

12-3. Troubleshooting check table

Note . LED indicates "00" in the normal status.

7-segment LED display	Error mode
00	Normal

* If there is defect in the following parts(electronic control P.C. board, relay P.C. board, high pressure switches(63H1,63H2),indoor /outdoor fan motor , or indoor coil thermistor), the compressor may stop even with the display remained at " 00 ".In any case, reset the breaker and check the above-stated parts.

Symptom	Outdoor unit does not operate.		
Display	Detecting method	Detecting method	Check points
A4 (A4)	Outdoor power system abnormality	When the compressor operation has been interrupted by overcurrent protection continuously three times within 1 minute after start-up, the compressor stops operation.	<ul style="list-style-type: none"> • Inverter output • Compressor
A3 (A3)	Outdoor electronic control P.C. board abnormality	When the nonvolatile memory data cannot be read properly on the outdoor controller board	<ul style="list-style-type: none"> • Outdoor electronic control P.C. board
P1 (P1)	Indoor unit and LEV abnormality	When the drain abnormality is detected in the indoor unit and the indoor main coil temperature is too low, or when any abnormality is detected in the components of indoor unit	<ul style="list-style-type: none"> • Check the abnormality indication on the indoor unit. • LEV

Symptom	Outdoor unit stops and restarts every 3 minutes.		
Display	Detecting method	Detecting method	Check points
E9 (E9)	Evaporation temperature thermistor abnormality	The compressor stops when a short or open circuit occurs in the evaporation temperature thermistor during compressor running.	<ul style="list-style-type: none"> • Check the characteristic of the evaporation temperature thermistor. Refer to ㉔ on page 32. • Check the contact of P. C. board connectors.
E6 (E6)	Discharge temperature thermistor abnormality	The compressor stops when a short or open circuit occurs in the discharge temperature thermistor during compressor running.	<ul style="list-style-type: none"> • Check the characteristic of the discharge temperature thermistor. Refer to ㉔ on page 32. • Check the contact of P. C. board connectors.
F8 (F8)	Fin temperature thermistor abnormality	The compressor stops when a short or open circuit occurs in the fin temperature thermistor during compressor running.	<ul style="list-style-type: none"> • Check the characteristic of the fin temperature thermistor. Refer to ㉔ on page 32. • Check the contact of P.C. board connectors.
A8 (A8)	Overcurrent protection	When over current is applied to the power module, the compressor stops and restarts in 3 minutes.	<ul style="list-style-type: none"> • Check the inverter and compressor. Refer to ㉔ on page 31. • Check the amount of gas. • Check the indoor/outdoor air flow for short cycle. • Check the indoor unit air filter for clogging.
d6 (d6)	Discharge temperature overheat protection	When the discharge temperature thermistor detects 116°C or above, the compressor stops and restarts operation in 3 minutes. (Protection will be released at 100°C or below.)	<ul style="list-style-type: none"> • Check the amount of gas and the refrigerant cycle. • Check the outdoor unit air passage.
d4 (d4)	Fin temperature overheat protection	When the fin temperature thermistor detects 89°C or above, the compressor stops and restarts operation in 3 minutes.	<ul style="list-style-type: none"> • Check the outdoor unit air passage. • Check the power module. • Check the outdoor fan motor. Refer to ㉔ on page 32.
d7 (d7)	High pressure protection	When the compressor starts, primary current or output voltage stops the compressor and restarts in 3 minutes.	<ul style="list-style-type: none"> • Amount of gas • Outdoor unit air passage. • Check the ball valve.
F5 (F5)	Room-A gas pipe temperature thermistor abnormality	When a short or open circuit occurs in the Room-A gas pipe temperature thermistor.	<ul style="list-style-type: none"> • Room A gas pipe temperature thermistor characteristic. • Contact of P.C. board connectors.
F6 (F6)	Room-B gas pipe temperature thermistor abnormality	When a short or open circuit occurs in the Room-B gas pipe temperature thermistor.	<ul style="list-style-type: none"> • Room B gas pipe temperature thermistor characteristic. • Contact of P.C. board connectors.
F7 (F7)	Room-C gas pipe temperature thermistor abnormality	When a short or open circuit occurs in the Room-C gas pipe temperature thermistor.	<ul style="list-style-type: none"> • Room C gas pipe temperature thermistor characteristic. • Contact of P.C. board connectors.
P9 (P9)	Room-D gas pipe temperature thermistor abnormality	When a short or open circuit occurs in the Room-D gas pipe temperature thermistor.	<ul style="list-style-type: none"> • Room D gas pipe temperature thermistor characteristic. • Contact of P.C. board connectors.



Symptom	Outdoor unit operates. (The compressor operates at reduced frequency.)		
Display	Detecting method	Detecting method	Check points
d8 (d8)	Frequency drop by current protection	When the outdoor unit input current exceeds 22.5 A, the compressor operates at reduced frequency.	These symptoms do not mean any abnormality of the product, but check the following points. <ul style="list-style-type: none"> • Air filter clogging. • Amount of gas. • Short cycle of indoor/outdoor air flow.
d9 (d9)	Frequency drop by overload protection	When the compressor load exceeds the specified value, the compressor operates at reduced frequency.	
d7 (d7)	Frequency drop by high pressure protection	When indoor pipe temperature exceeds 55°C during heating, the compressor operates at reduced frequency.	
	Frequency drop by defrosting in cooling	When the indoor pipe temperature falls to 6°C or below during cooling, the compressor operates at reduced frequency.	
d6 (d6)	Frequency drop by discharge temperature protection	When the discharge temperature exceeds 110°C, the compressor operates at reduced frequency.	
d3 (d3)	Frequency drop by high pressure switch protection	When the high pressure exceeds 2.75MPa (28 kgf/cm ² -G), the compressor operates at reduced frequency. In addition, the fan speed changes.	<ul style="list-style-type: none"> • Amount of gas. • Outdoor unit air passage.
d1 (d1)	Low discharge temperature protection	When the state with low discharge temperature of which 50°C in COOL and 48.4 or less in HEAT for 20 minutes, the compressor operates continuously.	<ul style="list-style-type: none"> • Check the amount of gas. • Replace the outdoor controller board. • Check the contact of LEV board connectors.

Symptom	Outdoor unit operates.		
Display	Detecting method	Detecting method	Check points
E7 (E7)	Defrost thermistor abnormality	When a short or open circuit occurs in the defrost thermistor during heating * In this case, the compressor continues to operate.	<ul style="list-style-type: none"> • Defrost thermistor characteristic. • Contact of P. C. board connectors.
h4 (h4)	Power factor detection abnormality	When the compressor power factor cannot be detected * In this case, the compressor keeps running.	<ul style="list-style-type: none"> • Compressor wiring.