

AQUATIME CDP

PUMP PROTECTION CONTROLLER Instruction Manual



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, 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.

See Operating Instruction to set the Pump load settings.

INSTALLATION INSTRUCTIONS

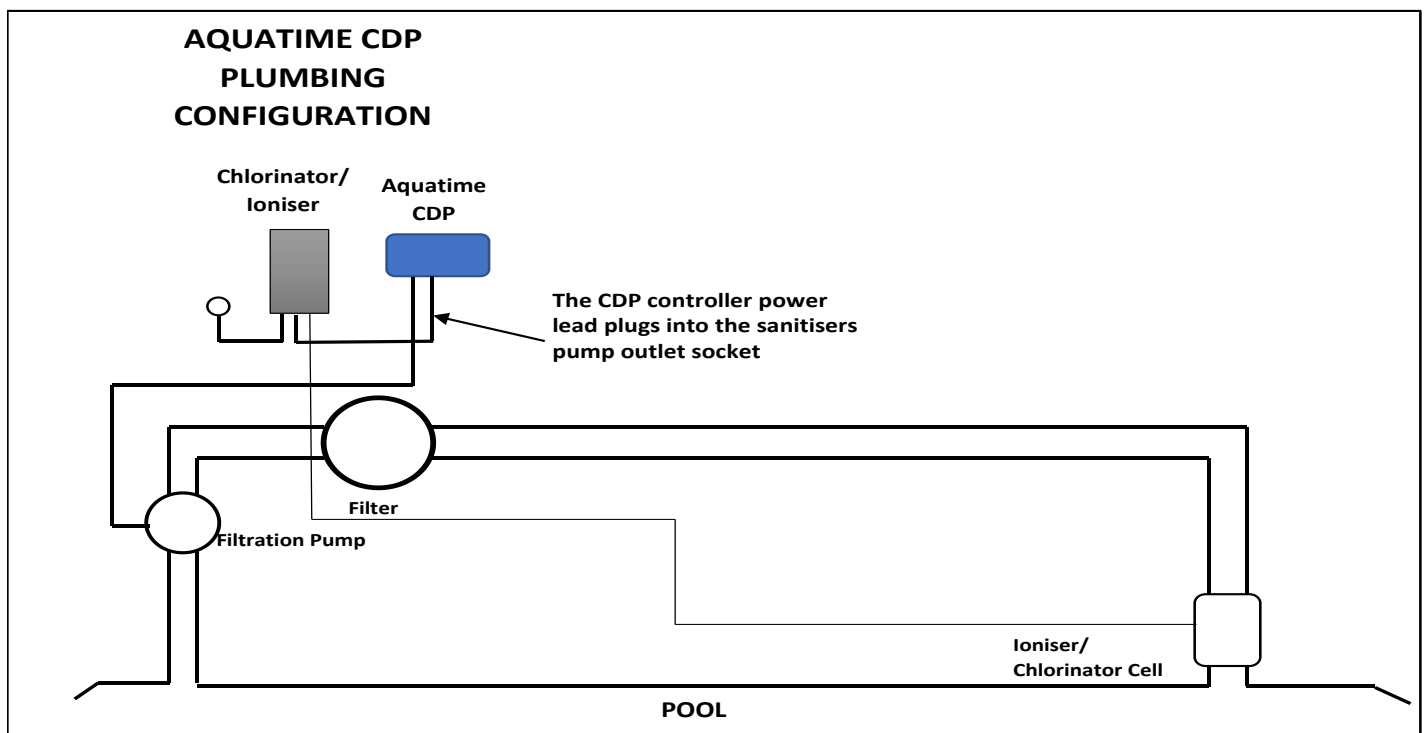
THIS APPLIANCE ISN'T INTENDED FOR USE BY YOUNG CHILDREN OR INFIRM PERSONS WITHOUT SUPERVISION. PLEASE ENSURE YOUNG CHILDREN ARE SUPERVISED TO ENSURE THEY DO NOT PLAY WITH THE APPLIANCE.



Ideally, as with all pool equipment, the controller should be installed out of direct weather.

