

JET PUMPS

SKU	Model	Power (kW)	Current 230V/50Hz	Head (m)		Rated Flow (L/min)	Connections		IP rating
				Max	Rated		Inlet	Outlet	
7575101	40L	0.37	2.4A	37	20	25	1" BSP	1" BSP	55
7575100	60L	0.75	5.2A	45	25	40	1" BSP	1" BSP	55
7575107	80L	1	6.2A	50	30	50	1" BSP	1" BSP	55

DESCRIPTION

Bromic Waterboy Jet Pumps offer solutions for domestic household pressure systems and garden irrigation. It is powered by an electric motor that contains and drives an impeller/centrifugal pump. The impeller moves water, through the Jet Pump and increases the pressure of the water, to assist in areas where high suction lift is required (e.g. double-story homes). It is designed for use with Clean Water and backed by a 2 Year replacement Warranty.

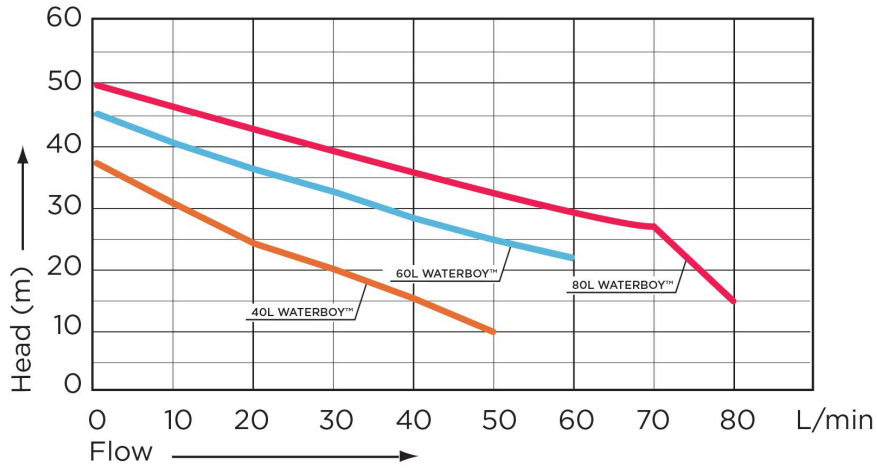
SPARE PARTS

SKU	Description
7575143	40L Jet Pump housing hexagonal bolt M6x16 (#4)
7575142	40L Jet Pump SS Housing (#5)
7575141	40L Jet Pump housing o-ring d131x3.5 (#6)
7575164	60L Jet Pump housing hexagonal bolt M5x10 (#5)
7575163	60L Jet Pump housing hexagonal bolt M5x18 (#6)
7575162	60L Jet Pump SS Housing (#7)
7575161	60L Jet Pump housing o-ring d151x4.5 (#8)
7575183	80L Jet Pump housing hexagonal bolt M6x20 (#5)
7575182	80L Jet Pump SS Housing (#6)
7575181	80L Jet Pump housing o-ring d154x3.5 (#7)
7575317	600mm SS hoses for kit. 20mmID. (also need bolts and nuts to connect)

