

7-3-3 Error Code [1302] (during operation)

1. Error code definition

High pressure fault 1 (Outdoor unit)

2. Error definition and error detection method

- 1) If the pressure of 3.78MPa [548psi] or higher is detected by the pressure sensor during operation (the first detection), the outdoor stops once, turns to antirestart mode for 3 minutes, and restarts after 3 minutes automatically.
- 2) If the pressure of 3.78MPa [548psi] or higher is detected by the pressure sensor again (the second detection) within 30 minutes after the first stop of the outdoor unit, the outdoor unit stops once, turns to anti-restart mode for 3 minutes, and restarts after 3 minutes automatically.
- 3) If the pressure of 3.87MPa [561psi] or higher is detected by the pressure sensor (the third detection) within 30 minutes of the second stop of the outdoor unit, the outdoor unit will make an error stop, and the error code "1302" will be displayed.
- 4) If the pressure of 3.78MPa [548psi] or higher is detected more than 30 minutes after the stop of the outdoor unit, the detection is regarded as the first detection, and the operation described in step 1 above will start.
- 5) For 30 minutes after the stop of the outdoor unit, preliminary errors will be displayed on the LED display.
- 6) The outdoor unit makes an error stop immediately when not only the pressure sensor but also the pressure switch detects $4.15^{+0,-0.15}$ MPa [$601^{+0,-22}$ psi]
- 7) Open phase due to unstable power supply voltage may cause the pressure switch to malfunction or cause the units to come to an abnormal stop.

3. Cause, check method and remedy

Cause	Check method and remedy
(1) Indoor unit LEV actuation failure	Perform a heating operation and check the operation.
(2) BC controller LEV malfunction Heating only or heating main : Indoor LEV 3 Defrost : LEV3	Cooling: LEV on the indoor unit LEV1,2,3 SVM1,1b,2,2b SVA
(3) BC controller SVM1 and 2 malfunction →Cooling only or defrost	Heating: LEV on the indoor unit LEV3
(4) BC controller SVA and SVC malfunction →Cooling only or cooling main	SVM2,2b SVB,SV4a - 4d
(5) BC controller SVB malfunction →Heating only or heating main Solenoid valve SV malfunction(4a-4c (P72, P96 models) ,4a-4d(P120, P144, P168 models)) →Cooling only or cooling main	Refer to the following page(s). [8-8 Troubleshooting LEV Problems](page 314)
(6) Port address setting error.	Confirm the port address of the indoor unit.
(7) Refrigerant service valve actuation failure	Confirm that the refrigerant service valve is fully open.
(8) Short cycle on the indoor unit side	Check the indoor units for problems and correct them, if any.
(9) Clogged filter on the indoor unit	
(10) Reduced air flow due to dirty fan on the indoor unit fan	
(11) Dirty heat exchanger of the indoor unit	
(12) Indoor fan (including fan parts) failure or motor failure Items (7) through (12) above reduce the condensing capability of the unit, resulting in high-pressure rise during heating operation.	
(13) Short cycle on the outdoor unit	Check the outdoor units for problems and correct them, if any.
(14) Dirty heat exchanger of the outdoor unit	
(15) Outdoor fan (including fan parts) failure, motor failure, or fan controller malfunction Items (13) through (15) above reduce the condensing capability of the unit, resulting in high-pressure rise during cooling operation.	Check the fan on the outdoor unit. Refer to the following page(s). [8-7 Troubleshooting Outdoor Unit Fan Problems](page 313)
(16) Solenoid valve (SV1a) malfunction The by-pass valve (SV1a) can not control rise in high pressure.	Refer to the following page(s). [8-6 Troubleshooting Solenoid Valve Problems](page 309)
(17) Thermistor failure (TH3, TH7)	Refer to the following page(s). [7-7-2 Error Codes [5103, 5104, 5105, 5106, 5107]](page 243)

Cause	Check method and remedy
(18) Pressure sensor failure	Refer to the following page(s). [8-5-1 Comparing the High-Pressure Sensor Measurement and Gauge Pressure](page 307)
(19) Failure of the thermistor input circuit and pressure sensor input circuit on the controller board	Check the sensor temperature/pressure on the LED monitor.
(20) Thermistor mounting problem (TH3, TH7) (21) Disconnected male connector on the pressure switch (63H1) or disconnected wire	Check the sensor temperature/pressure on the LED monitor.
(22) Voltage drop caused by unstable power supply voltage	Check the input voltage at the power supply terminal block (TB1).

7-3-4 Error Code [1302] (at startup)

1. Error code definition

High pressure fault 2 (Outdoor unit)

2. Error definition and error detection method

If the pressure of 0.098MPa [14psi] or lower is registered on the pressure sensor immediately before start-up, it will trigger an abnormal stop, and error code "1302" will be displayed.

3. Cause, check method and remedy

Cause	Check method and remedy
(1) Inner pressure drop due to a leakage.	Refer to the following page(s). [8-5-1 Comparing the High-Pressure Sensor Measurement and Gauge Pressure](page 307)
(2) Pressure sensor failure	
(3) Shorted-circuited pressure sensor cable due to torn outer rubber	
(4) A pin on the male connector on the pressure sensor is missing or contact failure	
(5) Disconnected pressure sensor cable	
(6) Failure of the pressure sensor input circuit on the controller board	