

WARRANTY POLICY

Clayton Engineering warrant this product for 2 years from the date of purchase. The warranty covers manufacturer's defects in material or workmanship. The warranty does not cover malfunctions due to misuse or due to failure to follow the instructions in the instruction manual. Any alterations to the product are to be performed by a Clayton Engineering approved service agent. Any repairs performed by non approved personnel may void the warranty.

To make a claim, contact Clayton Engineering, 26 French Ave, Brendale, Q, 4500 on phone 1300 798 022 or email sales@claytonengineering.com.au. You will be asked to provide proof of purchase and then will be instructed on the procedure for repairing or replacement of the product under warranty. All costs incurred for repair or replace, and additional claims can be discussed at this stage.

This warranty is provided in addition to other rights and remedies you have under law: Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

1st January 2012.

CONTACT US

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OWNERS MANUAL CONSTANT PRESSURE SYSTEMS



Dear Customer,

Congratulations on purchasing this high quality Leader Pumps product. Please take a minute to read these installation and important safety instructions before using your new equipment.

• INSTALLATION • OPERATION • TROUBLE SHOOTING •

For any assistance or after sales service call Leader on our toll free number **1300 798 022**. Please have a look at further quality Leader products at www.leaderpumps.com.au

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TECHNICAL DATA

Model	Power	Max. Head	Max. Flow
EcoWater	600W	38 m	40 lpm
InoxWater60	800W	42 m	60 lpm
EcoTronic240	1000W	48 m	100 lpm

⚠ Caution

- Before putting your pump unit into operation, thoroughly read and follow these instructions.
- For safety reasons, the pumping unit is not to be used by people who have not previously read the instructions. It is not to be used by children.
- The pump unit is only to be installed in an electrical supply conforming to Australian Electrical Regulations 2002. This must include a IΔn = 30mA safety switch. All electrical installations are to be performed by a Licensed Electrician.
- The pump unit is to be used for clean water with temperature below 35°C. The pump must not be allowed to freeze.
- Do not raise, carry or fix the pump unit using the electrical cable.
- The pump must be covered. The pump unit is an electrical apparatus and therefore must be protected against moisture. The unit must be protected from rain, leaking fittings, water taps and / or any other form of water ingress or insect infestations.
- It is strongly advised to secure the pump by bolting it down to a concrete slab or similar.
- The pump unit must be positioned to avoid the possibility of it being flooded.
- The pump must not be used to pump salt water, sewage, flammable, corrosive or explosive liquids (e.g. petroleum oil, petrol, and thinners), grease, oils or foodstuffs.
- **Pump must be installed in an easily accessible area and with plumbing fittings that make removal of pump for servicing possible.**

Suction Line

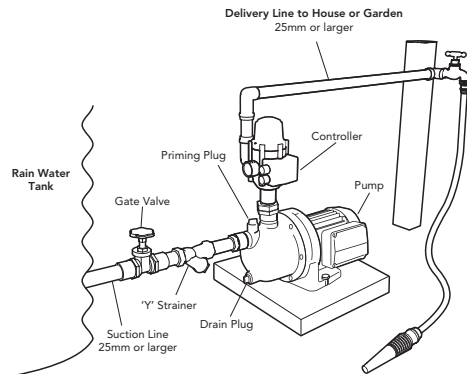
1. **Minimum 1"** gate valve or ball valve fitted to water tank. A ball valve is recommended for this application due to their superior reliability and fast action.
2. **Y-Strainers** are devices used to remove solids from flowing liquids by means of perforated stainless steel or wire mesh straining element. It must be

installed on the suction side of the pump as shown in diagram.

3. **Suction line** a minimum of 300mm of 25mm inside diameter flexible suction hose is recommended. Flexible hose will compensate for any movement in the installation. Avoid the use of elbows between the tank and the pump as these can cause cavitation.
4. Locate the pump as close to the rainwater tank as possible, preferably at the base of the water tank so that the water level is always above the pump. If the pump is located above the level of the water than a one way valve must be installed on the end of the suction line.

Discharge Line

1. The minimum recommended discharge line is 20mm inside diameter pipe.
2. If an elbow has to be fitted then install a 25mm inside diameter elbow first then use a reducer to overcome friction loss.
3. When fitting a discharge line to a garden tap, ensure that the tap is attached to either a wall or post as a permanent fixture and with at least one metre of line between the pump and the tap, this will allow the controller to operate most efficiently. Do not install taps directly above pump as this can allow water to be discharged directly onto the pumps electric motor in the event of failure of the tap or connections.



Connect Controller to Pump

1. Thread the controller inlet (25mm connection at bottom of controller) to the the 25mm outlet on the top of the pump. Pumps either have a 25mm female outlet for the controller to thread into or those with a male outlet will have a connecting piece in the box to be used. Controller will only function correctly when fitted as per diagram, vertically on top of the pump.

2. Connect the controllers electrical socket to the pumps three pin power plug.
3. Connect the controllers three pin plug into power outlet.

Operation

The controller on the pump makes the system automatic. The pump unit performs three functions:

1. Automatic pump operation: the pump starts when the tap is turned on and stops it about 10 seconds after the tap is turned off.
2. Pump protection from dry operation: The pump stops when there is no flow of water, thus preventing possible damage to the pump. This alarm is indicated by the LED called FAILURE on the front of the controller device.
3. Provides constant flow and pressure.

⚠ The pumping unit will not work if the highest point of water delivery exceeds a vertical height of 15 meters.

Starting

Before putting the system into operation, fill the pump and suction line with water. Remove the priming plug to let air escape and water to fill pump. If the water level is below the level of the pump, ensure that the suction line is equipped with an anti-backflow check-valve and fill pump with water manually. Open a tap slightly to allow the air to escape and the water to flow when the pump starts.

1. Connect the pump unit to the electrical power outlet and turn the power on. The 'POWER' LED will be on.
2. The pump starts automatically and the LED 'ON' will be on, indicating that the pump is operating. Allow the pump to operate for approximately 30 seconds to remove all air that may be in the system.
3. Close the tap. The pump will stop in approximately 10 seconds.

Auto-Restart and Dry-run protection

If no water has been pumped due to priming problems or no water in tank, the 'FAILURE' LED will indicate and the controller will turn the pump off. After 24 hours, the pump will start automatically and repeat the process. It can be restarted by pressing the 'RESET' button, or by turning the 240v power 'OFF' and then 'ON' again at any time.

Troubleshooting

Before performing any troubleshooting operation, it is necessary to disconnect the pump from the power supply by removing the pump systems plug from the electricity supply.

Problem – Constant pressure systems	Cause	Corrective Action
Pump doesn't stop when tap is closed	There is a leak in the pipe system. (>1.2 lpm)	Check all pipework for leaks on suction and discharge side of pump. Pressure test using a gauge if necessary. Any small leak from a connection, tap or leaking toilet will cause a problem.
Pump starts but goes to failure (Failure light on)	Pump does not prime or there is no water to pump	Re-prime pump. Make sure there is sufficient water to pump and no blockage in suction line. Press RESET button and try operations again.
Pump doesn't start (No Power light)	No power to unit	Check power outlet is turned on. Check electrical connection (as per connecting controller section) and ensure electrical power is working.
Pump starts and stops repeatedly	There is a small leak in the system	Check all pipework for leaks on suction and discharge side of pump. Pressure test using a gauge if necessary. Any small leak from a connection, tap or leaking toilet will cause a problem.