

# LEADER PUMPS



*EcoWater Instruction Manual*

## 1. SAFETY INSTRUCTIONS

Carefully read these instructions before starting the pump.

For safety reasons, persons who have not read the instructions shall not be authorized to use the pump. A pump is an electrical appliance and needs due care and responsibility when operating. The power cable should never be used to transport or shift the pump. It is essential that the pump and pressure tank is protected from the weather by a pump cover. Water entering the motor will cause failure and possible safety concern. Direct sunlight will produce accelerated fading of the paint work and reduce the life of the unit.

The pump cannot be used to pump salty water, sewage, inflammable, corrosive or explosive liquids (i.e. Petrol, fuel, diluents), greases, oils or food stuff.

In case power cable is damaged, to avoid any risk, replacement must be done by the manufacturer of the pump or by an authorized service centre.

The pump must never work dry or with the delivery tap completely closed.

The temperature or the liquid handled should not exceed 35 C.

Before starting the pump, verify that:

The electric system is equipped with a Residual Current Device (RCD) with a rated residual operating current of no greater than 30 mA and that the ground system is efficient.

The voltage and frequency shown (240 V/50Hz) on the technical nameplate of the pump correspond to the data of the electric supply system.

The power cable of the pump is not damaged.

The electric connection is done in a dry area at a safe distance from possible floods.

ATTENTION: The water height between the pump and the highest outlet point should not be more than 15m.

## 2. OPERATION

EcoWater pumps are pressure systems to enable supply of water at pressure to the garden. They are designed to start and stop as water is required upon demand. They are tested and ready to use.

Pressure System Checklist

1. Foot valve must be fitted on the end of the suction line when drawing from an underground tank or the pump is above the water level.
2. Check for leaks on both the suction and discharge side of the pump. Even a small leak will cause the pump to cycle (ie. turns on and off repeatedly)

## 3. STARTING THE PUMP

Before installing and operating the pump it is necessary to carry out the following:

- a) The diameter of the suction and delivery pipes should correspond to the diameter of the pumps inlet and outlet (25mm). Do not use any metal connections directly on the pump.
- b) Before operating for the first time the pump must be filled with water. Fill the pump body with water before you fit pressure controller.
- c) Using the union fitting fix controller to the discharge outlet on top of pump. Hydraulic controller should only be installed in a vertical position. Make sure there are no leaks

## 4. TECHNICAL DATA

Model	Power	Max Flow Rate	Max Head	Tap Performance	No of Impellers
EcoWater	600w	40 l/min	38 m	Up to 3	1

## 5. INSTALLATION

**A.** Verify that the pump you have purchased is suitable for the application intended. The EcoWater is designed to pump CLEAN WATER from a rainwater tank. The EcoWater has a device that controls the operation of the pump. Incorrect use will void warranty.

**B.** Locating the Pump – Locate the pump as close to the rainwater tank as possible, preferably at the base of the rainwater tank so that the water level is always above the pump. If the pump is located above the level of the water a footvalve must be installed on the end of the suction line. Ensure that the pump is covered and protected from the elements as this will ensure a long life. It is strongly advised to secure the pump by bolting it down to a concrete slab or similar.

**C. PIPE CONNECTION** - From the rainwater tank using a pipe 25 mm or larger in diameter connect to the inlet of the pump. A gate valve or stop cock must be installed between the pump and tank. This is to facilitate pump servicing and stopping of the water flow from the tank. A suction strainer or “Y” strainer should also be fitted on the suction side of the pump, these will stop any dirt or debris from entering and damaging pump. The pipe from the rainwater tank should be as straight and as short as possible it is also recommended that a flexible connector be used to allow for shocks or movement.

**D. DISCHARGE PIPE CONNECTION** - Using pipe size of 25mm or greater connect the discharge pipe to the outlet. The outlet is located on top of the pump. Do not use metal fittings directly on the pump.

**E. STARTING OPERATION** – After connecting all pipes, open the valve between tank and pump allowing water to flow to the pump. Remove the priming plug on the pump body and check that water is visible. If the pump is above the level of the water it is necessary to fill the pump body and suction line with water. In this instance a footvalve must be fitted to the end of the suction line. When the pump body and suction line are filled with water check for leaks. Rectify any leaks before proceeding. Plug the pump into the power supply and turn on. The LED light (POWER) will come on. The water should flow within a few seconds, the LED light (ON) will come on. Allow the water to run for one minute and ten turn of the tap. The pump should stop. The LED (POWER) light will be the only one to remain on.

