

Owners Manual

MidJet Spa Bath Pump



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MidJet Spa Bath Pump

Congratulations on the purchase of your new MidJet spa bath pump. The MidJet spa bath pump has been specifically designed for spa bath applications to ensure that you have optimum spa jet performance and many years of trouble free operation.

The MidJet pump internal design allows the water to self drain so that there is no residue water left in the pump when the spa is emptied in accordance with Local Health Regulations.

MidJet spa bath pumps are designed for spa bath operation only and should not be used in chemically treated water or any other purpose without seeking written approval from Edgetec Systems Pty Ltd for the application.

MidJet Pump Operation Guide

- **Auto-Heat:** The “Auto-Heat” MidJet will help maintain your spa bath water temperature during your spa by heat transfer. This pump is activated by the air button installed on your bath.

Installation Instructions (refer diagram 1)

1. To ensure optimum performance of your spa bath, the MidJet pump should be located as close as possible to your spa bath. To ensure high efficiency of your MidJet pump, use the minimum amount of pipe fittings during your pump to spa bath installation. Correct installation allows water to drain from pipe work to pump and from pump to the self drain suction fitting in the bath.
2. The pump can be located internally or externally. If you are fitting the pump externally, we recommend that the pump have a protective cover with adequate ventilation (minimum area 50mm²).
3. **Internal installation must have adequate ventilation (minimum area 50mm²) for the pump motor. Inadequate ventilation may cause the motor to over heat and cut out on thermal over load.**
4. Install the MidJet pump as per diagram 1 (using the least amount of elbows, if required). It is most important that the suction line be installed with a minimum of 5° gradient (refer Diagram 1) as this allows the water to drain from the pump and pipe work when the bath is emptied.
5. **The pump should never be installed as shown in diagram 2**
6. The pump return line should be installed below the water level of the bath, if the return line is above the water level the pump can air lock and may not prime (pump will start but the spa bath jets are not operating).
7. The pump is to be fixed to the frame or support through the pump mounting points in the pump base (refer Diagram 4) with appropriate fasteners. Two anti-vibration isolation washer buttons are provided with the pump for the fasteners.
8. Barrel union nuts only require to be hand tightened, over tightening may cause damage to the unions and or o rings. **Do not use stillsons or any other mechanical leverage.**
9. **Before connecting the pump to the pipe work, ensure that all the pipe work is clear of any debris as small particles can cause blockage to spa jets or the pump impeller causing serious damage.**
10. Installation of the MidJet pump must have access for servicing the pump or pipe work. **Service access panel must be provided for every installation.**

Electrical Connection

1. Spa bath pumps must be fitted in accordance with the relevant national wiring rules and electrical standards, particularly AS 3000 or equivalent.
2. The MidJet spa bath pump is fitted with a standard lead and three pin plug for 240-220V 50Hz power supply.
3. The spa bath pump power connection must be accessible so that it can be independently switched off in case of an emergency but must not be accessible by the bath user.
4. Edgetec highly recommends that the pump be supplied by an isolating transformer or supplied through a residual current device (RCD) with a rated residual operating current < 30 mA.
5. If damage occurs to the power cord it must be replaced by Edgetec or an authorised service agent or suitably qualified person.



Your spa bath pump should be installed on a well drained location or on a suitable drain tray to avoid water damage to property should any leaks occur from pipe work, connections or normal wear.

Air Tube Connection (refer diagram 3)

1. Supplied with your spa pump is a 4 metre roll of 3mm clear air tube, fit one end of the air tube to the air button (supplied with the spa bath) on the spa bath.
2. Uncoil the air tube so that you can connect it to the air switch located at the rear of the pump motor on the capacitor cover (refer diagram 3).
3. ***Cut off excess tube and ensure that the tube is not kinked, do not wrap or loop excess tube around frame work of the bath or pipe work as this may cause the air button not to operate correctly.***

Start Up

1. Fill the spa bath to approximately 50mm above the spa jets, check the pump and pipe connection for any leaks.
2. Ensure that the pump power outlet is switched to the "on" position.
3. Press the air button on the spa bath, the pump will start and purge the air from the system and your spa will start to operate. To stop the spa, simply press the air button again.



