

## REFRIGERATION PROBLEMS, SENSIT II

### Refrigeration Unit Not Running

- 1) Check to see if you can get into your service mode.
- 2) Check and record any error codes
- 3) Check temp setting
- 4) Check to make sure the vendor is not pushed against the wall.
- 5) Check the bottom and rear screen to make sure they are clean.
- 6) Open the main door, check the harnesses for any damage.
- 7) Unplug the refrigeration unit from the vendor and plug it into a extension cord at a different outlet to see if the unit will come on and start to frost up.
- 8) If the unit came on with it plugged into the extension cord plug it back into the vendor and tape the door switch down to see if it will start. You may have to wait up to 3 minutes before it starts back up.
- 9) If it does not start up, find the harness that contains the brown and yellow wires at the bottom right side of the cabinet. Check the harness for the 24VDC current from the control board.  
**Note: The door switch has to be held in or taped down to do the voltage check.**
- 10) If you do not get the 24VDC current check the refrigeration harness from the control board for any damage. Then check at the control board, the J3 plug, pins 5 and 6 for the 24VDC. If you do not get any reading then change the board.  
**Note: The door switch must be held in to get the power reading.**
- 11) 11) If you get the 24VDC current, then check the voltage at the relay. You will need to remove the transformer cover to gain access to the relay. Check the brown and yellow for the 24VDC current. If you do not get a reading then replace the refrigeration relay harness. If you do get the 24VDC current then it most likely that the relay has went bad.
- 12) 12) If you get the 24VDC current to the relay and the relay is working check the outlet to see if the 120V A V is making it to the refrigeration outlet. If you do not get a power there replace the power distribution harness.

### Health & Safety Errors

#### Health & Safety #1

- 1) Check to make sure the vendor is not against the wall.
- 2) Check bottom and rear screen to see if they are dirty
- 3) Check data logs for time vendor rose in temperature.
- 4) If chiller cover was off, check to make sure it has a good seal. Also check to make sure the permagum was put back on around the refrigeration line and drain tube.
- 5) Make sure that the upper and lower coin doors are on. If not replace them.
- 6) Check to make sure the vendor is on its own circuit, and that it has the correct amperage circuit breaker.

#### Health & Safety # 2

- 1) Check to make sure the vendor is not against the wall.
- 2) Check bottom and rear screen to see if they are dirty
- 3) Check data logs for the time and temperature that the vendor went out on ths H&S.
- 4) If chiller cover was off, check to make sure it has a good seal. Also check to make sure the permagum was put back on around the refrigeration line and drain tube.
- 5) Make sure that the upper and lower coin doors are on. If not replace them.
- 6) Check to make sure the vendor is on its own circuit, and that it has the correct

amperage circuit breaker.

### **Health & Safety #3**

- 1) Check door switch to make sure it is not broke
- 2) Check to see if the door switch spring is on the vendor.
- 3) Check the door switch wires on the door switch and on the control board to make sure they are plugged in.
- 4) If everything checks out ok replace the door switch.

### **120 Degree Temperature Reading**

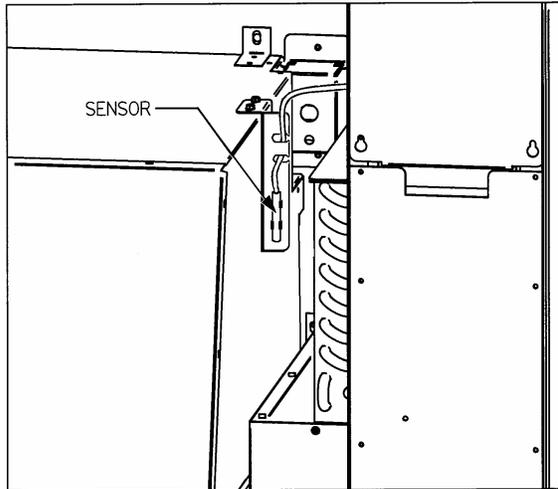
Intentional or accidental disconnection of the temperature sensor will cause the control board to assume a temperature reading of 120°F/49C.

- 1) Check temperature sensor harness for any cuts or breaks
- 2) Check to make sure that the temperature sensor is plugged into the detector, primary sensor.
- 3) Replace temperature or detector if needed.

## 8.9 TESTING THE TEMPERATURE SYSTEM

### (Health and Safety)

1. Enter the service mode (refer to Section 6.0).
2. Press **#** until the Temperature section appears, then press **2** to view the current set point. The temperature will be displayed in both Fahrenheit and Celsius. Setpoint of the vendor must be 41°F or lower for the H&S option to be enabled.
3. At this point the sensor can either be temporarily disconnected, causing the controller to assume a temperature of 120°F/49C, or relocated outside the cabinet. Relocating the sensor outside will allow the sensor to be tested as well.



**Figure 8.3 Temperature Sensor**

4. The sensor is mounted to its bracket using two spring clamps (refer to Figure 8.3). To remove it, first unwrap the sensor wire from the two slots in the bracket, and then slide the sensor out of the two spring clamps.
5. If the sensor is relocated outside the vendor, carefully close the door and allow the sensor bulb to exceed 41°F when the door is closed. The temperature may be monitored by pressing the \* button (the sensor bulb has a 20-25 second response delay to minimize hysteresis error before the correct temperature is displayed).
6. 30 minutes after the door is closed and the temperature exceeds 41°F, the display should read "OUT OF SERVICE- HS2". The vendor will not vend products until the door is opened and the error is cleared (refer to Section 6.1).
7. After testing, remount the temperature sensor on the two spring clips, and carefully re-wrap the sensor wire in the two bracket slots ensuring the wire is not caught or pulled, and is not pinched when the door is closed.
8. Close vendor door. The vendor will return to normal operation (including a cool-down time if needed).