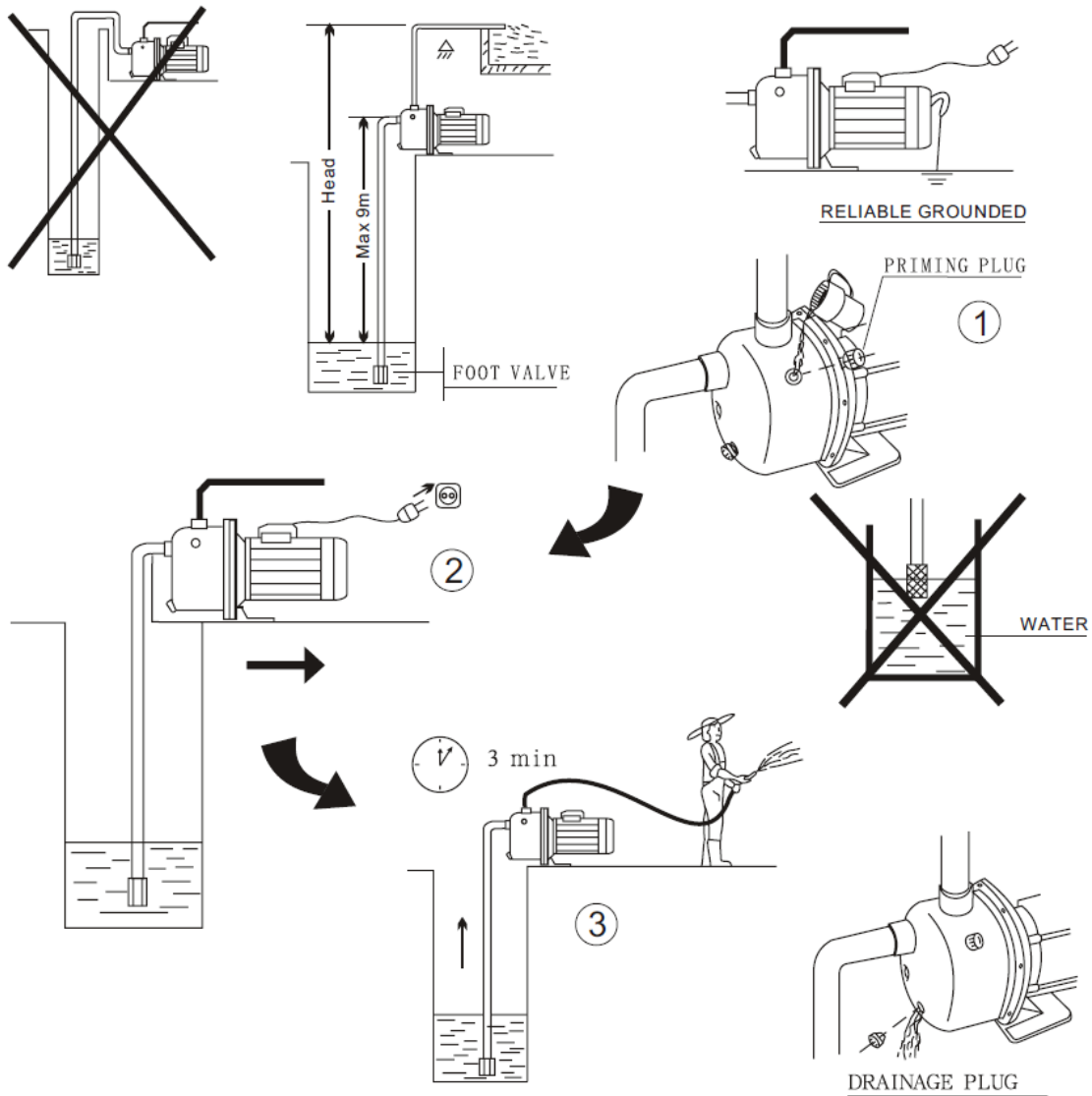
FEATURES

- Horizontal self-priming pump
- Stainless steel housing
- Ideal for pumping clear water
- Economical and compact
- 2-year warranty
- Applications: Residential wells, Aquariums, Garden irrigation, Domestic and commercial properties, water tanks, draining sump or well, Lifting or elevating liquids, Aeration or agitation, Producing vacuum, Boosting suction pressure to centrifugal pump.

