



Submersible Sewage Pumps
Vortex Impeller
UT / UTZ

Compact Economical Cast Iron Pumps

Economical

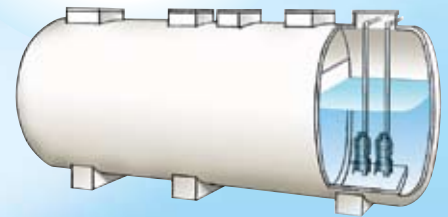
The UT / UTZ Series is an economical version of the Tsurumi U Series, semi-vortex submersible pumps. It is designed for a wide range of applications.

Large Diameter Passage

The pump has a large passage that makes it ideal for liquid containing various solids.

Available in Automatic Operation

Automatic version equipped with floats.



NEW



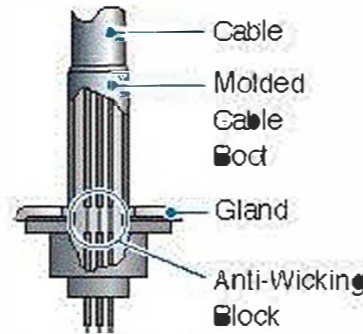
Applications

- Transferring wastewater between storage tanks
- Draining sewage from factories, home residences, hotels, restaurants, etc.
- Pumping water run-off containing solids.

■ Features

Anti-wicking Cable Entrance

Maximum protection against water incursion through the cable entry.



Motor Protector

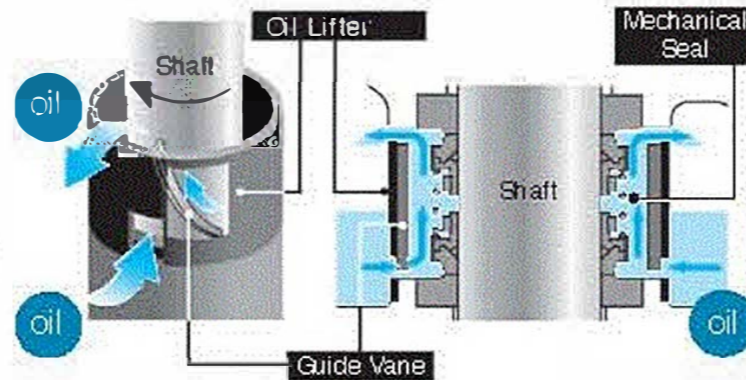
A built-in thermal motor protection device reacts to the heat caused by overcurrent or run-dry conditions by shutting down the motor circuit automatically. When the motor cools down to a safe operating temperature, the motor restarts.

Dual Inside Mechanical Seal

The dual inside mechanical seal (dual face mechanical seal located in an oil bath) is incorporated in all pumps. As both top and bottom sealing faces are lubricated by the oil, it ensures a longer life of the product and a stable sealing effect.

Oil Lifter (Patented)

Tsurumi's exclusive Oil Lifter encloses the mechanical seal and uses the centrifugal force generated by the rotating shaft and seal to pump oil to the upper seal faces. Upper and lower seal faces are positively lubricated even when extremely low oil levels exist, as experienced after long periods of extended operation.



Automatic Operation with Float Switch

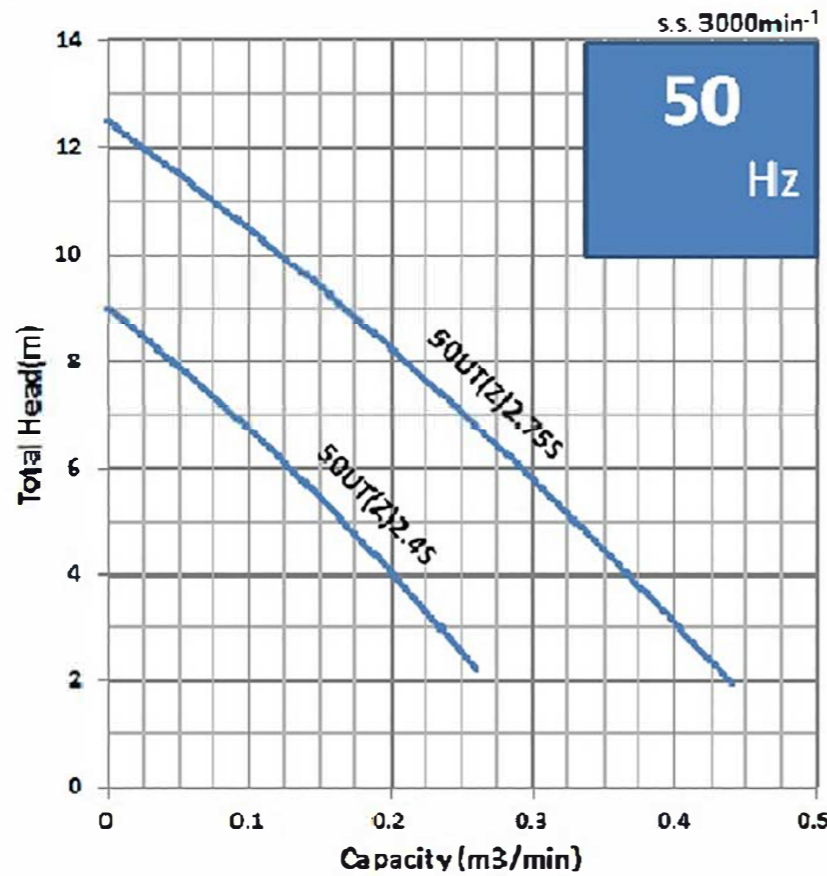
(50UTZ2.4S & 50UTZ2.75S)

The pump operates a float switch for automatic operation to prevent dry running and lower power consumption.

