

# LB

Submersible Portable Dewatering Pump



Automatic Version

## Individual Features

### Light, Strong Materials

Light but strong materials such as aluminium die castings and water-resistant special synthetic rubber are used on the entire pump.



### Electrode Auto Control System (LB-A)

Stable electrode-type sensor ON/OFF operation prevents dry running when the water level has fallen. Energy conservation resulting from reduced power consumption and sudden wear of parts is reduced, which improves the overall performance of the pump.



### Cooling System/Discharge Port

<Flow-through design>  
A high motor cooling effect can be achieved in low-water level operation. Water is discharged from the top, which makes the pump easier to install in narrow locations.



## Common Features

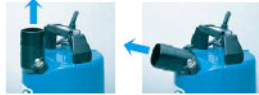
- Cable entry with anti-wicking block
- High-grade bearings for high-temperature operation
- Integrated high-performance motor
- Built-in motor protector
- Oil-bath type double-mechanical seal featuring enhanced stable shaft sealing effect over prolonged use

## Having Various Use, Powerful, Mobile Pumps by Light, Strong Materials and Simple Construction



### Discharge Direction Can Be Selected

The direction that the discharge port faces can be changed to the top or the side by a single 13-mm box wrench, preventing folding and bending of the hose when the pump is installed horizontally. The hose coupling has notched bolt holes, which means that it can be removed by merely loosening the hexagon cap nuts.



### Light, Slim Design

This pump is light and can be easily handled. It has also been constructed in a cylindrical slim body which allows it to be installed in narrow spaces.

### Easy Pump Disassembly and Assembly

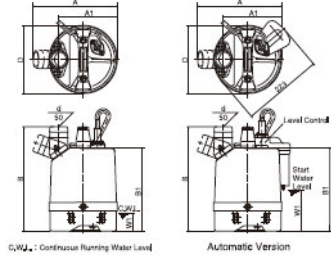
The pump can be disassembled by only one 13-mm box wrench.

- Service life of mechanical seal extended by OIL LIFTER (patent pending)
- Mechanical seal protected from corrosive particles in priming fluid by V-ring
- Impeller lock minimized by semi-vortex design

## Major Standard Specifications

Item	Discharge bore size mm	
	50(80)	
Pump Unit	Type of fluid	Rain water, Spring water, Sand carrying water, Ground water
	Liquid temperature	0~40°C
Pump	Compos.	Impeller: Semi-Vortex
		Shaft seal: Double mechanical seal
		Bearing: Shielded ball bearing
		Impeller: Urethane rubber
		Casing: Ethylene propylene rubber
Motor	Type, poles	Dry-type submersible induction motor, 2 poles
	Insulation	Class E
Motor	Phase/Voltage	Single-phase/110V, 200V, 220V, 230V, 240V
	Motor protector (Built-in)	Miniature protector, Circle thermal protector
	Lubricant	Turbine oil (ISO VG32)
	Frame	Aluminium alloy casting
	Shaft	Stainless steel #403
Motor cable	Cable	PVC Sheath
	Discharge connection	Hose coupling

## Dimensions



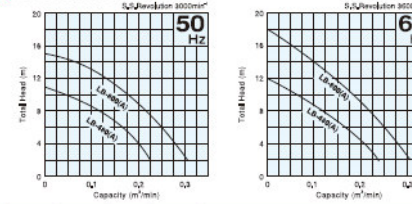
C.W.L.: Continuous Running Water Level

Automatic Version

## Standard Accessories

- Cable tie cable .....1pc
- Hose coupling .....1pc
- Hose band .....1pc

## Performance Curves



## Optional Specifications

- Extended cable
- Special paint

## Specifications 50/60Hz

Discharge Bore mm	Model	Motor Output kW	Phase	Max. Head m	Max. Capacity m³/min	Starting Method	Dry Weight kg	Length of Cable Tie Cable m	Dimensions mm							C.W.L. mm
									d	A	A1	B	B1	D	W1	
50	LB-80	0,48	Single	11/12	0,22/0,24	Capacitor Run	10,4	5	50	231	161	286	228	187	50	
50	LB-80A	0,48	Single	11/12	0,22/0,24	Capacitor Run	11,0	5	50	231	161	286	228	187	115	
50(80)	LB-800	0,75	Single	15/18	0,31	Capacitor Run	13,2	5	80	230	160	341	283	187	50	
50(80)	LB-800A	0,75	Single	15/18	0,31	Capacitor Run	13,8	5	80	230	160	341	283	187	170	

● 80mm discharge available on request. ● Dry weight of the pump excluding cable.

## Reliable Automatic Operation