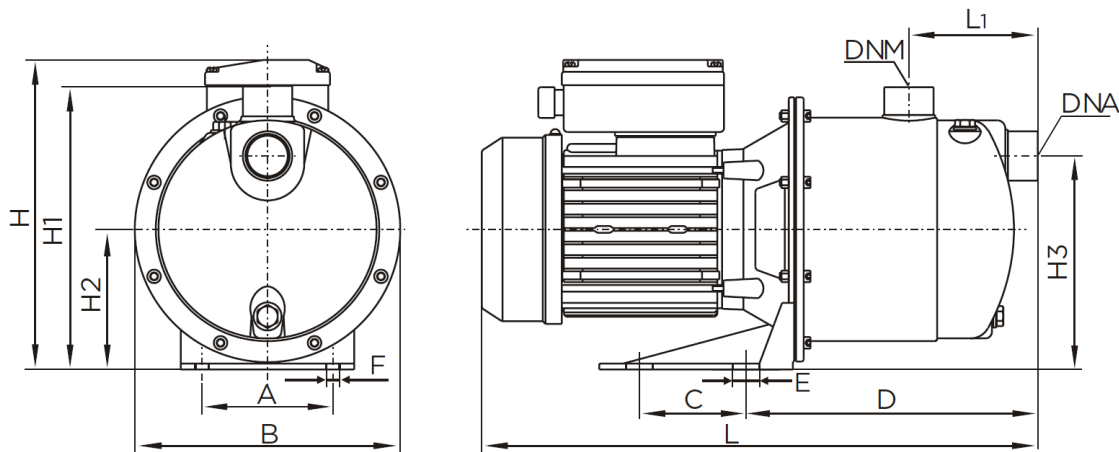
FLOW PERFORMANCE CURVE



SET UP



OVERALL DIMENSIONS



Bromic Part #	Model	A	B	C	D	E	F	H	H1	H2	H3	L	L1	DNA	DNM
7575101	40L PUMP	100	170	-	197	20	10	182	178	88	128	365	88	G1	G1
7575100	60L PUMP	98	184	-	160	20	10	228	202	98	148	354	80	G1	G1
7575107	80L PUMP	98	198	80	219	20	10	232	212	105	160	417	97	G1	G1

1. SPECIFICATION

This manual contains essential information on the installation, operation and maintenance of Bromic electro pumps. Please read it thoroughly. Bromic pumps, are centrifugal horizontal electro pumps with self-priming capacities. The pumps are supplied with century systems to attain suctions pressure of up to 9 Metres. When a foot valve is connected, the pump will immediately self prime. Bromic pumps have been designed to operate with clean water only, at a maximum temperature of 45°C. Other water types, must not be used. Bromic pumps have tested under Bromic stringent test conditions. All Bromic pumps conform to hydraulic and electric testing.

It is critical to follow these instructions including the electrical chart in order to install the pumps correctly. Failure to follow these instructions may result in motor overcharging and any other malfunctions. Bromic is not liable should instructions not have been followed.

2. INSTALLATION

The electric pumps must be placed as low as possible below the water level in order to obtain the maximum suction lift.

For permanent installation of the pump, the pump should be attached to the floor or ground using the appropriate holes in pump bracket. The pump should be installed in a dry flood proof area.

3. PIPE ASSEMBLY

The suction pipe must not be “kinked” be or restricted and must be submerged 30 cms below water level. This will prevent the formation of whirs and air suction pockets. Air will

leak if suction exceeds 7 Metres. The use of a pipe with a larger diameter than the admission port of the pump is recommended. The connections must be water-tight. It is recommended to reduce pipe bends to a minimum inclination of 2%. The discharge pipe should have a diameter equal or larger than the outlet pipe on the pump. The suction and discharge pipes must not rest on the pump.

4. ELECTRICAL CONNECTION OVERALL DIMENSION

Electrical installation must only be completed by an authorised and trained technician in line with Australian safety regulations. The electric installation should be provided by a system of multiple separations with contact openings of at least 3 mm. The protection of the system will be made by a differential switch (1fn=30mA.) The electric cable must correspond with Australian standards and be sufficient for the load generated. The single phase motors have a built-in thermal protection. Look at the schematic drawing on Fig(1) for a correct electrical connection. KEEP AWAY FROM CHILDREN.

5. CONTROLS PRIOR TO THE INITIAL STARTING

Check that the voltage and frequency of the electric supply correspond to that indicated on the technical characteristics label. Make sure that the shaft rotates freely. Fill pump body with water, unscrewing slightly the priming plug. Verify the motor sense of rotating as indicated on the fan cover. THIS PUMP SHOULD NEVER BE DRY OPERATED.