Never run your spa pump without water as this can cause serious damage to the mechanical seal which may cause the spa pump to leak. Running the pump without water will void your warranty.



This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience or knowledge, unless they have been given supervision or instructions concerning use of the



Young children should be supervised to ensure that they do not play with the appliance.

Diagram 1 Correct Spa Bath Pump Installations

Use 40mm and or 25mm UPVC Pressure Pipe for plumbing installation

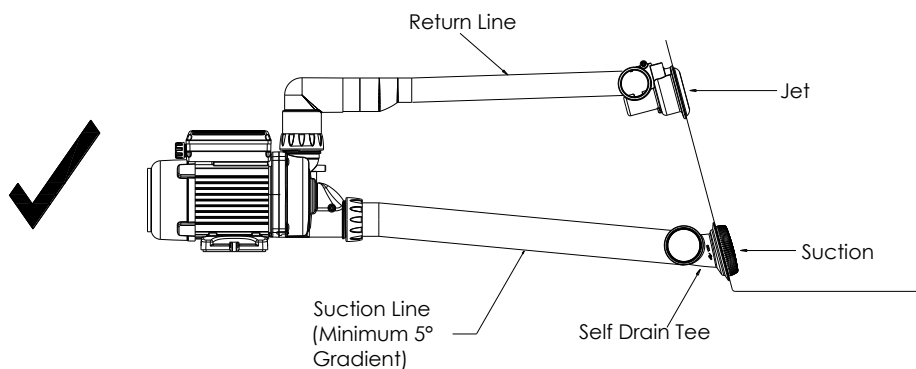
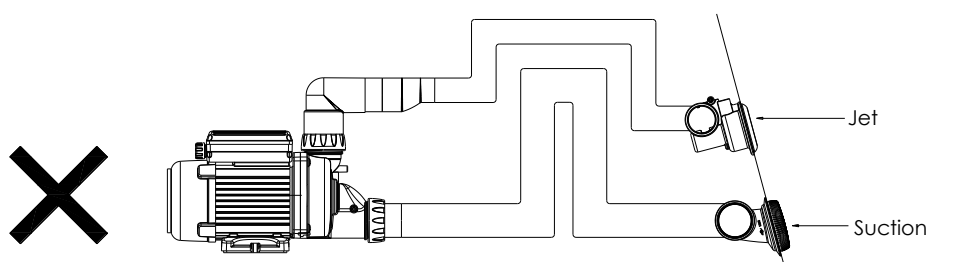
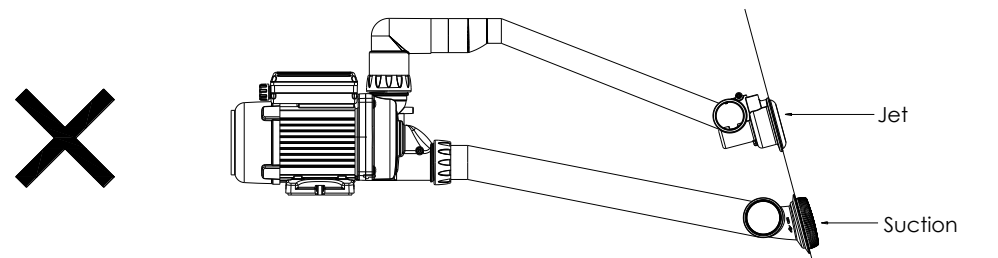
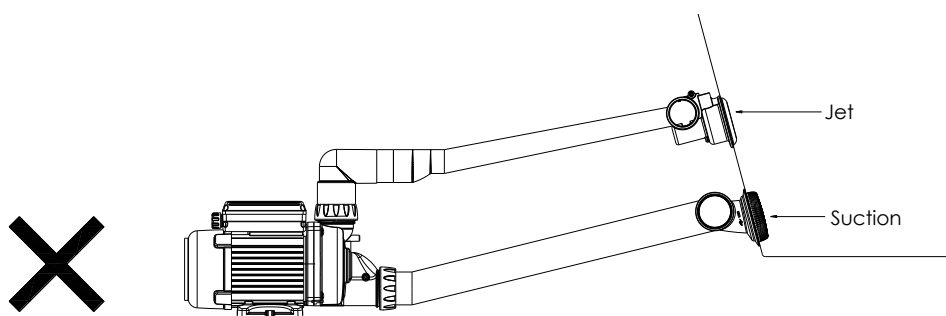