■ Major Standard Specifications

| | | | | |
|----------------------|------------------------------|---|--|--|
| Discharge Size | | 2 inches (50mm) | | |
| Pumping Fluid | Type of Fluid | Sewage, Wastewater, and Liquid carrying Waste and Solid Matters | | |
| | Fluid Temperature | 0 to 40°C | | |
| Pump | Structure | Impeller | Vortex | |
| | | Shaft Seal | Double Mechanical Seal (with Oil Lifter) | |
| | Bearing | Double-shielded Ball Bearing | | |
| | Materials | Impeller | Glass-fiber Reinforced Resin | |
| Casing | | Gray Cast Iron | | |
| Motor | Type, Pole | Dry Type Submersible Induction Motor, 2-pole | | |
| | Insulation | Class E | | |
| | Phase | Single-phase | | |
| | Starting Method | Capacitor Run | | |
| | Protection Device (Built-in) | Circle Thermal Protector Miniature Thermal Protector (50UT2.4S only) | | |
| | Lubricant | Turbine Oil (ISO VG32) | | |
| | Materials | Frame | Gray Cast Iron | |
| | | Shaft | 403 Stainless Steel | |
| | | Cable | PVC | |
| | Float Switch | Housing | Polypropylene Resin | |
| Cable | | Chloroprene Rubber | | |
| Discharge Connection | | Screwed Flange | | |

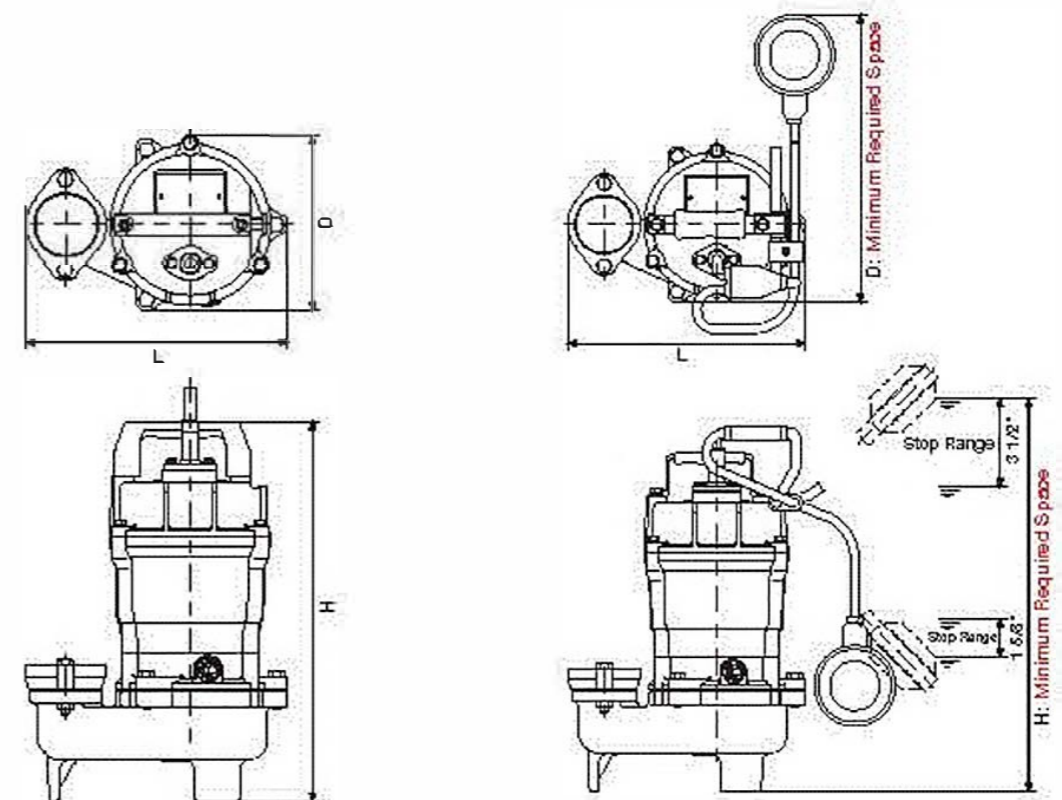
■ Performance Curve



■ Dimensions

<50UT2.4S and 50UT2.75S>

<50UTZ2.4S and 50UTZ2.75S>



■ Standard Specifications

| Discharge Bore mm(inch) | Model | | Motor Output kW | Voltage | Phase | Speed (S.S.) min ⁻¹ | Starting Method | Impeller Passage mm | Dimension(mm) | | | Dry Weight kgs | Cable Length m |
|-------------------------|---------------|--------------------|-----------------|---------|--------|--------------------------------|-----------------|---------------------|---------------|-----|-----|----------------|----------------|
| | Free Standing | Guide Rail Fitting | | | | | | | L | D | H | | |
| 50(2) | 50UT2.4S | (TOK) | 0.4 | 220V | Single | 3000 | Capacitor Run | 35 | 242 | 161 | 350 | 14 | 5 |
| 50(2) | 50UTZ2.4S | (TOK) | 0.4 | 220V | Single | 3000 | Capacitor Run | 35 | 242 | 293 | 400 | 14.5 | 5 |
| 50(2) | 50UT2.75S | (TOK) | 0.75 | 220V | Single | 3000 | Capacitor Run | 35 | 242 | 161 | 406 | 17 | 5 |
| 50(2) | 50UTZ2.75S | (TOK) | 0.75 | 220V | Single | 3000 | Capacitor Run | 35 | 242 | 293 | 465 | 17.5 | 5 |

We reserve the right to change the specifications and designs for improvement without prior notice.