

# Aquavelo Aqv-1100

**Clean-Water Submersible House Pump. Supplied with Pressure Vessel and Snorkel.**

## Features

- 1PX8-Rated
- Automatic 'Protection Modes' to prevent damage from running-dry or pipeline leaks.
- *Two-year warranty*

<b>Power</b>	Single-phase
<b>Motor</b>	1.1kW, 230v.
<b>Maximum Head</b>	47m
<b>Maximum Submersion Depth</b>	7m
<b>Maximum Temperature</b>	35 Degrees Celsius
<b>Switch-on Pressure</b>	1.5 Bar
<b>Outlet Size</b>	25mm
<b>Maximum Particle Size</b>	1mm (NO sand, stones or gravel)
<b>Power Lead Length</b>	10m
<b>Dimensions</b>	580mm High 147mm Diameter
<b>Maximum Flow Rate</b>	100L/m



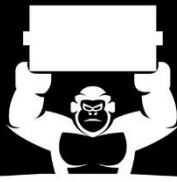
# Aquavelo Aqv-1100

## In-Tank House Pump Instructions



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## The Aquavelo Aqv-1100

Thank you for purchasing the Aquavelo Aqv-1100. This house pump is designed to be submerged in clean water, and comes complete with a snorkel and pressure vessel.

Two sets of this booklet have been prepared- one for the homeowner, and a second for the installing plumber. A copy must remain with the owner for warranty purposes. **Please read this booklet BEFORE installing the Aquavelo.**

If you have any questions, please contact Eco Water Solutions- we are happy to help. Our contact details are found at the end of this booklet.

### Side View



### Top View



# Installing the Aquavelo

## Pre-Installation Checks

Please ensure that the pump, pressure vessel and snorkel are present, and that nothing has been damaged in transit to you. Check the condition of the power lead for any cuts or other damage. Ensure there is no lubrication oil leaking from the unit.

## Safety Instructions

- All electrical sockets must be earthed
- Never pick up the pump by its power cord
- Don't pull the power cord across a sharp edge or place anything heavy on it.
- The power supply voltage must be the same as the unit's specifications (230V)
- The pump must be connected to a leakage current breaker with a rated leakage of no more than 30 MA.
- Any plugs and extension cables connected to the unit must be either waterproof or sited away from the water.
- All electrical fittings must meet New Zealand standards.
- It is recommended that the outlet is placed at least 60mm from the ground to protect against flooding and splashes from surface water.

*The Aquavelo must be installed by qualified tradespeople only. Children under the age of eight and those with sensory or physical conditions must be supervised near the unit. Stay out of the water when the pump is in use.*

**Important: Risks to life may result if these safety instructions are not followed.**

Please do not attempt to repair the Aquavelo yourself- contact your installing plumber or Eco Water Solutions.

**Important: Install Pressure Vessel Before Activating or Immersing Pump**

Pressure vessel must be set to 45psi. Vessel should be located before the first tap outlet.

## Connecting the Pressure Pipe

- Screw the pressure pipe into the pressure joint. All joint connections must be sealed with threaded sealant tape.
- The appropriate pressure pipe adaptor should be used with pressure pipe
- The pressure pipe should be screwed firmly into the adaptor and fixed with a pipe clip.
- Non-return valves should be used to prevent water back-flowing when the pump switches off.

## Placing the Aquavelo in the Tank

*We recommend testing the pump in a large bucket before installation. This way, any damage caused in transit is identified as soon as possible.*

- **Set the pressure vessel to 45psi before immersing the pump in water or activating it. See the notice at the end of this booklet for details.**
- Tie a strong rope to the handle of the pump and lower it gently into the tank. Once submerged in the water, the pump should be tipped on an angle so any air gaps are released.

## Before Using Your Pump....

1. **Set pressure vessel to 45psi before activating pump or immersing it in water. Please read the pressure vessel notice at the end of this booklet.**
2. Ensure that all fittings can withstand pressure
3. Check all joints are sealed or tightened
4. Make sure the pump is firmly fixed in place
5. Check the pump is less than 7m below the surface of the water
6. Open the outlet valve

# Using the Aquavelo

## Standard Operation

When the water pressure is at 1.3-1.6 bar (for example, when a tap is turned on), the pump motor automatically starts. When the outlet valve is closed, the pump holds pressure in 'standby mode'. No further attention from the operator is required.

