

## Water Circulating Temperature Control Units

Technologically advanced, **unrivalled** excellence



The unique on board microprocessor control provides access to temperature setting and full machine operation via a user friendly multi-page menu screen.

Units with maximum temperature 95°C include fill and vent tank for low pressure use whilst pressurized units provide for operation to 140°C.

Coupled with heating capacities from 3 to 96 kW and a range of pump options, this versatile range of machines can be applied to a wide variety of uses!

Indirect cooling heat exchangers eliminate lime deposits and contamination of the process side of the circuit, whereas high capacity direct injection cooling can be utilized with chilled or properly treated cooling water supplies.

Manufactured from the highest quality materials the units are designed to withstand the most arduous production environments providing real value for money.

## Features

- Heating capacities up to 96 kW
- Direct or indirect cooling
- Non-pressurized units to 95°C
- Pressurized units to 140°C
- Corrosion resistant materials
- Long life stainless steel heating elements with solid state control
- Automatic water filling
- Full microprocessor with dual temperature display, alarms and diagnostics
- Castor mounted for ease of mobility

## **Model F3 TC90 Water Circulating Temperature Control Unit**

### **Features:**

PID temperature control in cooling and heating process  
Submersible pump which eliminates internal seal leakage  
Non-ferrous internal parts  
Low watts density long life incoloy heating elements  
Plate type heat exchanger for maximum heat dispersion  
Motor protection device  
Magnetic water level sensor  
Castors mounted for ease of transport  
Security thermostat  
Solid State Relay  
Automatic filling

### **Optional Extras:**

Double water outlet kit  
Flow rate control  
External sensor  
PT100 process sensor  
Return of process temperature indication  
Manual filling  
Leak stopper facility permits moulding to continue in the event of a tool leak  
Serial interface 4-20mA, RS 485, 0-10 volt

### **Technical Specifications:**

|                               |                        |
|-------------------------------|------------------------|
| Maximum temperature           | 90°C water             |
| Heating capacity              | 18 / 24 / 30 kw        |
| Cooling power                 | 18,000 kcal/hr @ 90°C  |
| Tank capacity                 | 35 ltr                 |
| Pump capacity                 | 60 ltr/min             |
| Pump pressure                 | 3.5 bar                |
| Pump power                    | 0.9 kw                 |
| Hydraulic process connections | 3/4"                   |
| Hydraulic cooling connections | 1/2"                   |
| Dimensions                    | 365 x 750 x 785 mm     |
| Weight                        | 60 kg                  |
| Voltage                       | 400v, 3ph, 50-60hz, PE |