6. STARTING

Open all gate valves installed in the suction (LINE), connect to the electric supply switch, wait for the priming to be completed. If a foot valve has been installed, the priming will be instantaneous. If the motor fails to start, or does not deliver water. Refer to our troubleshooting guide with the possible problems and subsequent actions to take.

7. MAINTENANCE

Bromic electro pumps do not require special maintenance. The pump body must be drained during periods of low temperatures (temperatures below 1°C) or long period of inactivity. If the pump is inactive for over 60 days, the pump should be cleaned and stored in a dry and ventilated place.

TROUBLESHOOTING

System Problem	Possible Problem	Solutions
The motor does start. Motor starts and stops continuously.	Pump blocked.	Disconnect it and call Bromic customer service.
Flow is insufficient	Foot valve clogged	Clean it or replace by new one
There is no suction. Flow is insufficient	Total manometric head higher than expected	Verify geometric head and loss of head.
The motor does not start. Motor over-heating. Motor starts and stops continuously.	Wrong tension	Check that the tension is the same as that on the technical characteristics label.
There is no suction. Motor runs but it gives no pressure. Flow is insufficient.	Water level in well or tank has come down.	Verify suction head.
The motor does not start.	Fuse or thermal relar disconnected	Change fuse or thermal relar.
Motor runs but it gives no pressure. Flow is insufficient.	Impellers are worn out.	Disconnect pump and take it to your Service Dealer
There is no suction. Motor runs but it gives no pressure.	Foot valve not submerged	Be sure suction pipe is submerged.
There is no suction. Motor runs but it gives no pressure	Pump was not primed	Fill pump body with water
Motor over-heating. Motor starts and stops continuously	Room not properly aired	Provide good ventilation
There is no suction. Motor runs but it gives no pressure	Air entry	Disassemble and take it to your Service Dealer
Flow is insufficient	Venturi clogged	Seal unions and joints properly

FAQS

Which pump should I use? Contact a plumber to calculate the required flow rate and pressure for the installation (which depends on, the length, height, and diameter of pipes and how many taps it will serve) and from there we can advise which pump will suit.

Why is my pump is noisy? The jet pumps do produce some noise when in operation, although if the noise sounds odd or uneven, there may be a problem. The impeller could be damaged (due to the pump running dry, or something stuck), or bubbles could be present (cavitation) which causes noise and also damage. Prime and purge pump with water so there are no bubbles present.

How do I prime my jet pump? There are instructions in the instruction manual which include pictures of where the metal bolt at the top of the metal part of the pump next to the outlet hose, unscrew and fill up with water with a jug.

How do I drain my jet pump? Unscrew the metal bolt at the back near the bottom of the metal part of the pump to drain water out. Can also tip the pump without breaking connections to drain more.

Do these pumps have watermark approval? No, they are not required to have watermark approval. They have AS4020 approval for drinking water.

Where is the start switch for my jet pump? It will work when it is primed with water and the power is plugged in.

How do I increase the pressure? Check on the flow vs head chart. If you decrease the flow the pressure will increase. More pressure can also be achieved with less bends and height in the piping. $\text{Pressure} = \text{head} * 9.81 * \text{specific density}$

Can I use the pump in an area that gets cold or freezes? Shouldn't use this pump if its in a place where water freezes. Water will expand when it freezes inside the pump and will cause the pump to crack. The water should be fully drained from the pump and pipes during these periods.

My jet pump is constantly running and not shutting off. Either there is no controller connected or it is not plugged in correctly. Read instruction manual to see how to connect the controller.

Which controllers are compatible? We have a 3kW pressure controller (7575372) which controls the pump supply for the rainwater. We have a hydro switch (7575029) which can be added to this controller to allow the mains water to be connected so water can be supplied even if there is no tank water.

END TECHNICAL DATA SHEET