## 'Safety Mode'

The Aquavelo is equipped with a 'safety mode' which protects it from damage if its water supply is cut off. *Please read the following carefully; if the pump appears to have stopped working it may have entered its 'safety mode' and can be easily restarted.*

If there is not enough water for the pump to operate, it will enter 'safety mode' and will stop working. To restart it, simply switch its power supply off and on again.

Small leakages in the pipelines cause pumps to rapidly switch on and off- this creates wear and quickly shortens their life. To prevent this, the Aquavelo enters its 'safety mode' after a few rapid 'on/off' cycles. Once the leak has been fixed, turn the pump's power supply off and on to return the pump to normal operation.

## Cleaning and storage

- Do not clean the Aquavelo internally
- Flush the outside of the pump with clean water using a gentle spray. Use a brush and detergent to remove stubborn marks.
- Immerse the pump in clean water and allow it to run for a while.
- Store the pump away from frost

## Troubleshooting

Problem	Cause	Solution
The pump does not start, or stops suddenly when running.	<ol style="list-style-type: none"> <li>1. Unconnected power supply</li> <li>2. Faulty power cord or plug</li> <li>3. Pump blocked or thermal overload activated (the pump is running too hot)</li> <li>4. Damage to the impeller or failure of the internal pressure switch.</li> </ol>	<ol style="list-style-type: none"> <li>1. Checking the power supply is switched on and the cable is undamaged will rule out Causes 1 and 2.</li> <li>2. Opening the outlet valve may remove a blockage, allowing the pump to work again once it has cooled.</li> <li>3. Check the water temperature. If it is above 35 degrees Celsius then it is too hot for the pump to work. Turn the power supply off and on again when it has cooled.</li> <li>4. Contact your installing plumber.</li> </ol>
The pump keeps on stopping and starting by itself.	<ol style="list-style-type: none"> <li>1. Leakage at the outlet pipe, or burst pipe</li> </ol>	<ol style="list-style-type: none"> <li>1. Check all pipes and seals for leaks and repair those found. If the pump rapidly cycles on and off for a while, it will enter 'safety mode' and will need its power switched off and on to restart.</li> <li>2. Contact your installing plumber.</li> </ol>
The pump is not supplying enough water (or none at all)	<ol style="list-style-type: none"> <li>1. There is not enough water in the tank</li> <li>2. The pressure tube is bent/damaged, meaning water</li> </ol>	<ol style="list-style-type: none"> <li>1. Check to see if the water level is above the pump's impellers. If not, increase the level.</li> </ol>

	cannot get to/from the pump 3. The water is dirty and is blocking the pump.	2. Adjust or replace damaged hoses and pipes 3. Clean the inlet of any obstruction and ensure water is free of any contaminants (see box below) 4. Contact your installing plumber.
The pump does not shut down.	1. The one-way valve in the pump has been damaged.	1. A registered plumber will need to inspect it.

**Important: The Aquavelo is a clean-water pump only. None of the below should be present in its water supply.**

1. Corrosive substances
2. Flammable or explosive substances (such as gasoline, petrol, nitro diluent)
3. Grease and oils
4. Brine or salt water
5. Sand, stones or gravel
6. Sewage or stormwater
7. Soft-solids greater than 1mm diameter

**The presence of the above will void the warranty**

### Technical Specifications

Nominal Voltage	230V/50HZ
Nominal Output	1100W
Outlet Size	25mm
Protection Type	IPX8
Maximum Head	47m
Maximum Flow Rate	6000L per hour
Maximum Submersion Depth	7m

Maximum Solid Size	1mm
Switch-on Pressure	1.5 Bar
Unit Dimensions	580mm high, 147mm diameter
Cable Length	10m
Warranty Period	Two Years

## Pressure Vessel Inspection

A pressure vessel is an important part of the Aquavelo pump. It holds a supply of water which is 'fed out' to the pump to avoid the need to stop and start the motor for short runs.

Without it, the life of the pump is greatly reduced.

The Aquavelo is supplied with a stainless-steel pressure vessel. Before installing the pump, this vessel needs to be filled to 45psi. After installation, it must be inspected every six months. The line should not be under pressure when the psi level is tested.

Initial check on \_\_\_\_\_ (date) by \_\_\_\_\_ (Installer's name)

### Six-monthly inspections



Date	Name (Plumber or Owner)

This vessel should be situated between the pump and the first tap outlet.

**Failure to inspect the pressure vessel will void the warranty**

## **End-of-Life Disposal**

- The Aquavelo cannot be disposed of as domestic rubbish. Please contact your Local Council for advice and rates on disposing of electrical equipment.
- The box the Aquavelo came in can be recycled.



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