<p>CONTROLLER MOUNTING</p>	<p>Find a suitable location to mount the control box.</p> <p>The controller should be no closer than 3 metres from the water's edge and a minimum 600mm above ground. The power cable is 1.8m long and should be plugged directly into a general power outlet, not into an extension lead.</p> <p>Lift up the two mounting tabs and use two appropriate screws to mount the control box to the wall</p> <p>To remove unit, undo the screws slightly, push the controller upwards and gently pull away from structure.</p>
<p>PUMP CONNECTION</p>	<p>The Circulation pump plugs into the 240V socket labelled AUXILLARY.</p> <p>The maximum load is 9.98 AMPS at 2395W.</p>
<p>CONTROLLER CONNECTION</p>	<p>The Aquatime CDP controller plugs into the power outlet of the timer device, usually the filter pump outlet of the sanitiser.</p>
<p>NOTES:</p>	<ol style="list-style-type: none"> 1. If any of the menu items are left unattended for 3 minutes the menu will time out and automatically save all settings and return to automatic operation. 2. Should power be interrupted for any reason, the controller will resume normal operation when power is restored. All information will be kept for up to 10 days. 3. Degree of protection against moisture: IP23. 4. Store pool chemicals safely, at least 3 metres away from all pool equipment. 5. The <i>Pump Load</i> values displayed is relative to how much power is consumed by the pump. <i>Note</i> - Variable speed pumps tend to display higher than expected values and the Pump Load Setting may need to be set using the Manual Setting. With a Variable speed pump, you will need to set the 'Trip' value higher to take into account the higher run speed on initial start-up.

PLUMBING CONFIGURATIONS



OPERATING INSTRUCTIONS

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 PUMP LOAD 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	<p>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 Automatic Settings.].</p> <p>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 Manual Settings.].</p> <p>Pressing the SELECT¹ button will display the 'Hold to restart' message, it also cancels the 5 minute wait for priming.</p> <p><i>If a pump has stopped due to a detected flow error then pushing and holding down the SELECT¹ button will restart the unit.</i></p>
PUMP LOAD SETTING	<p>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.</p> <p>Prior to setting the controller values, please ensure your pump is connected to the controller's power socket and that the pump is primed and if it's a variable speed pump, ensure the pump is operating at the required speed.</p> <p><i>NOTE - Using the Manual Setting is the better option for a Variable Speed Pump.</i></p>
1. AUTOMATIC SETTING	<p><u><i>For automatic setting ensure the pump is operating and primed. Then simply hold the UP button then press SELECT¹.</i></u></p> <p>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.</p>
2. MANUAL SETTING	<p><u><i>For manual setting ensure the pump is operating and primed. Then simply hold the DOWN button then press SELECT¹.</i></u></p> <p>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.</p> <p>When the LCD screen displays RUN=>xxx, it indicates the minimum load required to allow the pump to run. Set this value 15% lower than the displayed LOAD=xxx value and press SELECT¹.</p> <p>The next value to adjust is TRIP> this is the overload 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 SELECT¹.</p> <p>*Default values are RUN=>20 and trip >99.</p> <p>Once the manual settings have been adjusted all the above settings will be saved and the unit will restart.</p>

WARRANTY

- This range of product is covered by a limited 3 year warranty against component failure or faulty workmanship from the date of installation.
- Faulty units should be returned in the first instance to the dealer from which the unit was purchased. [Return to Base]
- Damage to the unit due to misuse, power surges, corrosion from pool chemical fumes, lightning strikes and or installation that is not in accordance with the manufacturer's instruction may void the warranty.
- Warranty does not include on-site labour or 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

SERIAL NUMBER

DATE INSTALLED

For service assistance visit www.dontek.com.au

TROUBLE SHOOTING

NO POWER TO THE DISPLAY:

Timer device power outlet is faulty. Since the controller will be getting its power from the timer (sanitiser), make sure that the timer is within its set operating times. Test pump outlet with a known working appliance. If the pump outlet is operational, check the controller in another power point and if there is still no display then send the controller for repair.

RTC-FAIL – This can occur if the unit has been turned off for a prolonged period of time, leave the unit on for ~30 seconds, then turn it off for ~30 seconds before turning it back on.

PUMP FAULTS:

Ensure the controller has working sensors; otherwise the pump will not operate.

FILTRATION PUMP WILL NOT START:

The pump will only ever run for the purpose of automatic circulation as dictated by the times set in the Timer.

Check the clock time and the circulation times set in the Timer [Chlorinator].

If the pump does not operate, plug the pump into a power point and test operation. If the pump is OK, reset the pump load settings in the Aquatime CDP. If the pump still doesn't start, the controller may need to be repaired.

If the controller is showing a "No Flow" error message, check to ensure the circulation pump is primed. Hold down the Select button to restart the controller. After 5 minutes ensure that the pump is still running. If the pump isn't running then the pump isn't priming and the plumbing issue will need to be rectified.

If the controller is showing a "No Flow" error message, check to ensure the circulation pump is plugged into the AUX socket and that the circulation pump is running. If a "No flow" error message is displayed and the circulation pump is running, reset the Pump Load Settings as described in INSTALLER SETUP. *Maybe use the Manual Setting and widen the operating range if using a Variable speed pump for circulation.*

PUMP WILL NOT STOP:

Disconnect the controller from the timer and ensure the pump stops. If the pump continues to operate then unplug it from the power point and connect it to the 240Vac socket marked Auxiliary at the bottom of the controller.

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[AQUATIME CDP rA.3](#)

