

CMX

Water Circulating Temperature Controller

- **Water and Water/Glycol Solutions to 250°F**
- **4.5 - 24 kW (15 - 82 Mbh)**
- **240 and 480V, 3 Phase, 60 Hz**
- **125 Lb Carbon Steel Construction**
- **Heavy Duty 0.430" Dia. INCOLOY® Sheath Elements**
- **3/4 HP Cast Iron Bronze Fitted Centrifugal Pump (30 gpm @ 20 psi TDH)**
- **Electronic PID Temperature and Process Control (Dual Display)**
- **Built-in Diagnostics with Indicators for Pump Overload, Low Water Pressure and Overtemperature**
- **Compact, Portable Cabinet with Casters**
- **Easy Access Service Features**
- **NEMA 1 Electrical Enclosure with 120V Control Transformer and Mercury Contactors for Quiet Operation and Long Life**
- **Dual Pressure Gauges Monitor Pressure To and From Process**
- **Open or Closed-Loop Cooling (3.8 Ft² Heat Exchanger)**
- **Automatic Air Purge Valve**
- **Large Diameter (1-1/4" NPT) Process Piping Connections**
- **ASME 125 psig Relief Valve**

Applications

Chromalox microTHERM™ CMX Series Circulating Water Temperature Controllers are compact, versatile and completely self-contained water heating and cooling systems. The CMX series products can be used in any application where precision temperature control of a heating and cooling water circulation system is needed. They are particularly useful in the plastics industry as mold temperature controllers.

- Injection Molding Machines — Thermoplastics and Thermosets
- Platens and Dies
- Rolls, Laminating and Calendaring
- Pipeline Heating and Tracing
- Jacketed Vessels and Tanks

The built-in electronic temperature and process controller features separate PID algorithms for heat and cool control modes, dual display of setpoint and process temperatures and simple configuration parameters with alphanumeric cues. Even though microTHERM™ systems are sophisticated and state of the art, they are easy to use and require very little training to program and operate. Standard NPT threaded piping connections provide for convenient hook up to external piping.



Options

- **Alternate Voltages** available for 208 and 575V, 3 Phase, 60 Hz, and 240, 380 and 415V, 3 Phase, 50 Hz distribution systems
- **Alternate Pumps** rated 1.5, 3, 5 or 7.5 hp with pumping capacities to 80 gpm @ 70 psi TDH
- **Power Controllers** — Electronic Solid State (SCR)
- Surge Reduction Valve
- Digital Communication Interface
- Expanded Open or Closed-loop Cooling
- High Temperature Operation to 275°F
- Electrical Enclosure Door Interlock
- IEC Style "dry contact" Power Contactor.

Specifications and Ordering Information

kW	Volts	Phase	Pump Motor (HP)	DIM (In.)			Cooling Type	Model	Stock	PCN	Wt. (Lbs.)
				H	W	D					
4.5	240	3	3/4	29	15	25	Open Loop	CMX-250-4	AS	214017	200
4.5	480	3	3/4	29	15	25	Open Loop	CMX-250-4	AS	214025	200
4.5	240	3	3/4	29	15	25	Closed Loop	CMX-250-4C	AS	214113	215
4.5	480	3	3/4	29	15	25	Closed Loop	CMX-250-4C	AS	214121	215
9	240	3	3/4	29	15	25	Open Loop	CMX-250-9	S	214033	200
9	480	3	3/4	29	15	25	Open Loop	CMX-250-9	S	214041	200
9	240	3	3/4	29	15	25	Closed Loop	CMX-250-9C	S	214130	215
9	480	3	3/4	29	15	25	Closed Loop	CMX-250-9C	S	214148	215
12	240	3	3/4	29	15	25	Open Loop	CMX-250-12	AS	214050	200
12	480	3	3/4	29	15	25	Open Loop	CMX-250-12	AS	214068	200
12	480	3	3/4	29	15	25	Closed Loop	CMX-250-12C	AS	214156	215
12	240	3	3/4	29	15	25	Closed Loop	CMX-250-12C	AS	214164	215
18	240	3	3/4	29	15	25	Open Loop	CMX-250-18	S	214076	200
18	480	3	3/4	29	15	25	Open Loop	CMX-250-18	S	214084	200
18	480	3	3/4	29	15	25	Closed Loop	CMX-250-18C	S	214172	215
18	480	3	3/4	29	15	25	Closed Loop	CMX-250-18C	S	214180	215
24	240	3	3/4	29	15	25	Open Loop	CMX-250-24	AS	214092	200
24	480	3	3/4	29	15	25	Open Loop	CMX-250-24	AS	214105	200
24	240	3	3/4	29	15	25	Closed Loop	CMX-250-24C	AS	214199	215
24	480	3	3/4	29	15	25	Closed Loop	CMX-250-24C	AS	214201	215

Stock Status: S = stock AS = assembly stock NS = non-stock
To Order—Specify model, volts, phase, kW, PCN, options and quantity.