Thermonics

Process Chiller W-60-4700

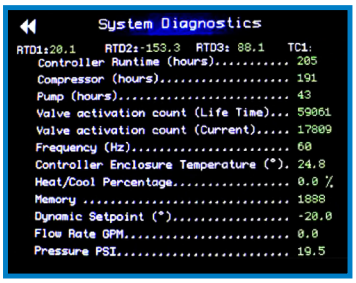
Thermonics specializes in the design and manufacture of low temperature standard and custom fluid chillers for challenging applications. The W-60-4700 FluidChill™ system delivers high reliability and precision temperature control.

FEATURES:

- Touch-screen controller provides precise temperature control with data logging, graphing, performance monitoring, and fault alarms
- Magnetically coupled pump to match wetted materials
- Compatible with multiple heat transfer fluids
- Communications options for remote control and reading chiller parameters

CHILLER SPECIFICATIONS						
COOLING AND HEATING CAPACITY						
Cooling Capacity	℃	+25	0	-20	-40	-60
	kW	6.8	6.8	6.2	5.4	4.7
Condenser	Water-cooled					
Process Heater	1.7kW					
Process Fluid Set Point Range	-60 to +50°C					
Fluid Stability	±0.5°C (at rated load)					
PUMP AND PROCESS FLUID						
Pump	Gear or Turbine					
Process Fluid	Compatible with a variety of process fluids. Published specifications using Sylltherm XLT.					
Wetted Materials	Standard materials include copper, nickel, brass, and plastic. *Optional*: Fully stainless steel					
Flow Rate	4 GPM (15.1 LPM) at 50 PSIG. *Optional*: Flow monitoring and control					
Available Pressure	50 PSIG (or less), *Optional*: Pressure monitoring and control					
Fluid Connections	0.75" NPT					
CONTROLS AND COMPLIANCE						
User Interface	5.7" color touch-screen with temperature graphing and charting					
Temperature Measurement	Range: -210 to +680°C, Resolution: 0.1°C full scale					
Remote Communications	Ethernet, Serial-USB, Web server. *Optional*: RS-232					
Alarms	Low Flow, Low Reservoir, Out-of-temp Range. *Optional*: Drip Tray					
Diagnostics	Runtime hours (controller, chiller, compressor, pump), system performance log, valve activation counts, enclosure temperature					
Chiller Compliance	CE / RoHS / designed to meet UL1995/UL61010					
OPERATING REQUIREMENTS						
Ambient Temperature Range	10 to 40°C					
Power Requirement	3-phase, 208 to 230v, 60Hz					
Facility Water Requirements	**Flow**: 10.5 to 12.5 GPM (39.7 to 47.3 LPM), **Temperature**: 10 to 32°C (20°C nominal) **Pressure**: 10 to 50 PSIG (40 PSIG nominal), **Connection**: 0.75" NPT					
System Dimensions (approx.)	43.0"W X 60.0"D X 64.0"H (109.2 X 152.4 X 162.6cm)					

Programmable touch-screen controls with diagnostics and remote communications



Cooling capacity with 50Hz power reduced by approximately 17%. Consult factory for additional flow rate options. Specifications subject to change.

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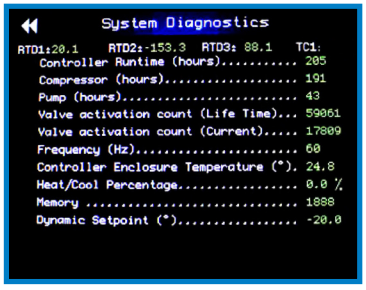
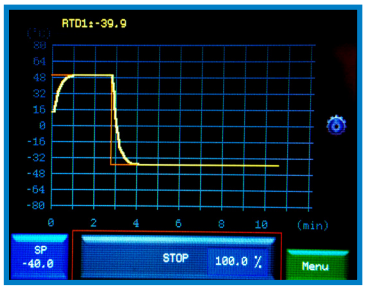
Thermonics

Chiller Controller





The chiller controller provides precision temperature control with touch-screen operation, easy-to-read information, remote operation, and data logging.

Developed by our in-house engineering team, this controller provides flexible setup and customization not readily achievable with PLCs.

FEATURES:

- Displays critical parameters such as fluid supply and return temperature and pressure (based on chiller options selected)
- Alarms for out-of-temperature range, low process flow, low reservoir level, and more
- Built-in diagnostics – valve counts, ambient temp, equipment runtimes
- Displays temperature graphs
- Communicates via Ethernet, USB, HTML Web server, RS-232 (optional)
- Logs system data and performance
- CE and RoHs compliant

CONTROLLER SPECIFICATIONS	
Temperature Measurement	Range: -210 to +680°C, Resolution: 0.1°C full scale
User Interface	5.7” color touch-screen with temperature graphing and charting
Control Safety	High and low temperature limits, Independent fail-safe modules (IFM, optional)
Diagnostics	Runtime hours (controller, chiller, compressor, pump), system performance log, valve activation counts, enclosure temperature
Operating Environment	Temperature: 10 to 50°C, Humidity: 0 to 50%
Temperature Sensors	Remote RTD (500 Ohm), thermocouple (type K)
Control Algorithms	Primary loop PID, Dual loop multiple RTD control mode
Communication Interfaces	Ethernet 10/100, Telnet, HTML web server, USB 2.0. RS232 (optional)
Alarms	Low Flow, Low Reservoir, Out-of-Temp Range. *Optional*: Drip Tray
Controller Compliance	CE / RoHS / UL61010

ISO REGISTERED ITAR

The inTEST Thermal family includes three temperature-related corporations: Temptronic, Sigma Systems, and Thermonics.