

Congratulations on your purchase of your Bromic Waterboy submersible grinder pump.

This manual contains essential information on the installation, operation and maintenance of the pump. Please read it thoroughly and follow these instructions in order to install and use the pump correctly. Failure to follow these instructions may result in motor overcharging and other malfunctions. Bromic is not liable should instructions not have been followed.

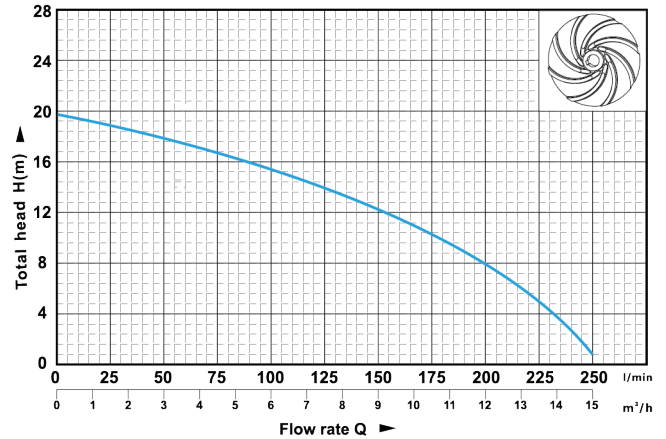
Specification

1. Maximum operating depth 5m below water level;
2. Continuous duty when fluid temperature under +40°C;
3. Value of PH in fluid 4-10;
4. Maximum kinematic viscosity: 7×10^{-7} - $23 \times 10^{-6} \text{m}^2/\text{s}$;
5. Maximum density: $1.2 \times 10^3 \text{kg}/\text{m}^3$

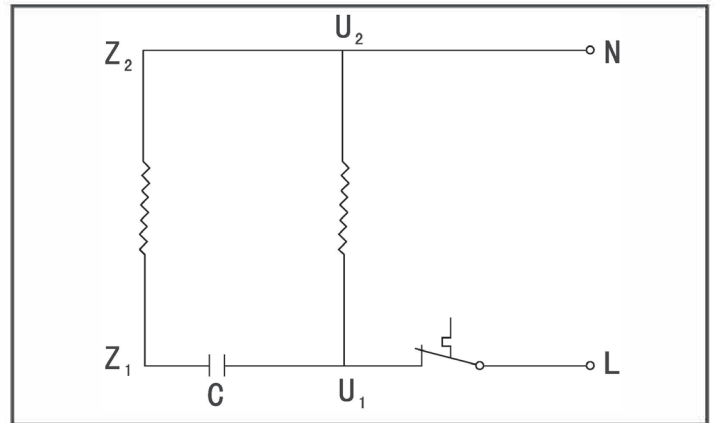
Technical data (the data will be some change under different voltage and frequency)

Model	Power Input (kw)	Discharge (mm)	Voltage / Frequency (V/hz)	Max Flow (L/min)	Max Head (m)	Weight (kg)	Packing (cm) H x W x D
7575180	1.65	50	220-240/50	250	19.5	25.5	60.5x37.5x23.5

Performance Curve



Circuit Diagram



Part View

No	Name	No	Name
1	Hex cap screw	36	Oil chamber
2	Washer	37	O-ring
3	Cable gland	38	Mechanical seal
4	Cable clamp	39	O-ring
5	Float switch	40	Oil chamber cover
6	Phillips screw	41	Hex cap screw
7	Hexagonal nut	42	Seal washer
8	Cable protector	43	Button head screw
9	Seal washer	44	Oil seal
10	Hex head bolt	45	Impeller
11	Washer	46	Shaft sleeve
12	Handle	47	Pump casing
13	Button head screw	48	Grinder ring
14	O-ring	49	Grinder ring cover
15	Hex head bolt	50	Hex head bolt
16	Spring washer	51	Rotary grinder
17	Capacitor cover	52	Washer
18	O-ring	53	Spring washer
19	Capacitor	54	Hexagonal nut
20	O-ring	55	Foot protector
21	Phillips screw	56	Hex head bolt
22	Spring washer	57	Outlet connector
23	Washer	58	O-ring
24	Wire protector	59	Hex head bolt
25	Seal washer	60	Washer
26	Motor cover	61	Flange
27	Wave washer	62	Rubber gasket
28	Upper bearing	63	Hex head bolt
29	Rotor	64	Elbow
30	Lower bearing	65	Rubber gasket
31	Key	66	Hexagonal nut
32	Motor protector	67	Power cord
33	Stator	68	
34	Motor housing	69	
35	Hex head bolt	70	

Installation Guidelines

This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance.

