

## 7-7-6 Error Codes [5111, 5112, 5115, 5116]

### 1. Error code definition

**5111**

Liquid inlet temperature sensor (TH11) fault (BC controller)

**5112**

Bypass outlet temperature sensor (TH12) fault (BC controller)

**5115**

LEV3 outlet temperature sensor (TH15) fault (BC controller)

**5116**

LEV3 inlet temperature sensor (TH16) fault (BC controller)

### 2. Error definition and error detection method

- ♦If a shorted (high temperature intake) or open (low temperature intake) thermistor (TH11, TH12, TH15, or TH16) is detected during operation, the unit makes an error stop, and an error code "5111," "5112," "5115," or "5116" appears on the display.
- ♦Detection of a short- or open-circuit as described above is suspended during the defrost cycle and for 3 minutes after the operation mode is changed.

### 3. Cause, check method and remedy

Cause	Check method and remedy
(1) Thermistor failure	Check thermistor resistance.
(2) Pinched lead wire	Check for pinched lead wire.
(3) Torn wire coating	Check for wire coating.
(4) A pin on the male connector is missing or contact failure	Check connector.
(5) Disconnected wire	Check for wire.
(6) Thermistor input circuit failure on the control board	Check the intake temperature of the sensor with the LED monitor. When the temperature is far different from the actual temperature, replace the control board.

<Reference>

	Short detection	Open detection
TH11	110 °C [230 °F] and above (0.4 k Ω)	-40 °C [-40 °F] and below (130 k Ω)
TH12	110 °C [230 °F] and above (0.4 k Ω)	-40 °C [-40 °F] and below (130 k Ω)
TH15	70 °C [158 °F] and above (0.4 k Ω)	-40 °C [-40 °F] and below (130 k Ω)
TH16	110 °C [230 °F] and above (0.4 k Ω)	-40 °C [-40 °F] and below (130 k Ω)