

# MILK PUMP CONTROL

## PLATE COOLER DELAY CONTROL



## Installation & Operation Manual<sub>iss1</sub>



## OPERATING & MAINTENANCE

The Davlec plate cooler delay control is fully automatic and requires no action by the operator during normal operation. Prior to milking, the operator must ensure that the function toggle switch is set to 'Auto'.

During washing of the parlour set the function switch to the 'Off' position to disable the plate cooler solenoid.

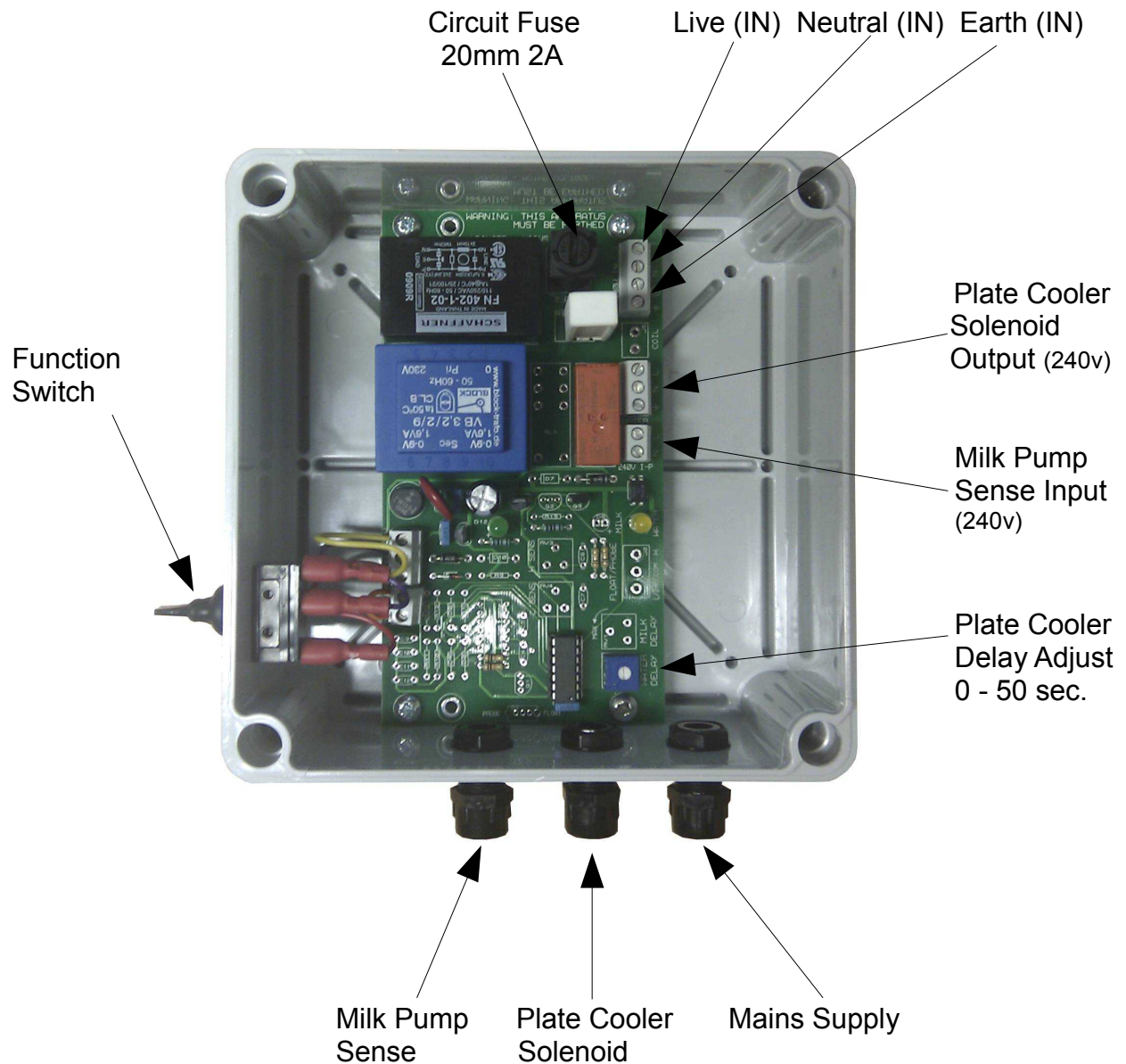
A manual override function switches the plate cooler solenoid on continuously.

The mains supply to the unit should be isolated when not in use, or before the unit is cleaned. Please note that a high pressure hose **MUST NOT** be used for the purpose of cleaning the enclosure. If the unit requires cleaning, then a damp cloth should be used.