1. Before installation, carefully check whether there is physical damage on any part of the pump including electrical cable and plug. Contact the seller if damage is found.
2. Ensure the pump is disconnected from the power source before performing any procedure (handling, inspection, installation, etc.). Allow the pump surface to cool to ambient temperature by waiting for at least 30 minutes.
3. Ensure the site's power supply meets requirement as stated on the rating label. Pump must be earthed.
4. Ensure fittings and joints are watertight.
5. Tie a rope on the handle to move the pump up and down. Never drag the electrical cable as it may cause electrical hazard.
6. The power supply connected to the pump must be protected by RCD or other protective device according to Australian standard and regulations.
7. Do not touch or move the pump before disconnecting it from the power supply.
8. Ensure all electrical connection is away from water or area subject to flooding.
9. If the pump is idle for a long period of time, it must be removed, cleaned and stored in a dry & cool place.
10. The pump must be installed by a qualified technician.

Notes:

- The maximum immersion depth of the pump is 5m
- Pollution of the liquid could occur due to leakage of lubricants
- A protective device (RCD) must be installed with pump (residual operating current <30mA)











Warranty

Please visit our webpage for warranty details- (<https://www.bromicplumbing.com/warranty-information/>)
Read all relevant documentation before operating the pump.
Failure to follow instructions may result in warranty being voided

Troubleshooting

Fault	Possible Cause	Solutions
The motor does not start	No or incorrect power supply	Ensure power supply is as per rating label
	Fuse or thermal relay disconnected	Consult service provider
Flow is insufficient	Water inlet blocked	Remove blockage
	Total manometric head higher than expected	Verify geometric head and reposition
	Discharge pipe not joined properly	Check the joint, ensure there is no leak
	Source water level is low	Reposition pump or stop pumping
No Flow/Flow is insufficient	Impeller/cutting mechanism is worn out or blocked	Try to remove the blockage or contact dealer
Others		Consult service provider

Warnings

-  Danger: Keep the pump equipment away from children.
-  Danger: Do not operate the pump in locations classified as hazardous.
-  Warning: The pump is designed for wastewater, agriculture application containing soft solids. Not suitable for sand gravel or any hard particles to prevent abrasion on the cutting mechanism.
-  Warning: The pump is designed for water only, used on chemicals or corrosive liquid will damage the pump and void warranty.
-  Warning: Do not use the pump for liquid exceeding 40°C.
-  Warning: Never run the pump dry, dry operation will permanently damage the pump and void the warranty
-  If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard
-  The pump must not be used when people are in the water
-  The pump must be supplied through a residual current device (RCD) having a rated residual operating current not exceeding 30mA
-  Disconnect the pump from the supply mains power before carrying out any user inspection, maintenance etc, as the cutting/grinding device is exposed and could cause injury if not handled properly.

Cleaning the Appliance Externally

Rinse with clean water. Remove stubborn contamination with a brush and detergent, then rinse with clean water. Submerge the pump in a container with clean water and switch on for a short time to rinse the inside of the pump.

Cleaning the Suction Area

Clean all accessible insides of the casing. Remove fibres which have wound around the rotor shaft by opening the pressure connection. Remove stubborn contamination with a brush and detergent, then rinse with clean water.

WATERBOY™

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PLUMBING & GAS

BROMIC Pty Ltd

10 Phiney Place, Ingleburn, NSW 2565 Australia

AU 1300 276 642 NZ 0508 276 642 E plumbing@bromic.com W bromicplumbing.com