

# OWNER'S MANUAL

# Flotec®



## Jet Assisted Garden Pump **AUTOJET-40**

**We recommend, for additional protection, the pump to be supplied from socket outlet protected by a Residual Current Device – RCD (also known as an Earth Leakage Circuit Breaker – ELCB) with a maximum rated residual current of 30mA.**

Should you the installer or owner be unfamiliar with the correct installation or operation of this type of equipment you should contact the distributor for the correct advice before proceeding with the installation or operation of this product.

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## Model Data

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Technical Information	AUTOJET-40
Inlet Connection	1" BSP Female
Outlet Connection	1" BSP Female
Power Supply	230V
Voltage Limits (+/- 10%)	207-253V
Impeller (s)	Noryl
Pump Case	Stainless Steel
Mechanical Seal	Carbon/Ceramic
Motor	TEFC IP44
Maximum Water Temp [°C]	60 °C
Ambient Temp Range [°C]	0-40 °C

## Application

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The Flotec AUTOJET-40 pump is suitable for pumping clean water in an urban garden environment from a rainwater tank or similar rain harvesting device.

# Installation

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The electrical installation shall be in accordance with the national wiring rules (AS/NZS 3000) for class 1, IP44 rated products.



These instructions are a guide only. Users not familiar with pumping equipment should seek advice from people experienced in pump equipment and installation.



Freezing conditions will damage the unit, because when water freezes it expands. Ensure that the pump is located so that it is not prone to freezing, or ensure that the product is disconnected and dried of water during cold conditions.



The pump is electrically connected. Ensure that it is isolated from electrical supply during installation and any subsequent service work.



The pump is designed to be used with clean water in a residential application. Do not use it with alternative fluids, abrasive, corrosive or explosive fluids. Do not install or operate your pump in an explosive environment or near combustible matter.



Incorrectly installed or tested equipment may fail, causing severe injury or property damage.



Fire and burn hazard. Modern motors run at high temperatures. To reduce risk of fire, do not allow leaves, debris, or foreign matter to collect around the pump motor. To avoid burns when handling the motor, let it cool for at least 20 minutes before trying to work on it. A thermal overload switch protects the motor for heat damage during operation.

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Read the following instructions in this owner's manual when installing and operating equipment.

## 1. Preparation for Installation

Inspect your pump for shipping damage. Report any damage to your Dealer. Make sure the suction piping is free of air leaks and is laid so that there can be no airlocks.

Warranty of these pumps is void unless they are operated in accordance with this owner's manual.

## **2. Pump Protection**

The pump should be protected from the weather, floods, chemicals, dust, vermin, insects etc. It is highly recommended that the pump be housed in a weather proof, well vented enclosure. If the pump is not adequately housed the warranty may be deemed void.

## **3. Not recommended for connection with a mains Pressure Hot Water System**

## **4. Pipe Installation**

Pumps can be damaged if care is not taken when connecting pipes. Pipes should be supported so that the pump casing is not strained by the weight or misalignment.

We recommend the pump and pipe are coupled using flexible type polythene pipe, rubber hose or a multi-directional barrel union. This union coupling can also be used to remove the pump for service should it be necessary without having to cut pipes.

Pipe fittings should be carefully screwed onto the pump making sure not to cross-thread or overtighten. We recommend the use of a moulded pipe fitting to connect to the pump as this avoids possible damage to the pump threads and unnecessary replacement of parts.

For best results use teflon tape to join seal joint. Satisfactory sealing can be achieved by hand tightening fittings ensuring that no leaks are evident once under pumping pressure.

## **5. Locating the Pump**

Find a location for your pump as close to your water source as possible.

Ensure that this location is on a separate footing from your home. To do this you can mount the pump on a concrete tile or concrete base.

