

FLOW CONTROL PRO PLUS

Instruction Manual



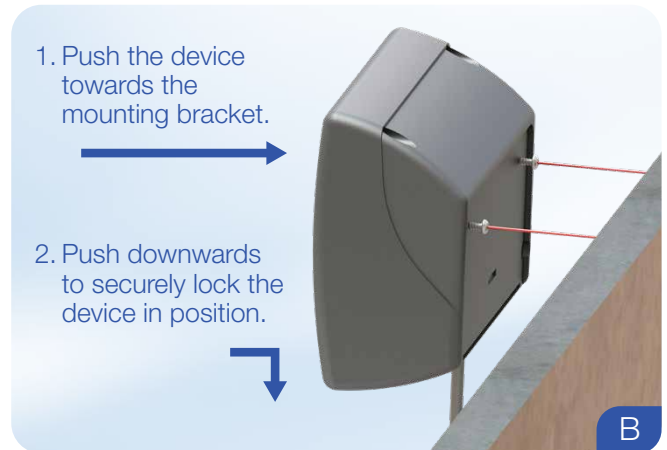
Description

This controller will operate a pool cleaner booster pump for a set period of time whenever constant water flow is detected for more than 10 seconds. This prevents the booster pump from running dry as a result of inadequate water flow.

Installation Instructions

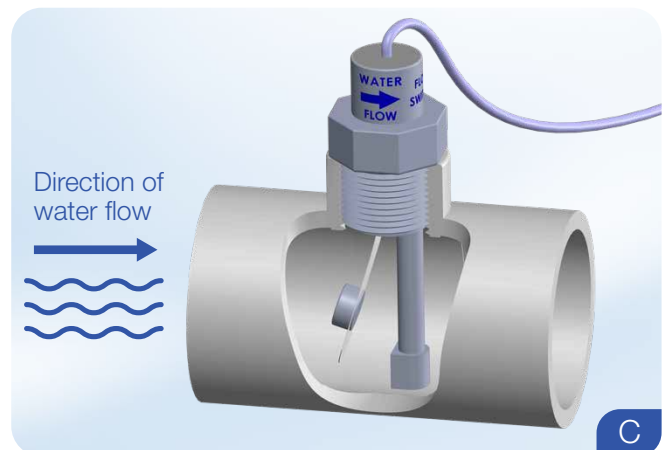
Controller Mounting

Find a suitable location to mount the Controller. Ideally as with all pool equipment it should be installed out of direct weather and no closer than 3 metres from the water's edge and a minimum 600mm above ground. Fix the mounting bracket to a solid structure and slide the controller on, keeping in mind that the power cable is 1.8m long and should be plugged directly into a general power outlet. Do not plug the controller into an extension lead, a chlorinator or a time clock. See diagrams A and B.



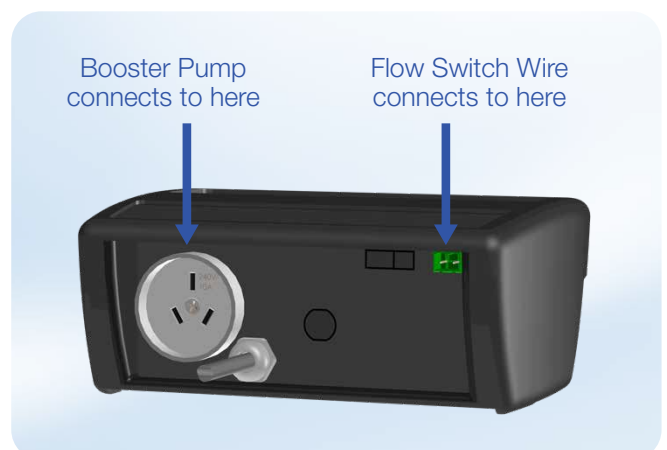
Flow Switch

The Flow Switch has a $\frac{3}{4}$ " BSP thread, and screws into a CAT 21 Faucet Tee. The included Faucet Tee will be either 40mm or 50mm (depending on order code). The Flow Switch should be fitted after the filter and before the booster pump take off Tee. It must be installed with the flow arrow on the side of the switch facing the correct water flow direction (see diagram C). The Faucet Tee can be installed in either horizontal or vertical pipework. The best position for the Faucet Tee is in a straight length of pipe, with a minimum of 150mm before or after any 90 degree elbows. Do not use reducing bushes in the Faucet Tee. The Flow Switch is plugged into the green plug socket beneath the Controller. This will ensure that the pump only activates when the main pool pump is operating.



Booster Pump

The booster pump plugs into the 240V outlet on the underside of the controller. Maximum rated output load for the 240V socket is 10 Amps (2400w).



