

Troubleshooting Guide

Refrigerated Recirculating Chillers

**Powerful Cooling
Microprocessor Controller
Digital Set & Read with
High Flow Centrifugal Pump or
Positive Displacement Pump**

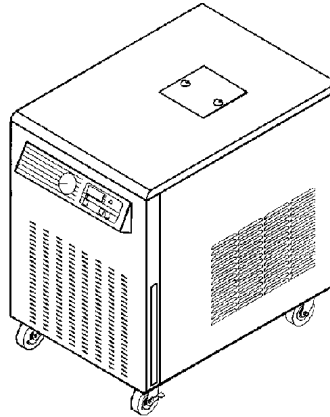


Table of Contents

Section 1 - Troubleshooting

- 1.1 Unit Disabled
- 1.2 No Pumping
- 1.3 Insufficient Pumping
- 1.4 No Cooling or Insufficient Cooling

Section 2 - Service and Technical Support

Section 3 - Replacement Parts



This symbol marks chapters and sections of this instruction manual which are particularly relevant to safety.

When attached to the unit, this symbol draws attention to the relevant section of the instruction manual.



This symbol indicates hazardous voltages may be present.

Section 1 - Troubleshooting

**WARNING! Refer servicing to qualified service personnel.
When power is on, dangerous voltages exist within the chassis components.
Use extreme care when measuring voltages on a live circuit.**

1.1 Unit Disabled

Check the power to the unit. Be sure the circuit breaker on the rear panel is on. Try defaulting the chiller per Section 3.7. If the unit continues to display an error message or no message, request service.

1.2 No Pumping

Check if pump motor is running. Check fluid level in the whole system to be sure the pump is receiving fluid. Check for blockage within the circulating system.

1.3 Insufficient Pumping

Check for low line voltage. Hose diameter may be too small. Fluid viscosity may be high. Check for restrictions in connecting tubing.

1.4 No Cooling or Insufficient Cooling

Check for low or high line voltage. Check for blocked airflow through ventilation screens. Refrigeration unit should not be operated above 32°C ambient temperature. Such a condition may cause the refrigeration compressor to temporarily shut down. Wait for 10 minutes in between stopping and starting the chiller. Check if heat is being added within the circulating system in excess of the refrigeration system's capacity.

Section 2 - Service and Technical Support

If you have followed the troubleshooting steps and your chiller fails to operate properly, contact the company where unit was purchased. Have the following information available for the customer service person:

- Model and Serial Number
- Voltage (from back panel label)
- Date of purchase and your purchase order number
- Suppliers' order number or invoice number
- A summary of your problem

Section 3 - Replacement Parts

<u>Description</u>	<u>Part #</u>
Display PC Board	500-109
Modulating PC Board, 120V	500-101
Modulating PC Board, 240V	500-102
Modulating PC Board (1), 230V for Model 6155	500-199
Modulating PC Board, (2) 230V for Model 6155	500-200
Alternister, for the Model 6155	200-336
Main PC Board, 120V	500-144
Main PC Board, 240V	500-145
Main PC Board, 230V for Model 6155	500-198
Centrifugal Pump & Motor, 120V, 50/60Hz	215-181
Centrifugal Pump & Motor, 240V, 50/60Hz	215-182
Positive Displacement Pump Only, 1 gpm.	215-105
Positive Displacement Pump Only, 4 gpm.	215-106
Positive Displacement Pump Motor, 1/4 hp, 120V, 60Hz.	215-102
Positive Displacement Pump Motor, 1/3 hp, 208-240V,50Hz	215-103
Turbine Pump Motor	215-305
Air Filter	400-388
Filter/Strainer Assembly For Positive Displacement Pumps	300-098
Refrigeration Head Sensor	200-167
Refrigeration Suction Sensor	200-168
Accessory External Pressure Reducing Assembly, 10-45 psi	060302
Accessory External By-Pass Loop Kit Assembly	510-147
IEC Main Line Cord, 120V	225-303
IEC Main Line Cord, 240V	225-228
Solid State Relay	200-336
Flow Switch Assembly	525-461
Operators Manual	110-116