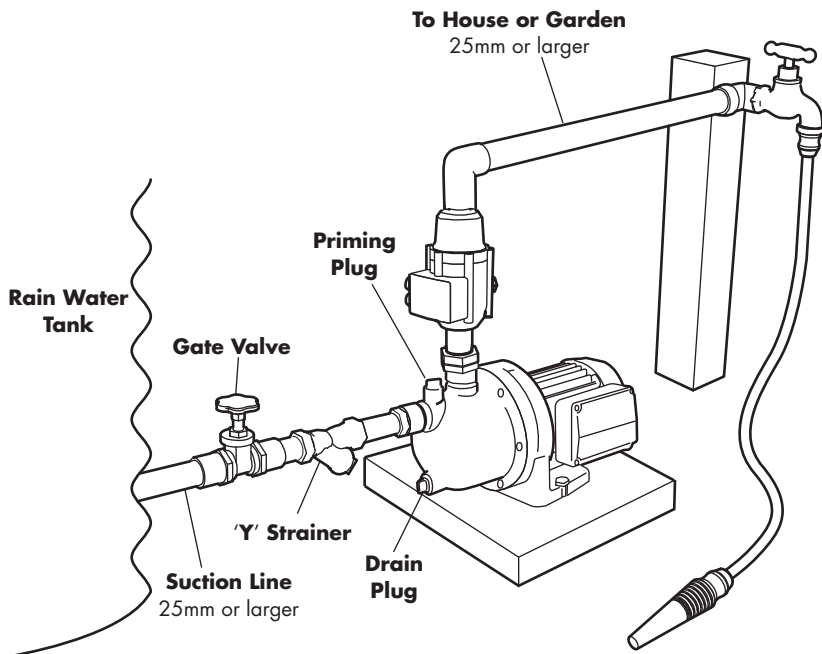
Check again for leaks and rectify as required.

#### Operating light indicators

“Power” light on indicates that unit is connected to the power supply

“Failure” light on indicates that failure has occurred

“On” light on indicates that the pump is currently operating



## 6. Troubleshooting

Before performing any trouble shooting, it is necessary to disconnect the pump from the power supply (by removing the plug from the socket).

Fault	Possible Causes	Solutions
Thermal overload protector switches off the pump	A) Voltage does not correspond to indications. B) A solid blocked impeller. C) Pump run with hot water. D) Pump ran dry or when discharge tap was closed.	A) Check voltages. B) Unplug the pump and remove the cause of overheating. C/D) Wait until thermal protector switches back on.
The pump starts and stops irregularly or continuously.	Leak on the discharge line or outlets.	Fix any leaks.
Not enough water being pumped.	A) Dirty suction filter. B) Air in pump housing. C) Water level low.	A) Clean filter. B) Release air via priming plug and fix any air leaks on suction line. C) Check that the suction line is completely under water level.
Pump does not run	A) No mains voltage. B) Shaft locked.	A) check power supply is on and connected. B) Disconnect pump from power supply and clear blockage.
The pump runs but does not deliver water	A) Air in pump housing. B) Air in suction pipe. C) Intake valve not in water. D) Intake valve closed or clogged. E) Max suction depth exceeded.	A) Prime the pump. B) Check that suction pipe and fittings are tight. C) Put intake valve in water. D) Open intake valve or remove blockage. E) Check suction depth.

## 7. WARRANTY

The pumps are covered by a 12 month warranty from the date of purchase covering a problem caused by a manufacturers defect. This may be a problem of material defect or incorrect assembly. The warranty does not cover normal operating wear or problems associated with incorrect installation.

The warranty is only valid under the following conditions;

- The pump has been used in the correct manner for the correct application.
- The operation instructions have been followed.
- Genuine spares have been used.

The warranty is void if:

- Attempts have been made to repair the pump without authority.
- The pump has been modified.
- The pump has been used for the wrong application.

The following items are excluded from the warranty:

- Paint damage due to normal wear.
- Wearing parts.
- Parts damaged due o incorrect installation.

Proof of purchase is required on all claims in the form of a copy invoice.

**LEADER PUMPS GROUP S.p.A.**

Via Bonanno Pisano, 1  
56031 - Bientina (PI) Italy