LB

General Dewatering Pumps

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

Automatic Version

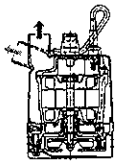
Major Standard Specifications

Discharge Bore		mm	50(80)
Motor Output		kW	0.48 - 0.75
Pumping Fluid	Type of Fluid		Rain, Spring, Ground, Sand Carrying Water
	Fluid Temperature		0 to 40℃
Pump	Structure	Impeller	Semi-vortex
		Shaft Seal	Double Mechanical Seal (with Oil Lifter)
		Bearing	Double-shielded Ball Bearing
	Materials	Impeller	Urethane Rubber
		Casing	Synthetic Rubber
		Suction Cover	Urethane Rubber
		Outer Cover	Steel Plate
		Shaft Seal	Silicon Carbide
Motor	Type, Pole		Dry Type Submersible Induction Motor, 2-pole
	Class of Insulation		Class-E
	Phase/Voltage		Single-phase/ 110V, 220V, 230V, 240V
	Starting Method		Capacitor Run
	Protection Device (Built-in)		Miniature Thermal Protector/ Circle Thermal Protector
	Lubricant		Turbine Oil (ISO VG32)
	Materials	Frame	Aluminium Alloy Casting
		Shaft	403 Stainless Steel
		Cable	PVC

Individual Features

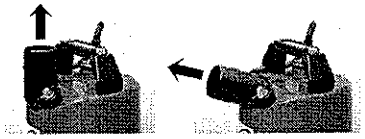
Flow-Thru Design

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.

Simple Structure

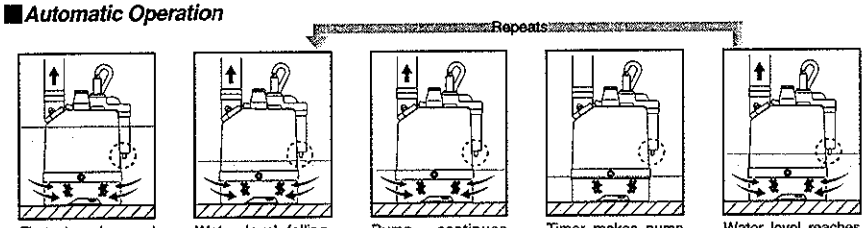
The pump section can be disassembled and reassembled using a single 13-mm box wrench.

Electrode Auto Control Device (LB-A)

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

electrode-type sensor

Automatic Operation



Electrodes submerged in water. Pump starts operation.

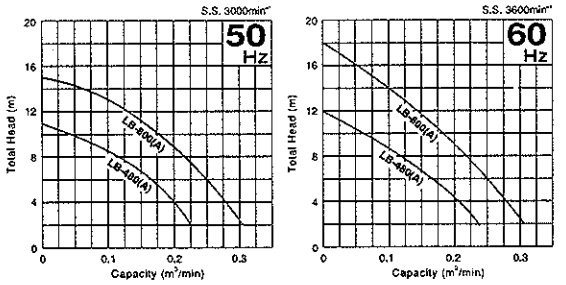
Water level falling. Electrodes emerged from water and timer starts.

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

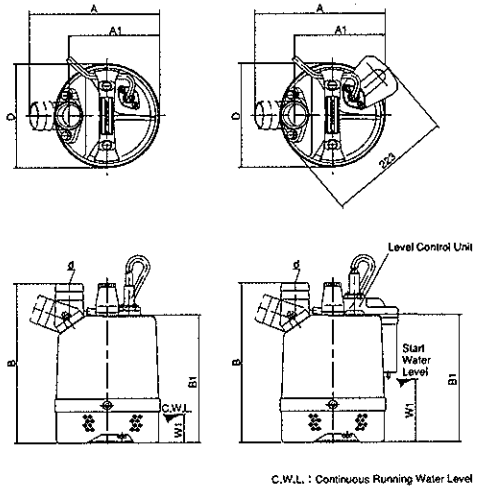
Standard Specifications 50/60Hz

Discharge Bore mm	Model	Motor Output kW	Phase	Starting Method	Dry Weight kgs	Cable Length m	Dimensions mm d	A	A1	B	B1	D	C.W.L. mm 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

● 80 mm discharge available on request ● Dry weight excluding cable

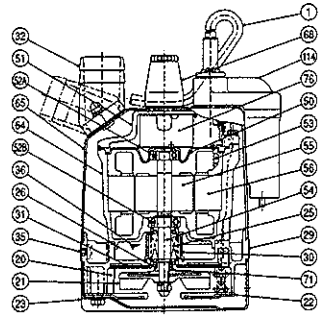
Dimensions

<LB> <LB-A>



C.W.L. : Continuous Running Water Level

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