Adaptive Defrost Control (ADC)
LED Light Normal Operation / Fault Code Indication

Normal Operation	LED Light Indication

Cooling Mode
- compressor running
- compressor not running

LED 1 blink / second

Defrost Mode
- defrost heater on (bi-metal closed)
- defrost heater not on - dwell / drip time (bi-metal open)
- Total defrost time – 23 minutes ***
  (***this is a variable defrost heater on time + dwell / drip time which totals 23 minutes)

LED continuously on

NOTE: On a new installation of an ADC, the unit is programmed to cycle the compressor on-off for four (4) hours of **CUMULATIVE** compressor run time before a defrost cycle can begin.

If a defrost cycle is needed sooner, jumper between terminals "L1 and TEST" with an insulated screwdriver. This will start the defrost cycle, **ONLY** if the defrost bi-metal thermostat contacts are closed and the defrost heater has continuity.

Fault Modes	LED Fault Code Indication

Cooling Operation Failure
- Compressor runs continuously
  - Leaking gasket
  - Insufficient airflow across evaporator
    - blocked freezer ducts
    - air diffuser incorrectly set
    - no airflow over the cold control sensing element
    - iced coil
    - evaporator fan motor inoperative
  - Insufficient airflow across condenser
    - dirty condenser
    - condenser shroud loose or missing
    - condenser fan motor inoperative
  - Refrigerant leak
  - Bad compressor valves
- Compressor does not run
  - Compressor overload open – no continuity
  - PTC relay "power pill" inoperative
  - Cold control failed open
  - ADC relay failure
  - Internal compressor failure

LED 3 fast blinks / 2 seconds off

Defrost Operation Failure
- Defrost heater open – no continuity
- Defrost bi-metal failed open – no continuity
- Defrost bi-metal not attached to low side line
- ADC failure

LED 4 fast blinks / 2 seconds off

Defrost Termination failure
- Defrost bi-metal failed close

LED 5 fast blinks / 2 seconds off

Undefined failure
- No power to refrigerator
- No power to ADC
- ADC failure

LED continuous off

NOTE: Record any fault code on work order prior to clearing fault code. This will aid in identifying a reoccurring problem.

To clear ADC fault code, jumper between terminals "L1 and TEST" with an insulated screwdriver.

All LED error codes are retained during a power interruption, until normal operation resumes.

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