



PLATE COOLER DELAY INSTALLATION

Version - March 2010



Part Number - 39-0190



PLATE COOLER DELAY UNIT INSTALLATION: 1

About the Delay Timer Unit:

The ATL Delay Timer has been designed for use with Solenoid Valves controlling the water supply to plate coolers. It allows the water flow to continue for a predetermined period after the milk pump has been turned off and milk flow has ceased, ensuring that the residual milk in the delivery pipes is also cooled.

A switch on the side of the unit allows for a manual override, switching the solenoid valve on and off. The unit can switch inductive loads up to 500mA at 230vAC; most solenoid valves used with plate cooling equipment operate in the range 50mA to 80mA.

The Delay Timer electronics and the output to the water control solenoid are protected with a 1A 20mm anti-surge fuse located in the centre of the printed circuit board.

Fitting the Control:

The unit must be securely fixed to a vertical wall, with the cable glands at the bottom, close to a 230vAC switched and fused (10Amp) mains outlet (a 13A socket is not suitable). Do not drill holes in the side or top of the casing because not only will this allow water ingress, *but will also void the warranty!*

Warning:

The electronic circuit is at mains 230volt potential. Disconnect the supply before removing the cover.

Electrical Connections:

Connect the unit to the mains supply as shown in the diagram. The black control wire must be connected to a live supply on the milk pump motor- at the output of the motor control relay, the contactor or live side of the contactor relay coil- providing it is to the same 230volt circuit (same phase) as the Delay Timer supply.

The solenoid valve must be connected to the L(live), N(neutral) and E(earth) terminals on the circuit board using 3 core 0.5mm csa wire with an outer diameter of 6mm to ensure a snug fit in the cable gland.

Setting the Delay Time:

Turn off the mains supply, remove the cover and increase the delay by turning the Plate Cooler Delay SET control clockwise.

If the cooler runs too long and wastes water, decrease the time by turning the control anti-clockwise.

Avoid using excessive force when turning the control.

Specifications:

Supply:	230vAC 50Hz fused 10Amps
Water Valve:	Plate cooler solenoid 230v AC: 500mA max. (100watts max.)



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Plate Cooler Delay Unit: *Wiring Connections*



**WARNING: DISCONNECT
THE MAINS SUPPLY BEFORE
REMOVING THE POWER
SUPPLY COVER**

