

# Troubleshooting Manual

## **Model 9805 Large Volume Refrigerated Open Bath**

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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 back to the default setting, see paragraph 4.7. 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. Remove the perforated support plate at the bottom of the bath and check for blockage in the inlet or outlet of the circulating system.

### 1.3 Insufficient Pumping

Check for low line voltage. If you are not using water, fluid viscosity may be high. Check for partial blockage in the inlet or outlet openings in the reservoir.

### 1.4 No Cooling or Insufficient Cooling

Check for low or high line voltage. Check for blocked airflow through ventilation screens. Check if heat from immersed samples being added within the circulating system is exceeding the refrigeration system's capacity.

### 1.5 No Heating

Check if unit is pumping properly. If heat light is not on, check the setpoint temperature and bath temperature. Check fluid level of the system. Check for excessive mineral deposits coating the heater.

### 1.6 Insufficient Heating

Check if unit is pumping properly. Check for proper line voltage. Check for excessive external cooling load on unit. Variance of heat load on the system may exceed the heating capability of the unit. Check for excessive mineral deposits coating the heater. Changes in heat load or setpoint will require time to settle to a stable temperature.

### 4.7 Controller Default Settings

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

1. With unit powered on, unplug the power cord. (Or turn off circuit breaker.)
2. Hold the SET/MENU button while plugging the power cord back in. (Or turning circuit breaker back on.)
3. The controller will display "dEF" and go to the standby mode.
4. The control point and other settings will have to be reset.

## Section 2. Service and Technical Support

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

- 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

<b>Description</b>	<b>Part #</b>
Display PC Board . . . . .	500-109
Modulating PC Board, 240V . . . . .	500-102
Main PC Board, 240V . . . . .	500-141
Centrifugal Pump ASM, 240V, 50/60Hz . . . . .	540-293
Refrigeration Sensor Assembly . . . . .	525-329
Heater, 2250 Watts, 240V . . . . .	215-257