## **6. Power Source**

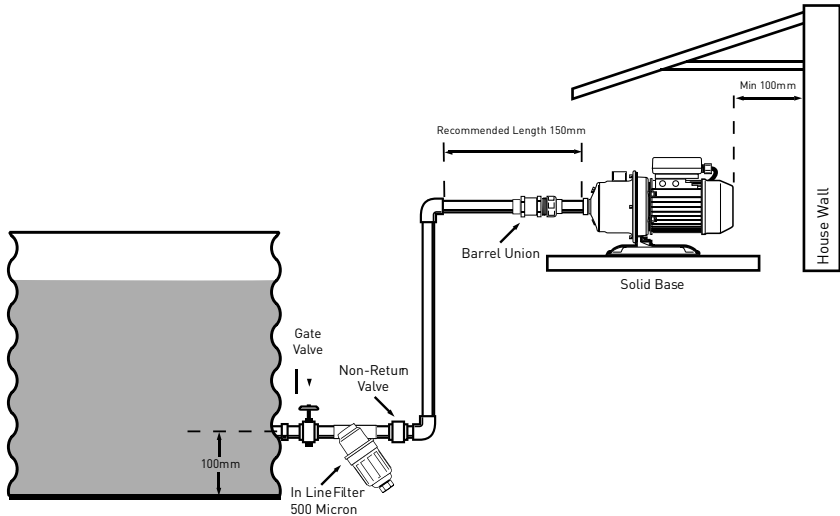
Arrange for an electrician to install an outdoor 10A GPO electrical outlet within 2 metres of the pump if there is not one there already.

## **7. Suction**

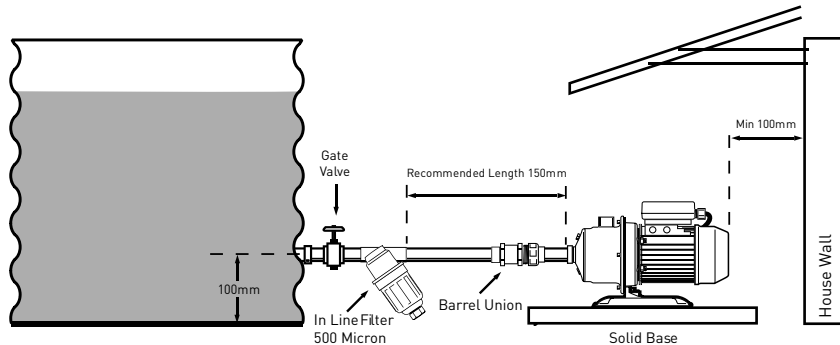
This is the most important part of the installation as errors will cause significant problems for the system in performance and longevity.

**IMPORTANT:** A gate valve must be installed at the tank outlet.

## A) Installations where the tank base is below the pump



## B) Installations where the tank base is level with the pump



To maintain optimum performance from your pump, the suction pipe should be:

- Kept to the shortest distance practical, but not shorter than the recommended length.
- Re-enforced crush resistant (non-collapsible) hose or pipe.
- All fittings should be air tight.
- Pipes should be equal to or larger than the diameter of the suction/inlet port.
- Optional: Fitted with a suction Strainer/Filter
- 25mm pipe size (1")

In-line strainers/filters are only recommended for pumps fitted with Minipress. Regular maintenance is required to keep them clean and provide maximum pump pressure.

## **7. Discharge**

The length and diameter of the discharge hoses/pipes will affect the pressure and flow rate at which your pump operates. Pressure ratings of all components must exceed the maximum pressure of the pump by an appropriate safety factor. All pipe work should be supported independently of the pump.

Connect the fitting at the top of the pressure controller (1" BSP Male) to the household plumbing or garden taps\*.

*\*If you want to test that the pump is operating correctly prior to having the plumbing connected, attach a hose with a trigger nozzle to the top of the pressure controller.*

## **8. Pump Priming**

Ensure that there is at least 200mm of water in your tank, (i.e. that the tank outlet is covered, and the pump will not draw any air into the system). Open the gate valve on the tank. Check for any leaks, and repair these if necessary.

If no leaks are present, remove the priming plug to open the priming port on the top of the pump case.

