

# E-Control Electronic Pump Pressure Controller

Pump control for pressure boosting by pressure and flow detection

- 1" (25mm) BSP In-Line Fitting
- Any Orientation Installation
- Single Phase
- Clean Water Only
- Dry Run Protection
- Monitors Flow and Pressure
- Pump Anti-Lock/Anti-Blocking Cycle
- IP65



## How Does It Work?

*Mac3 E-Control* is an electronic pressure and flow monitoring pump controller. Pump starting is by pressure/flow sensing and the pump is stopped by flow sensing. When either water flow or a pressure drop is detected, the **E-Control** activate the pump to maintain pressure in the system until it detects that the flow has stopped then it deactivate the pump.

The restart pressure can be adjusted from the factory default of 1.5 bar by using a dial on the back of the device. This allows the installer to set the restart pressure to anywhere within the range of 0.8 - 2.2 bar.

**E-Control** can control a single phase pump of up to 2 Hp (1.5kW).

**E-Control** is mounted on-pipe with a 1" (25mm) threaded male connector, and can be mounted in any orientation as the installation or surroundings

require. A pressure vessel is recommended and this should be installed in the discharge pipe after the controller.

**E-Control** also features dry run protection with a warning light on the control panel to show if there is a system error. Also featured is a 'Anti-lock' feature. This anti-lock feature prevents a pump from pump from becoming blocked by starting the pump once every 24 hours, preventing small amounts of sediment from settling inside the pump and causing it to fail, and rotating the shaft ensuring adequate lubrication of the seals.

Dry-run protection is achieved by flow sensing. This will protect the pump from running continuously in the event that there is no water present, the pump becomes blocked, or the discharge pipework becomes disconnected from the outlet of the pump. In the event of a dry-run **E-Control** will shut down the pump and illuminate a warning light until the user intervenes and resets the system.

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## Technical Specifications

Physical	
Material	PA6 FV
Weight	950g
Dimensions	220x200x120mm
Mounting	In-Line, 1" (25mm) Male BSP
Working Pressure	1.5 - 8 bar
Restart Pressure	0.8 - 2 bar
Min. Differential Pressure	1.5 bar
Minimum Flow	0.5 l/min
Maximum Flow	120 l/min
Maximum Overpressure	12 bar
Operating Temperature	0°C – 50°C
Liquid Temperature	1°C – 40°C
Liquid Type	Clean Water - No Solids - pH 5 - 9
Ingress Protection	IP65
Electrical	
Supply Voltage	220-240Vac 50-60Hz Single Phase
Pump Power	1.5kW (2 Hp)
Pump Current	25(8)A
Dry Run Protection	Yes

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