

# TRAULSEN TECHNICAL BULLETIN

### PRODUCT SERVICE DEPARTMENT

FORT WORTH, TX 76106

# TROUBLSHOOTING A FROZEN EVAPORATOR COIL

#### Introduction:

This bulletin is intended to aid in diagnosing the root cause of a frozen evaporator coil on a Traulsen upright reach-in refrigerator or freezer. This technical bulletin may not cover all situations that may arise in the field and final diagnosis of field based equipment is the sole responsibility of the technician contracted to perform any work required.

## **Troubleshooting Table**

Potential Causes	Details
Cabinet Sensor out of tolerance (See TTB006 Sensors for sensor troubleshooting)	Color: Green
	Control parameter □□
	Reads return air
	<ul> <li>Compressor cycles off of cabinet sensor value</li> </ul>
Coil Sensor out of tolerance (See TTB006 Sensors for sensor troubleshooting)	Color: Blue
	Control parameter EL
	<ul> <li>Reads evaporator coil temperature</li> </ul>
	<ul> <li>Terminates defrost @ 45°F</li> </ul>
	Fan delay
Ambient Air Infiltration	<ul> <li>Door(s) not closing properly</li> </ul>
	<ul> <li>Gasket(s) not sealing properly</li> </ul>
	<ul> <li>Door(s) left open for extended periods of time</li> </ul>
	<ul> <li>Evaporator hump cover not sealed properly</li> </ul>
Compressor relay stuck closed	Coil voltage 12VDC
	Coil wires: Pink
	Contacts
	<ul> <li>Common: Black wire</li> </ul>
	<ul> <li>N/O: Blue wire</li> </ul>
Lack of Air Flow	<ul> <li>Evaporator fan motor not functioning</li> </ul>
	<ul> <li>Obstruction in air duct or at evaporator coil</li> </ul>
Refrigeration System (Traulsen	Low charge
recommends the refrigeration system be tested using the methods outlined in TTB009)	Restricted metering device
	Moisture/contaminates in the system
Defrost Heater	Defrost heater open
	<ul> <li>Defrost heater circuit or relay open</li> </ul>
Control Settings	Set point to low (refrigerator only)
(See All Series – Quick Reference Guide for	。 Control parameters: 与É or 与H & 与PL
instructions on accessing the control head)	(depending on the age of control system)
	Defrost lockouts set to frequently
	○ Control parameters: 리니,리그,리그,리그니

### **Contact Traulsen Technical Service:**

If further assistance is needed feel free to contact Traulsen Technical Service at 800-825-8220 between the hours of 7:30am - 11:30am CST & 12:30pm - 4:30pm CST.