If your tank is below the level of the pump (diagram A - page 4), you will need to fill the pump body and suction line. Remove the priming plug and fill the pump body and suction line using a funnel.

If the tank is above the level of the pump (diagram B - page 4), water will start to run out of this port. Replace the priming plug carefully. Your pump is now ready to run. (Note: If a check valve is installed in the suction line, water may not fill the pump. It may be necessary to fill the suction line/pump casing with water using a funnel.

## **9. Electrical Installation**

The pump is supplied with an IEC interconnection appliance coupler. Connection to the power supply is a matter of inserting the plug into the suitable socket outlet. Connect the pump using the IEC interconnector to the Minipress before plugging the power supply cord into the socket outlet. Ensuring there are no water traces on the connectors push them firmly into each other to ensure intended splash (water) proof protection. This connection shall be separated again only for service purpose and only after the power supply is removed by unplugging the cord from the socket outlet. The socket outlet shall be in a dry and flood free location; preferably do not use extension cords for this very reason and because they can cause voltage drop.



Supply voltage outside limits specified in Model Data can cause motor overheating leading to overload tripping, reduced component life or seriously damage pump and voids warranty.

We recommend, for additional protection, the pump to be supplied from socket outlet protected by a residual current device – RCD (also known as an Earth Leakage Circuit breaker – ELCB) with a maximum rated residual current of 30mA.

## Operation

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The pump operator or owner must be provided with this owner's manual. This must be read before operation, and followed during operation.



Ensure that your pump is filled with water before operating.



The pump is designed to be used with clean water in a residential application. Do not use it with alternative fluids, specifically abrasive, corrosive or explosive fluids. Do not install or operate your pump in an explosive environment or near combustible matter.



Fire and burn hazard. Modern motors run at high temperatures. To reduce risk of fire, do not allow leaves, debris, or foreign matter to collect around the pump motor. To avoid burns when handling the motor, let it cool for at least 20 minutes before trying to work on it. A thermal overload switch protects the motor for heat damage during operation.



### **DO NOT RUN PUMP DRY**

Ensure that your pump is filled with water before operating

## 1. Start-up / Operation

When the power is turned on, the pump will start, and stop as soon as it has pressurised the system it is connected to. If the pump does not start, press the 'restart' button on the front of the pressure controller. Open a tap, (or garden hose nozzle) and the pump should start and deliver water. When the tap is closed, the pump will stop once pressure is built up in the system. The system is now working correctly.

If no water is delivered, check the troubleshooting section of this manual, and additionally, refer to the pressure controller installation and operating instructions packaged with the controller.

## Service and Maintenance

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Pump should only be serviced by qualified personel.



To avoid dangerous or fatal electrical shock hazard, turn OFF power to motor and remove plug from power outlet before working on pump or motor.



Liquid may be HOT, release pressure with care before servicing.

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### 1. General Care and Maintenance

No lubrication or regular maintenance is needed beyond reasonable care. When pump is not in use for a long period of time, empty the pump, rinse it with clean water and place it in dry storage.

In order to prevent possible failures, it is advisable to periodically check the pressure supplied and power absorption. A decrease in pressure is a symptom of wear. An increase current absorption is a sign of abnormal mechanical function in the pump and/or motor.



# Troubleshooting

Symptom	Cause	Remedy
Pump does not Start	No Electricity	Ensure that the pump is connected to a live outlet.
		Check Circuit breakers and Fuses
	Pressure Controller has detected that there is not water in tank.	Check that there is enough water in the tank, then press the "reset" or "Start" button on the pressure controller.
	Pump is blocked	Disconnect the pump from the power outlet, and check the pump housing and discharge for foreign matter.
	Defective Capacitor	Call qualified service technician
Pump will not stop, even though there is no taps open.	Debris is caught in the pressure controller	Take the pressure controller to your dealer for service.
	There are leaks in the household plumbing	Find and fix leaks
No Water From Pump	Pump is not primed	Ensure that pump body and suction line are filled with water before starting.
	Suction line is leaking	Check the suction line for leaks especially at joints.
	Blockages in the pump or discharge	Disconnect the pump from the power outlet, and check the pump housing and discharge for foreign matter
	Valves Closed	Check all valves on the tank, pump, and outlets.
	Not enough water in the tank to pump.	Wait until there is more water in the tank. Press the 'reset' or 'start' button on the pressure controller.
	Pump does not produce enough pressure	Check and clean pump
	Pressure Switch is out of adjustment	Check system pressure and adjust accordingly
	In-Line filters or tap filters are blocked	Clean filters

