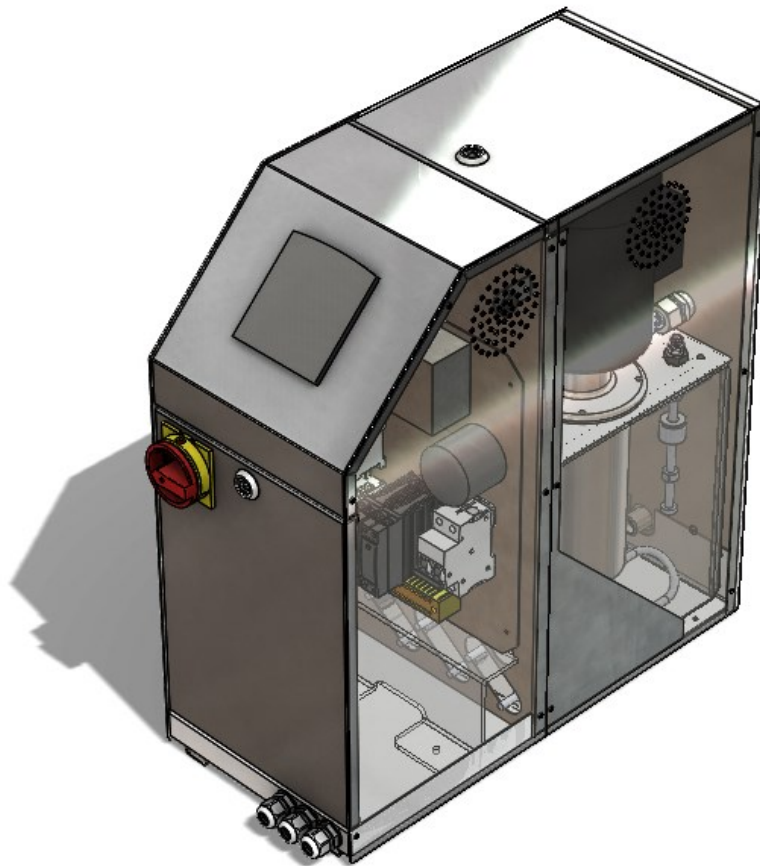


# Temperature Regulator Unit

Specifically Designed for paints, sealers and mastics



The temperature regulator unit has been specifically designed for use with paints and sealers by accurately controlling process water to a secondary heat exchanger. By using an onboard water tank with independent control, the paint or mastic temperature threshold limits can be set providing a failsafe device were the product is protected from temperature damage. This unit can be used with open loop control maintaining a constant water temperature to a secondary device or alternatively with the use of a Pt100 probe the unit can operate in closed loop control maintaining product temperature.

The unit can be used in conjunction with heat exchangers, jacketed tanks of heated take-off hoses.

## Key Features:

Controller	-	90mm Colour touch screen HMI with integrated PLC
Temperature Control	-	Built in PID with Autotune function
Water Circuit Monitoring	-	Flow and temperature monitoring for process and chilled water
Level Control	-	Automatic level top up with float valve and level switch protection
Plate Heat Exchanger	-	For connection to chilled water supply c/w solenoid valve
Heater Control	-	Fully modulating heater control from 0 up to 9.0kW (model dependent)
Fail Safe Temperature Protection	-	Mechanical Capillary cut off
Alarms	-	Audible alarm and visual built in alarm screens



## Key Data

### Heat Transfer Fluid – Water

The units are supplied as standard set up for use with water as the thermal transfer fluid for operating temperatures from 6°C up to 90°C. The heater can be supplied in 3 options 3KW, 4.5KW & 9KW. The cooling circuit can be supplied with either a cooling coil for chilled water below 0°C or a plate heat exchanger for cooling above 0°C.

### Technical Data

The dimensions of the unit are as below:

Width:	260mm
Height:	615mm
Depth:	560mm
Weight:	45kg
Colour:	Stainless Steel Dull Polish

### Connections

Process Circuit connections:	3/4" BSP Female Cooling/process water connections
Mains water supply:	3/8" BSP Female

### Electrical

Power supply:	380 to 415v 50Hz 3-phase + earth
Power consumption:	Varies according to the heater rating
Recommended Customer protection:	16A HRC fuses
Control circuit:	24vdc

The unit is fitted with a BS 4343 / IEC EN 60309-2 industrial plug on a 2 meter power flex for easy connection / disconnection rated at 16A.

### Process Circuit

Standard Pump Capacity:	45 l/m max. Flow 2.5 Bar max. Pressure
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### Communication

As standard, additional communication port for receiving and sending information or remote control functions.

- Serial/Ethernet/Profibus