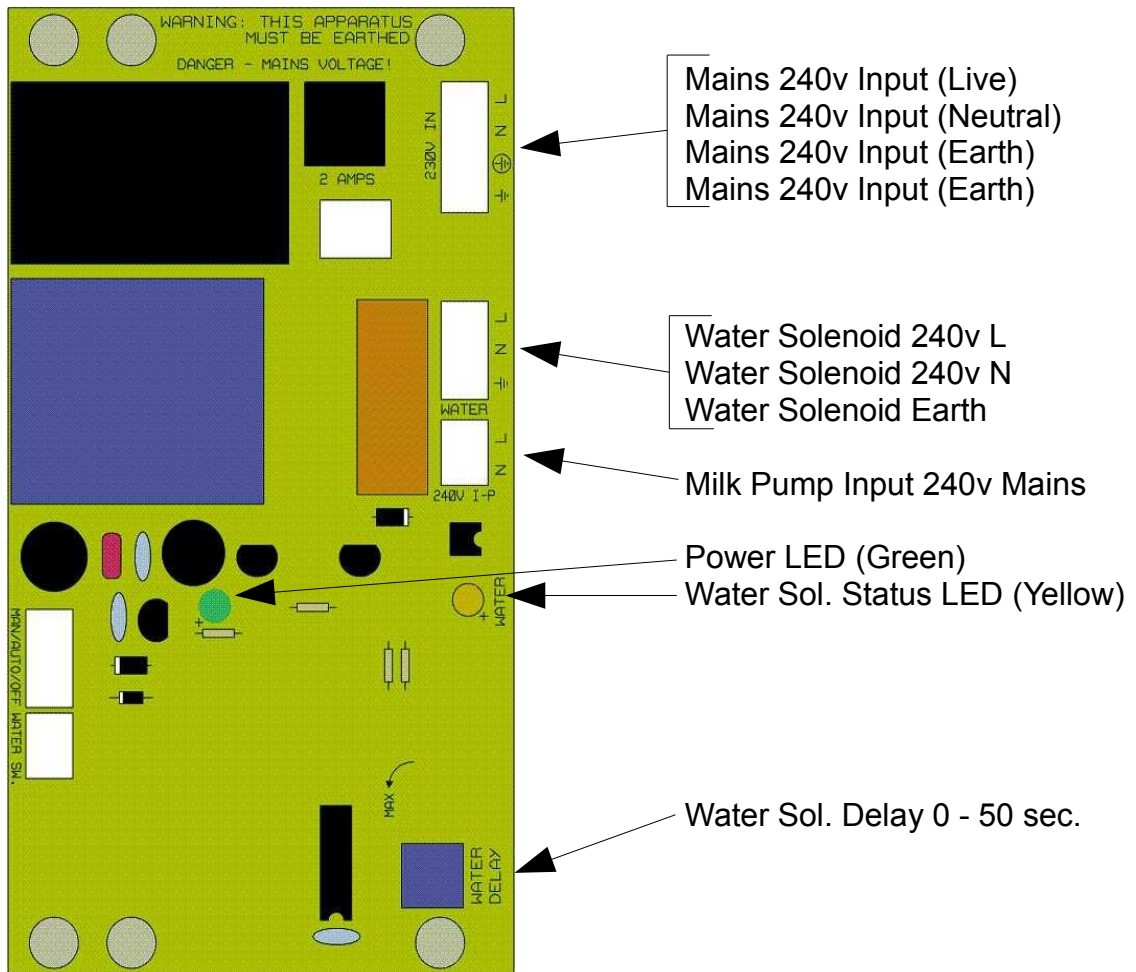
The unit contains no user serviceable parts with the exception of an internal fuse. This fuse is a 20mm 2 Amp quick blow, and protects the internal control circuitry. Do not replace with any other value.

The cover of the unit carries a "danger" warning message instructing the operator to isolate the mains supply before attempting to remove the cover.

# INSTALLATION & SETUP



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**Warning - Mains Voltage Wiring Involved ! All wiring should be carried out by a qualified electrician. Davlec Ltd. cannot be held responsible for any injuries caused by incorrect installation.**

The plate cooler delay control requires a 240 volt A.C. mains supply with fuse protection rated at 3 Amps.

The milk pump input terminals require a 240 volt A.C. (single phase) connection from the switching contactor that controls the milk pump. This connection provides the circuit with a trigger signal to operate the plate cooler (Water) solenoid output.

The plate cooler (Water) solenoid output terminals are mains 240v A.C. with the live phase being switched by the circuit. This output is protected by the 2 Amp board mounted fuse.

The 'Water Delay' potentiometer provides adjustment for the amount of time the 'Water' solenoid output remains on for after the milk pump has switched off. The adjustment range is 0 seconds to 50 seconds. If the water solenoid (Plate Cooler) is not on long enough then milk remaining in the lines will not be cooled sufficiently.

Mount the plate cooler delay control enclosure on a flat vertical wall near to a switched 240 volt AC 13 Amp mains supply outlet. The location of the enclosure should also be in close proximity to the plate cooler and milk pump. The enclosure has wall fixing holes directly under the enclosure lid fixings.

## SPECIFICATION

<b>Product Name</b>	Plate Cooler Delay Control					
<b>Product Family</b>	Milk Pump Controllers					
<b>Enclosure</b>						
<b>IP Rating</b>	66					
<b>Material</b>	ABS					
<b>Dimensions</b>	W	160mm	L	160mm	D	95mm
<b>Electrical</b>						
<b>Supply Voltage</b>	240 volt A.C.					
<b>Maximum Peak Voltage</b>	N/A					
<b>Frequency</b>	50 Hz					
<b>Maximum Current Load</b>	1.5 Amps (Solenoid Output)					
<b>Protection</b>	2 Amp 20mm Fuse (PCB Mounted)					
<b>Environmental Conditions</b>						
<b>Temperature</b>	0 to 45°C					
<b>Humidity</b>	5 to 95%					
<b>Location</b>	Indoor use only					
<b>Approvals</b>						
EMC Conformity to: EN 61000-6-1:2007, EN 61000-6-3:2007, EN 55022:2006						