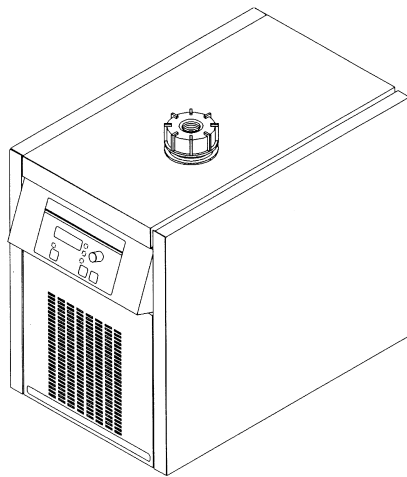


Troubleshooting Manual

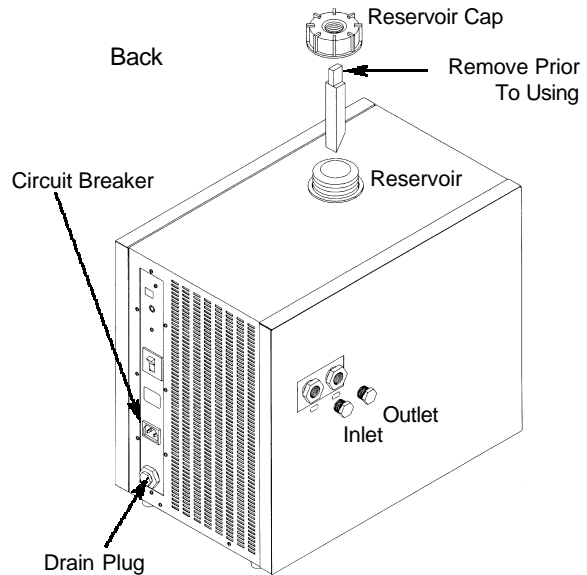
Refrigerated & Heating Mini - Chiller

Model 5005

Front



Back



110-105
11/99

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Section 1 - Troubleshooting

1.1 Unit Disabled

Check the power to the unit. Be sure the circuit breaker located at the bottom of the rear panel is on. Try resetting the chiller using Default Settings in section 1.5. 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.

1.5 Controller Default Settings

Should the need arise, the following steps return all settings to the factory default values.

1. While unit is powered up, use the circuit breaker (at rear of unit) to turn unit off. (see cover page for unit's diagram)
2. Hold the SET/MENU button, while turning the unit back on at the circuit breaker.
3. The controller displays "DEF" and goes to the standby mode.
4. The set temperature and other settings will have to be reset.

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

Description	Part #
Display PC Board	500-109
Modulating PC Board, 120V	500-101
Modulating PC Board, 240V	500-102
Main PC Board, 120V	500-112
Main PC Board, 240V	500-113
Centrifugal Pump & Motor, 120V, 50/60HZ	215-181
Centrifugal Pump & Motor, 240V, 50/60Hz	215-182
Filter Assembly, Nylon, Holder & Strainer	300-098
Refrigeration Head Sensor	200-134
Refrigeration Suction Sensor	200-135
Air Filter	400-388
Line Cord (120V)	225-227
Line Cord (240V)	225-228
External Pressure Reducing Assembly, 10-45PSI	060302