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# Aquatime CDP

## Instruction Manual



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## DESCRIPTION

The AQUATIME CDP provides protection for any pump by detecting the current flow (power into the pump). On power-up the pump is allowed to operate uninterrupted for 5 minutes, if after 5 minutes the current draw of the pump exceeds the window of operation then the pump is shut down until the next power on cycle. The pump can be set to continue operating if the current draw is above the minimum level (load) and can be forced to shut down if the current draw exceeds the maximum level (overload). The window for operation can be automatically or manually adjusted.

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## INSTALLATION INSTRUCTIONS

### CONTROLLER INSTALLATION

Find a suitable location to mount the control box. The controller should be installed out of direct weather and no closer than 3 meters from the water's edge, more than 1.2 meters from the ground and more than 30cms away from other equipment. Lift up the two mounting tabs and use two appropriate screws to mount the control box to the wall. Do not drill through any part of the box.

### CONTROLLER POWER

Plug the 1.8m power cable from the AQUATIME CDP directly into the timer device (sanitiser/solar controller), do not use extension leads.

### PUMP

The pump plugs into the left side 240Vac socket marked as OUTPUT, the socket is underneath the unit. Ensure the plug is fully inserted.

### OPERATION

When powered up for the first time the controller will show an 'Installer must set pump load' message.

The message will be removed once the window for operating currents has been set.

[See INSTALLER SETTINGS]

In the first 5 minutes of operation the controller ignores the current draw of the pump to ensure the pump has enough time to prime. Once this period has expired the pump may be stopped for not meeting or exceeding the requirements. [See INSTALLER SETTINGS].

### LCD SCREEN

During operation the LCD screen will display the status of the pump, and flow errors should they occur due to the pump failing to prime or due to an overload condition. The LCD screen is also used to adjust operating parameters.

### BUTTONS

Pressing the UP button will display the 'Up & SELECT1 for automatic setting' message. [Press both the UP and SELECT1 buttons at the same time, see installer settings.].

Pressing the DOWN button will display the 'Down & SELECT1 for manual setting' message. [Press both the DOWN and SELECT1 buttons at the same time, see installer settings.].

Pressing the SELECT1 button will display the 'Hold to restart' message, it also cancels the 5 minute wait for priming. If a pump has stopped due to a detected flow error then pushing and holding down the SELECT1 button will restart the unit.

### PUMP LOAD SETTING **\*\*IMPORTANT\*\***

The controller will not operate as intended and will display an 'INSTALLER MUST SET PUMP LOAD' message. The correct Load setting is required for this controller to pick up a pump which is failing to prime or a pump that is overloading. There are 2 methods for setting the load detection of the pump.

Prior to setting the controller values please ensure your pump is connected to the controller's power socket and that the pump is primed also if it's a variable speed pump ensure the pump is operating at the required speed.

#### **AUTOMATIC SETTING:**

*For automatic setting ensure the pump is operating and primed. Then simply hold the UP button then press SELECT<sup>1</sup>, the unit will then display the pump's load value and automatically sets the threshold levels and returns to automatic operation, if the current draw of the pump drops below or exceeds the automatic set levels then the pump is forced to switch off.*

#### **MANUAL SETTING:**

*For manual setting ensure the pump is operating and primed. Then simply hold the DOWN button then press SELECT<sup>1</sup>, the unit will then display the pump's LOAD=xxx value, take note of the LOAD=xxx reading as you will need to make adjustments from it.*

When the LCD screen displays RUN=>xxx it indicates the minimum load required to allow the pump to run, set this value 10% lower than the displayed LOAD=xxx value and press SELECT<sup>1</sup>. The next value to adjust is TRIP> this is the overload

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value, when the pump draws too much power (e.g. a variable speed pump operating too fast or a locked rotor) then the pump is stopped, set this 10% higher than the displayed LOAD=xxx value and press SELECT<sup>1</sup>. \*Default values are RUN=>20 and trip >99.

Once the manual settings have been adjusted all the above settings will be saved and the unit will restart.

## NOTES

1. Some labels have the SELECT button named as ENTER.
2. After a power outage all configurable items are retained.
3. Pump load values displayed is relative to how much power is consumed by the pump, note that variable speed pumps tend to display higher than expected values.
4. Maximum rated output load for the 240V socket is 10 Amps / 2400 Watts.

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## WARRANTY – AQUATIME CDP

This range of product is covered by a limited 3 year warranty against component failure or faulty workmanship from the date of installation.

A faulty unit should be returned in the first instance to the dealer from which the unit was purchased.

Damage to the unit due to misuse, power surges, lightning strikes or installation that is not in accordance with the manufacturer’s instruction may void the warranty.

Warranty does not cover travel costs to or from installation site.

If the power cord is damaged, do not use the controller; return the unit to the supplier for repair.

## CUSTOMER RECORD [To be retained by the customer]

DEALER/INSTALLER NAME

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SERIAL NUMBER

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DATE INSTALLED

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