

## TROUBLE SHOOTING FOR BAIN MARIES & PIE WARMERS

### PROBLEM

#### 1. EO DISPLAYED

This fault can occur due to :

1. A break in sensor cable or poor connection.
2. Sensor is open circuit. Check continuity.

Heater load contactor/relay has stuck closed causing heater to stay on to a point where it will exceed sensor threshold.

Black lead probe with steel end is 90 degrees Celsius.

White lead with probe is 150 degrees Celsius.

#### REMEDY

Replace probe or repair connection. Replace heater load contactor/relay if faulty.

#### 2. CABINET RUNNING TOO HOT

Check heater load relay. If controller temperature set point is exceeded and controller is not calling for heater then relay is at fault.

#### REMEDY

Replace heater load contactor/relay only.

#### 3. CABINET NOT HEATING

Can be caused by the following and applies to all Cossiga products.

Is there POWER TO CABINET AND IS IT SWITCHED ON OR CONNECTED?

If there is power at supply point and green supply switch is on (cabinet will be illuminated if it is on). If there is still no display on controller then there may be a fault in the green main supply switch.

#### REMEDY

Check connections to switch or replace if faulty.

Break in NEUTRAL to heater load contactor/relay.

**REMEDY**

**Check wiring for continuity faults.**

No voltage out of heater load contactor/relay but contactor/relay is energized.  
This means contacts in heater load contractor/relay faulty.

**REMEDY**

**Replace contactor/relay.**

Voltage out of controller to heater load contactor/relay, contactor/relay energized and voltage out of that but heater not heating.

- A. Heater has open circuited
- B. Connections at heater burnt or loose or wiring or break in circuit.

**REMEDY**

**Replace heater if faulty – repair any faulty wiring or connections.  
This applies to both Bain Maries and Pie Warmers.**

Circuit breaker (BAIN MARIE ONLY) has not been reset on commissioning.  
Sometimes not switched on after factory testing.

**REMEDY**

**Reset circuit breaker.**

Fan motor or motors not operating. Check they are physically moving under power because they can be spinning under air force of other operational motors.  
**PIE WARMERS ONLY** this will cause cabinet not to heat adequately.

**REMEDY**

**Replace any faulty motors.**

Doors **NOT BEING CLOSED**. If cabinet is self service then this has to be monitored by end users.

Product being stored is not heated to its correct core temperature before being stored in cabinet. Cabinet is not designed to hold and maintain a set temperature – it is not an oven - **PIE WARMERS ONLY.**

**NOTE** – No alarm settings are pre programmed ex factory on Bain Marie or Pie Warmers, so if any temperature alarms occur then someone has tampered with internal parameters.

### **LIGHT FAULTS**

Bain Marie canopy lights not on

#### **REMEDY**

**This is normally caused by a bulb or bulbs failing, fittings that hold the bulbs are faulty or there is a bad connection.**

Pie Warmer and Bain Marie cabinets can also develop faults with white light switch from time to time.

#### **REMEDY**

**Replace switch.**

Pie Warmers and heated models with fluorescent lighting not operating. This is usually caused by tube and starter failure, lamp holder and wiring connection failing or ballast failure.