Pump Runs Intermittently	There are small leaks in the household plumbing	Find and fix leaks
	Water Temperature is too high	Ensure the water temperature limits are observed
	Voltage is outside allowable limits (see specifications)	Check voltage level being delivered, and correct where necessary
	Not enough air flow to cool motor	Provide adequate ventilation to motor cooling fan
Poor Performance - low pressure or flow.	Suction line is leaking	Check the suction line for leaks, especially at joints
	Tank water level is too far below the pump.	Talk to your dealer about a better pump for your situation, or move the pump closer to tank.
	Pump is worn or damaged	Ask your dealer to investigate worn parts.

***Should problems persist, contact your nearest Service Agent.***

## **Pentair Product Warranty**

Pentair warrants that, when this product is used for the purpose it was designed, is correctly housed and vented against weather, vermin, dust etc., that it will be free of material and manufacturing defects at the time of the original purchase. **This warranty is limited to the cost of the product and does not cover third party costs including the costs of electricians, plumbers, etc. unless authorised by Pentair.**

### **1) YOU SHOULD CAREFULLY READ THE INSTRUCTIONS SUPPLIED PRIOR TO USING THIS PENTAIR PRODUCT.**

This product is to be installed and operated in accordance with the instructions provided. This warranty will not apply if it is used in a manner other than in accordance with the instructions.

#### **What the warranty covers:**

Pentair warrants its products to be free of defects in material and workmanship during the warranty period. If a product proves to be defective in material or workmanship during the warranty period, then Pentair will, at its sole option repair or replace the product with a like product. Replacement product or parts may include re-manufactured or refurbished parts or components.

#### **How long the warranty is effective:**

- 1) This Pentair product is warranted for 12 months for all parts from the date of the first consumer purchase.
- 2) Where this Pentair product is sold for commercial application as defined in the relevant Trade Practices and Consumer Protection legislation the warranty shall be for a period of six months from the date of purchase by the end user.

**Who the warranty protects:** This warranty is valid only for the consumer purchaser.

#### **What the warranty does not cover:**

- 1) Damage, deterioration or malfunction resulting from:
  - a) accident, misuse, negligence, fire, water, lightning, or other acts of nature, unauthorised product modification or failure to follow instructions supplied with the product;
  - b) repair or attempted repair by anyone not authorised by Pentair Water;
  - c) any damage to the product due to shipment;
  - d) removal or installation of the product;
  - e) causes external to the product such as electric power fluctuations or failure;
  - f) use of supplies or parts not meeting Pentair Water specifications;
  - g) normal wear and tear;
  - h) water ingress or exposure to abnormal corrosive conditions or "run dry" conditions;

## **Pentair Product Warranty (Continued)**

i) any other cause which does not relate to a product defect.

2) Damage caused to the product as a consequence of use of another manufacturer's product used in conjunction with Pentair and affiliate companies.

3) Ingress of insects into the unit causing electrical malfunction is not warranted, care should be taken to avoid this occurrence.

### **Spare Parts:**

Spare parts are usually stocked for a reasonable period of time following last production. Pentair does not warrant that spare parts will be made available for the whole of the reasonable period and reserves its right to cease supplying spare parts or providing facilities for repair of spare parts in circumstances which are beyond its control including the requirement to remove spare parts from sale as a consequence of changes in the law or otherwise as it deems fit.