Diagram 2 Incorrect Spa Bath Pump Installations



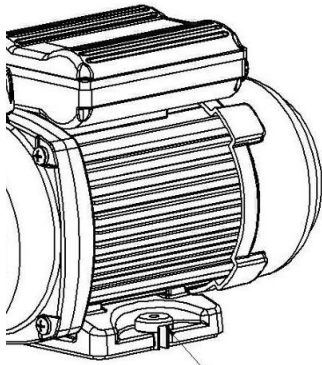
Pump Specifications

Pump Model	Supply Voltage	Power (watts)	Heater (watts)	Current (amps)	Length (mm)	Width (mm)	Height (mm)
MJ037-AH-50	230-240	375	0	2.6	305	138	169

MidJet Technical Data

Diagram 3: Air Tube Connections

Attach 3mm flexible air tube
(Supplied with pump)
onto air switch nipple.



Mounting Point

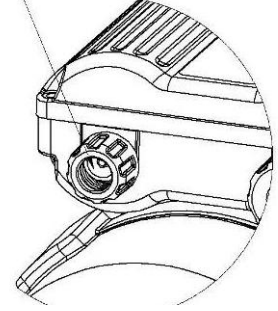


Diagram 4: Mounting Point

Trouble Shooting Guide

Symptom	Possible Cause	Remedy
Spa Pump will not start	Air tube is not connected	Check to ensure that the air tube is connected to the air button on the spa bath and the air switch on the pump.
	Air Tube is kinked	Check to ensure that the air tube is not kinked or wrapped around the frame work as this will stop the pulse of air required to come from the air button.
	Air button is not operating	Check to ensure that the air button is clear of debris (i.e. tile grout) and that the air button plunger moves freely.
	Mains Power to Spa pump is not switched on (no power to the power point)	Check that the power point is in the "on" position and active. Check circuit breaker in the fuse box
	Pump is not priming (pump runs but no water is coming out of spa jets)	Pump not installed as per Diagram 1 (correct spa bath pump installations), Install pump as per diagram
	No water coming from Spa Jets	Most spa jets are now adjustable ensure that all the spa jets are in the open position by rotating the jet face.
	Faulty Air switch in the pump	Contact service technician.

Edgetec Product Warranty

Edgetec Systems Pty Ltd warrants that the items sold hereunder shall be free from defects in material and workmanship for a period of one (1) year at the time of the original purchase date.

Terms & Conditions

1. This product is to be installed in accordance with the installation and operating instructions provided failure to do so will void your warranty.
2. The product warranty does not cover:
 - fair wear and tear, negligence, misuse or abuse,
 - incorrect installation or running the pump dry,
 - water damage from external sources or inadequate ventilation,
 - cement or other building debris blocking the pipe work or impeller,
 - chemically treated water,
 - high voltage spikes or acts of nature,
 - repairs by unauthorised persons,
 - Incorrect voltage.

Edgetec Systems Pty Ltd has service agents throughout Australia, should you require warranty service please contact our service department for your nearest service agent.

Edgetec Systems Pty Ltd shall not be liable for any incidental or consequential damages. No unauthorized personnel can make any warranty representation on the behalf of Edgetec Systems Pty Ltd unless with their written permission.

Commercial Installation

Commercial installations have limited warranty of 6 months from date of purchase. Edgetec Systems Pty Ltd shall not be liable for any incidental or consequential damages.



Proudly Australian Owned

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