



ISO9001  
CERTIFIED

# WATER TEMPERATURE CONTROLLER



Control your process with  
**THERMOCLINE**

- 9-24 kW, 1 - 5 hp
- Field Serviceable
- Calibration to ISO 17025
- Easy to Operate
- Toll Free Tech Support
- Custom Design Units Available

## THERMOCLINE TCU FEATURES

Microprocessor PID Controller  
Process And Set Point Display  
Auto Shutdown on Low Water Pressure  
High Temperature Shut Down  
Adjustable Auto Vent

High Pressure Relief Valve  
Fault Indicator for Motor Overload  
Fault Indicator for Low Water Pressure  
Grounded Control Circuit  
Long Life Silicone Carbide Seal

Integrated Anodized Cast Aluminum Tank  
Minimal Piping  
ESA Certified  
Suitable for Operation up to 250°F

*Buy Direct From Manufacturer*



**AceTRONIC INDUSTRIAL CONTROLS INC.**  
TEL. 905.564.7227 • TOLL FREE. 1.800.803.8871  
WWW.ACETRONIC.COM • SALES@ACETRONIC.COM

# THERMOCLINE

## Water Temperature Control Unit

### STANDARD FEATURES

#### INSTRUMENTATION

Auto Tuning PID Controller  
Bright Process and Set Point Display  
Delivery and Return Gauges

#### DIAGNOSTICS

Fault Indicator for Motor Overload  
Fault Indicator for Low Water Pressure

#### PUMP

Construction: Bronze Fitted  
Impeller: Brass  
Casing: Cast Iron (A48-30)  
O-Ring: Buna-N  
Adapter: 416 Stainless Steel  
Pump Seal: Silicone Carbide

#### HEATER

Element: Incoloy Sheath  
Flange: Carbon Steel Bolt Mount  
Vessel: Anodized Aluminum Alloy  
Sizes: 9, 12, 18, and 24kW

#### MOTOR

3 Phase, 1 HP To 5 HP  
Low Maintenance  
Quiet Operation

#### CABINET

Hinged Control Panel Door  
Removable Panels  
Portable with Swivel Casters  
10ft of 10/4 AWG Cord

#### SAFETY SYSTEMS

CSA Approved Components  
High Pressure Relief Valve (150 psi)  
Fused Circuitry  
Auto Shut Down on Low Water Pressure  
High Temperature Shut Down  
Adjustable Auto Air Vent

#### OPTIONS

½" Proportional Cooling Valve  
Communications Interface RS 485  
Phase Reversal and Phase Loss Relay  
High/Low Audible Temperature Alarm  
Contact Output for Interlock or Alarm

ORDER CODE			
TH	5 A	09 B	1 C
	<b>A=VOLTAGE</b>	<b>B=HEATER KW</b>	<b>C = PUMP HP</b>
	5-575VAC	09-9kW	1-1HP
	4-480VAC	12-12kW	2-2HP
	2-240VAC	18-18kW	3-3HP
		24-24kW	4-4HP
FOR EXAMPLE			
TH509-1 would stand for thermocline unit with 575V supply, 9kW heater and 1HP pump.			

HEATING CAPACITY	PUMP (HP)	FLOW RATE (GPM)	CURRENT AT 600 VAC	CURRENT AT 480 VAC	CURRENT AT 240 VAC
9kW	1.00	35	11.0A	14.0A	27.0A
9kW	2.00	60	12.0A	16.0A	30.0A
12kW	1.00	35	14.0A	19.0A	30.0A
12kW	2.00	60	15.0A	20.0A	-
18kW	2.00	60	21.0A	26.0A	-
18kW	3.00	80	22.0A	27.0A	-
18-24kW	-	-	-	-	-

\*specifications are subject to change without notice



**AceTRONIC INDUSTRIAL CONTROLS INC.**  
TEL. 905.564.7227 • TOLL FREE. 1.800.803.8871  
WWW.ACETRONIC.COM • SALES@ACETRONIC.COM