### **How to get service:**

In Australia please contact 1800 664 266 In New Zealand please contact 0800 664 269

Claims under this warranty must give evidence of date of purchase, model and serial number of the product and the claimants name, address and telephone number.

1) To obtain warranted service, you will be required to provide to either Pentair state office or recommended service agent:-

- a) the product;
- b) confirmation in writing specifying the nature of your claim;
- c) proof providing date of original purchase;
- d) full contact details including name and address;
- e) the serial number of the product if any.

2) The product is to be forwarded by the customer freight paid to an Authorised Pentair service agent.

3) Warranty service work will be denied or suspended, on equipment not readily accessible to service personnel, that is products that are behind barriers, tiled or bricked in, installed in roofs or second story external walls including inaccessible power points.

4) Any service of any product which is found to be faulty due to abuse, fair wear & tear, misuse or improper installation will be charged to the owner at the service agents current servicing hourly rate.

### **Limitation of implied warranties:**

THERE ARE NO WARRANTIES, EXPRESSED OR IMPLIED, WHICH EXTEND BEYOND THE DESCRIPTION CONTAINED HEREIN INCLUDING THE IMPLIED WARRANTY OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

### **Exclusion of damages:**

PENTAIR LIABILITY IS LIMITED TO THE COST OF REPAIR OR REPLACEMENT OF THE PRODUCT.

Pentair SHALL NOT BE LIABLE FOR:

1) DAMAGE TO OTHER PROPERTY CAUSED BY ANY DEFECTS IN THE PRODUCT, DAMAGES BASED UPON INCONVENIENCE, LOSS OF USE OF THE PRODUCT, LOSS OF TIME, LOSS OF PROFITS, LOSS OF BUSINESS OPPORTUNITY, LOSS OF GOODWILL, INTERFERENCE OF BUSINESS RELATIONSHIPS, OR OTHER COMMERCIAL LOSS, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

2) ANY OTHER DAMAGES, WHETHER INCIDENTAL, CONSEQUENTIAL OR OTHERWISE.

3) ANY CLAIM AGAINST THE CUSTOMER BY ANY OTHER PARTY.

### **Effective law:**

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state. Nothing in this warranty limits or restricts, or is intended to derogate from, any right or remedy which the purchaser or ultimate user of the product may have pursuant to Australian state and/or Australian federal consumer protection legislation, New Zealand Sale of Goods Act, Consumer Guarantees Act, Fair Trading Act or any other relevant and applicable New Zealand legislation or authority and where necessary shall so be read and construed.

## **TERMS AND CONDITIONS APPLICABLE INTERNATIONALLY**

### **How long the warranty is effective Internationally**

1) This Pentair product is warranted for 12 months for all parts from the date of the first consumer purchase.

Should any parts fail as a result of such defects within the specified period, the part will be replaced free of charge.

(This does not include travel charges, removal and reinstallation charges.)

## **TERMS AND CONDITIONS APPLICABLE IN AUSTRALIA AND NEW ZEALAND**

## IMPORTANT

Please attach your sales invoice/docket here as proof of purchase should warranty service be required. Please do not return Warranty Form to Pentair Australia  
- please retain for your records.

Purchased From .....

Purchase Date..... Serial No..... Model No.....



### Head Office

Pentair AU/NZ:

1-21 Monash Drive,  
Dandenong South, VIC 3175

### Australia

National customer service: Phone : 1300 137 344  
Fax : 1800 006 688  
National dealer locator: Phone : 1800 664 266

Email: [au.sales@pentair.com](mailto:au.sales@pentair.com)  
Web: [www.pentair.com.au](http://www.pentair.com.au)

### New Zealand

National customer service: Phone : 0800 654 112  
Fax : 0800 806 642  
National dealer locator: Phone : 0800 664 269

Email: [nz.sales@pentair.com](mailto:nz.sales@pentair.com)  
Web: [www.pentair.co.nz](http://www.pentair.co.nz)

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### Disclaimer:

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No responsibility will be taken for errors, omissions or changes in product descriptions, specifications.  
Pentair Australia reserves the right to change specifications.