

Thermonics

Process Chiller A-40-1100

Thermonics specializes in the design and manufacture of low temperature standard and custom fluid chillers for challenging applications. The A-40-1100 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 SPECIFICATIONS							
	kW	6.6	6.6	4.0	1.1	0.5	
Condenser	Air-cooled						
Process Heater	1.7kW						
Process Fluid Set Point Range	-40 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 Syltherm 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	0.5" NPT						
	CONTROLS	S AND COM	MPLIANCE				
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 32°C (25°C nominal)						
Power Requirement	3-phase, 208 to 230v, 60Hz						
System Dimensions (approx.)	22.0" X 42.0" X 75" (55.9 X 106.7 X 190.5 cm)						



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.





Chiller Controller

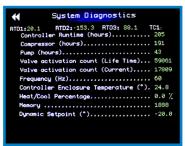
The chiller controller provides precision temperature control with touch-screen operation, easy-to-read information, remote operation, and data logging.

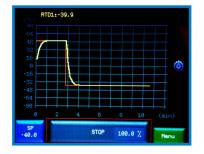
Developed by our in-house engineering team, this controller provides flexible setup and customization not readily achievable with PLCs.

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. <i>Optional</i> : Independent fail-safe modules (IFM)		
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, Serial- USB. <i>Optional</i> : RS-232		
Alarms	Low Flow, Low Reservoir, Out-of-Temp Range. <i>Optional</i> : Drip Tray		
Controller Compliance	CE / RoHS / UL61010		



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