so that it is hard to sink into sand or mud where it is installed.

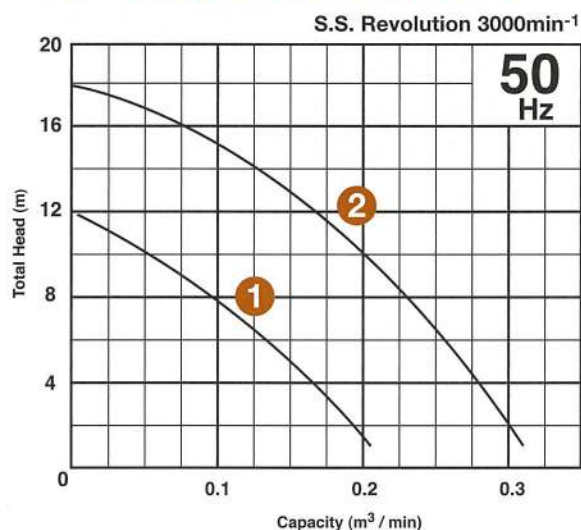
## I. Energy Saving (Automatic Type)

The pump operates only when necessary according to the amount of water that builds up on site, which results in greater energy savings compared with conventional non-automatic models.

## J. Prevent Dry-Running (Automatic Type)

The pump operates only when necessary and has a mechanism to prevent dry-running, a major cause of pump wear. As a result, pump parts such as impeller need to be replaced less frequently.

## Performance Curves



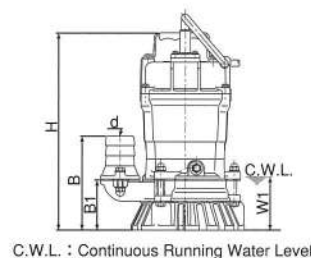
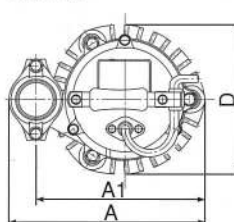
## Specifications

Curve No.	Discharge Bore (mm)	Model		Motor Output (kW)	Phase	Max Head (m)	Max Flow Rate (m <sup>3</sup> /min)	Auto		Std. Cable Length (m)	Dry Weight (Kgs)	Dimensions (mm)							C.W.L (mm)
		Manual	Auto					Start Level (mm)	Stop Level (mm)			d	A	A1	B	B1	D	H	
1	50	HS2.4S	HSZ2.4S	0.4	Single	12	0.2	385 +0 -90	120 +40 -0	5	11.3	50	241	207	158	84	185	328	90
2	80	HS3.75S	HSZ3.75S	0.75	Single	18	0.3	445 +0 -90	180 +40 -0	5	17.5	80	285	233	217	109	185	388	90

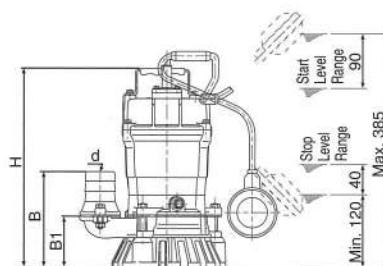
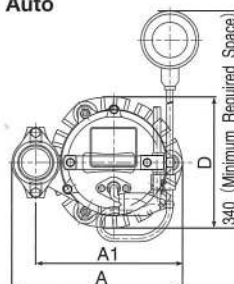
- Dry weight of the pump excluding cable.
- The length of the float cable cannot be adjusted.

## Dimensions

### Manual



### Auto



## Standard Accessories

- Cabtyre Cable 1pc
- Hose Coupling 1pc
- Hose Band 1pc

## Optional Specifications

- Extended Cable
- Special Paint



For The Earth, For All The People



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