

# Light, Compact, Easy-to-Uses Tsurumi Typical Portable Pumps, Perfect for a Variety of Applications

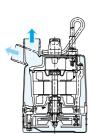




# Individual Features

#### Flow-Thru Design

An excellent cooling effect for the motor can be achieved at low water levels. The top discharge port enables the pump to be installed in narrow locations.



#### **Multi-Directional Hose Coupling**

Discharge can be converted to horizontal direction. Notched bolt holes enable the hose coupling to be removed by merely loosening the cap nuts.





## **Slimline Models**

The non-automatic model has the overall dimension of 187 mm and can fit in a 200-mm (8") casing.

# Major Standard Specifications

Dischar	Discharge Bore mm		50(80)				
Motor C	or Output kV		0.48 - 0.75				
Pumping Fluid	Type of Fluid		Rain, Spring, Ground, Sand Carrying Water				
	Fluid Te	mperature	0 to 40°C				
		Impeller	Semi-vortex				
	Structure	Shaft Seal	Double Mechanical Seal (with Oil Lifter				
		Bearing	Double-shielded Ball Bearing				
Dumn	Materials	Impeller	Urethane Rubber				
Pump		Casing	Synthetic Rubber				
		Suction Cover	Carbon Steel + Urethane Rubbe				
		Outer Cover	Carbon Steel				
		Shaft Seal	Silicon Carbide				
	Type, Po	ole	Dry Type Submersible Induction Motor, 2-pole				
	Insulation	n	Class E				
	Phase/V	oltage	Single-phase/ 110V, 220V, 230V, 240V				
<b></b> .	Starting	Method	Capacitor Run				
Motor	Protection (Built-in)	on Device	Miniature Thermal Protector/ Circle Thermal Protector				
	Lubricar	nt	Turbine Oil (ISO VG32)				
		Frame	Aluminium Alloy Die-casting				
	Material	s Shaft	403 Stainless Steel				
		Cable	PVC				

### **Simple Structure**

The pump section can be disassembled and reassembled using a single 13-mm box wrench.

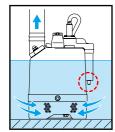
#### **Electrode Auto Control Device (LB-A)**

Stable electrode-type sensor ON/OFF operation prevents dry running, saves power consumption, and extends operational life.

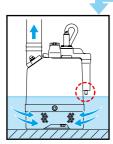


# Type Sensor

# Automatic Operation

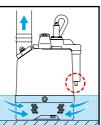


Electrodes submerged in water. Pump starts operation.

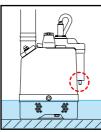


Water level falling. Electrodes emerged from water and timer

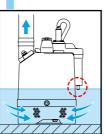




Pump continues operation for 1 min.

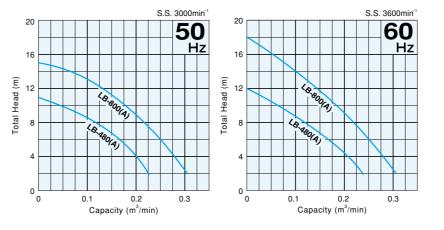


Timer makes pump to stop operation.



Water level reaches electrodes. Pump restarts.

# Performance Curves



# Applications

Draining at civil engineering and building sites Draining storm water, groundwater, or puddles Draining from basements or utility pits Draining water from dewatering wells

# Standard Accessories

- Hose Coupling .....1pc.
- Hose Band ······1pc.

# Standard Specifications 50/60Hz

Discharge Bore	Model	Motor Output	Phase	Starting Method	Dry Weight	Cable Length	Dimensions mm			C.W.L. mm			
mm		kW			kgs	m	d	Α	A1	В	B1	D	W1
50	LB-480	0.48	Single	Capacitor Run	10.4	5	50	233	162	286	228	187	50
50	LB-480A	0.48	Single	Capacitor Run	11.0	5	50	233	162	286	228	187	115
50(80)	LB-800	0.75	Single	Capacitor Run	13.2	5	50	230	160	337	283	187	50
50(80)	LB-800A	0.75	Single	Capacitor Run	13.8	5	50	230	160	337	283	187	170

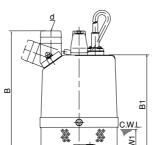
Level Control Unit

C.W.L. : Continuous Running Water Level

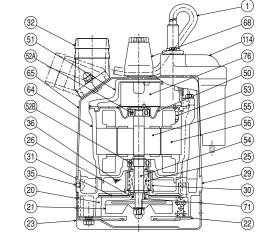
# Dimensions

<LB>

<LB-A>



# Cross-Section



No.	Description No.		Description	No.	Description
1	Cabtyre Cable	31	Wearing Plate	54	Shaft
20	Pump Casing	32	Hose Coupling	55	Rotor
21	Impeller	35	Oil Plug	56	Stator
22	Suction Cover	36	Lubricant	64	Motor Frame
23	Strainer Stand	50	Motor Bracket	65	Outer Cover
25	Mechanical Seal	51	Motor Head Cover	68	Handle
26	V-ring	52A	Upper Bearing	71	Shaft Sleeve
29	Oil Casing	52B	Lower Bearing	76	Capacitor
30	Oil Lifter	53	Motor Protector	114	Relay Unit

<sup>● 80</sup> mm discharge available upon request ● Dry weight excluding cable