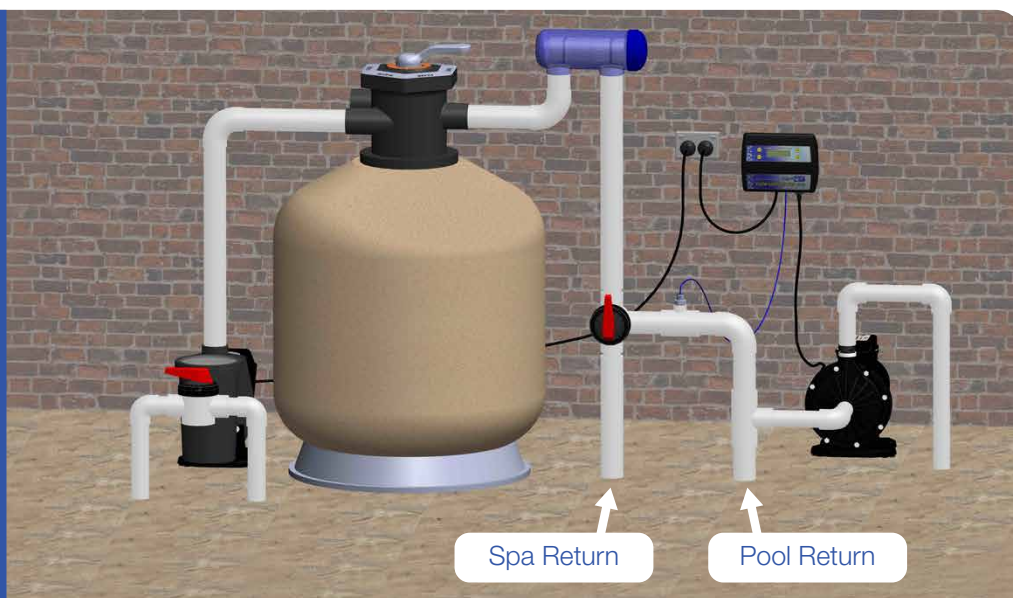
Typical Installation for Pool

Faucet Tee is located before the Booster Pump Take Off Tee. If space allows, it is also acceptable to locate the Faucet Tee between the filter and the chlorinator cell. Never install the Faucet Tee between the Take Off Tee and Booster Pump.



Typical Installation for Pool & Spa

Faucet Tee must be located on the pool return line, after any valves. Never install the Faucet Tee between the Take Off Tee and Booster Pump.



Operating Instructions

The **MANUAL** button allows you to scroll from **AUTO RUN, MAN. OFF, MAN. ON**.

AUTO RUN – Automatic mode: In this mode, the unit waits for water flow from the filtration pump to start. Once flow is detected, the LCD screen will display 'FLOW TEST IN PROGRESS'. If constant flow is detected for 10 seconds it will switch on the booster pump for the time set using the SET RUN option. If a different once only run time is required, press the UP or DOWN buttons while in AUTO RUN to adjust the run time in half hour (30 minute) intervals. This will alter the current time (if running) or the next run time of the booster pump and will then revert to the previously stored run time once the filtration pump (flow) stops. If the run time has expired, the LCD screen will display 'FINISHED' until the flow stops or until the clock is outside of the run time(s).

MAN. OFF – Manual OFF turns the booster pump OFF and prevents it from starting. Note that the controller defaults to AUTO RUN when first powered on.

MAN. ON – Manual ON turns the booster pump ON, but only if flow is present. If there is no flow or if flow stops, the controller returns to AUTO RUN (automatic mode).

Pressing the ENTER button will turn on the LCD backlight, pressing the ENTER button while the backlight is lit will enter the SETTINGS MENU; The following will be displayed; 1) EXIT The menu system can be navigated using the ↑ or ↓ buttons, all selectable and changeable values will flash on the LCD screen. Press the ENTER button to accept the currently displayed (flashing) item.

Operating Instructions (continued)

All menu items are shown below;

1) EXIT 2) CLOCK 3) PERIOD 4) SYSTEM

1) EXIT – Press ENTER on this menu to return to automatic operation.

2) CLOCK – Set Clock: This allows you to operate the booster pump based on the time of day. When set to OFF (default), the boost pump will operate whenever flow is detected. When set to ON, you will be prompted to set the current time of day followed by the number of times per day the unit is allowed to run the boost pump (CYCLES). You will then be prompted to set the allowable run times(s). When the main pool pump is a variable speed pump, set the allowable run times of the booster pump to synchronise with the pool pump's medium or high-speed settings.

Note: 'Set Run Time' applies to each cycle and if the 'Set Run Time' is greater than the cycle time then the cycle time will stop the booster pump prematurely.

3) PERIOD – Set Run Time: To set the default run time, press the ENTER button when PERIOD is displayed. You can then use the UP and DOWN buttons to adjust the run time in half hour (30 minute) intervals. The range is from 0.00 hours (disabled) to 5.00 hours. Once you have selected the required run time, press ENTER to save & start AUTO RUN operation. (*Default = 2 hours).

4) SYSTEM – System sub-menu;

• EXIT • LCD TIME • DEFAULTS

- **EXIT** – Press ENTER on this menu to return to automatic operation.
- **LCD TIME** – Adjust the number of seconds the backlight remains on after the time a button was pressed. (Select NONE for always on.)
- **DEFAULTS** – Restore back to factory defaults.



Small arrows on the LCD screen indicates which function(s) are currently in operation.

Notes

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 have been kept.
3. Maximum rated output load for the 240V socket is 10amps (2400W).
4. Degree of protection against moisture: IP33.

Warranty

- This range of product is covered by a limited 2 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.
- 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 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 please call 02 9643 8338

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Automatic Pool Cleaners (Australia) Pty Ltd.
40 Percy Street, Auburn, NSW 2144 Australia.

Phone: +61 2 9643 8338

Fax: +61 2 9643 8448

Email: aqua@aquaquip.com.au

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