AIO® Vertical Stack (Gen 3)

Troubleshooting Manual



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1. VERTICAL STACK

1.1 General anomalies

1.1.1 Anomaly table

Code	Description
G1	The unit does not cool
G2	The unit does not heat
G3	Water leak
G4	Presence of condensation on the unit
G5	High noise level
G6	Faulty heating element
G7	Ice on the internal coil (summer)
G8	Ice on the external coil (winter)
G9	Ice on the condensate collection tray

1.1.2 Troubleshooting procedures

G1

Figure 1. G1 troubleshooting procedure video link

Anomaly: The unit does not cool

START

1. **Check that the unit is set to cooling mode with a setpoint lower than the room temperature. Is it set correctly?**
   Yes
   ▶ Proceed to the next check
   No
   ▶ Set the unit correctly
2. **Check that the filters are clean. Are they clean?**
   Yes
   ▶ Proceed to the next check
   No
   ▶ Clean filters
3. **Check that the airflow rate is correct. Does it fall within the nominal values?**
   Yes
   ▶ Proceed to the next check
   No
   ▶ Set the P1-P8 setting of the unit to ensure the correct airflow (see Airflow adjustment (P1-P8))
4. **Check that cold air is coming out from the internal side and warm air from the external side. Is this the case?**
   Yes
   ▶ Proceed to the next check
   No
   ▶ Replace the 4-way valve
5. **Check the compressor discharge temperature with a thermometer. It should be below 230°F (110°C) for R410A, or below 239°F (115°C) for R32. Does it fall within the compressor discharge temperature limits?**
   Yes
   ▶ Proceed to the next check
   No
   ▶ Have the refrigerant recharged
6. **Despite the checks performed, does the anomaly persist?**
   Yes
   ▶ Connect the supervisor and check the unit parameters (see Connection and verification with Supervisor)
   No
   ▶ Resolved
7. **Despite the checks performed, does the anomaly persist?**
   Yes
   ▶ Have the unit sizing checked
   No
   ▶ Resolved

END

G2

Figure 2. G2 troubleshooting procedure video link

Anomaly: The unit does not heat

START

1. **Check that the unit is set to heating mode with a setpoint higher than the room temperature. Is it set correctly?**
   Yes
   ▶ Proceed to the next check
   No
   ▶ Set the unit correctly
2. **Check that the filters are clean. Are they clean?**
   Yes
   ▶ Proceed to the next check
   No
   ▶ Clean filters
3. **Check that the airflow rate is correct. Does it fall within the nominal values?**
   Yes
   ▶ Proceed to the next check
   No
   ▶ Set the P1-P8 setting of the unit to ensure the correct airflow (see Airflow adjustment (P1-P8))
4. **Check that warm air is coming out from the internal side and cold air from the external side. Is this the case?**
   Yes
   ▶ Proceed to the next check
   No
   ▶ Replace the 4-way valve

5. **Check the compressor discharge temperature with a thermometer. It should be below 230°F (110°C) for R410A, or below 239°F (115°C) for R32. Does it fall within the compressor discharge temperature limits?**
   Yes
   ▶ Proceed to the next check
   No
   ▶ Have the refrigerant recharged
6. **Despite the checks performed, does the anomaly persist?**
   Yes
   ▶ Connect the supervisor and check the unit parameters (see Connection and verification with Supervisor)
   No
   ▶ Resolved
7. **Despite the checks performed, does the anomaly persist?**
   Yes
   ▶ Have the unit sizing checked
   No
   ▶ Resolved

END

G3

Figure 3. G3 troubleshooting procedure video link

Anomaly: Water leak

START

1. **Check that the system drain slopes from the unit towards the outlet. Does it slope towards the outlet?**
   Yes
   ▶ Proceed to the next check
   No
   ▶ Adjust the slope of the drain
2. **Check that the condensate collection trays are securely fixed. Are they securely fixed?**
   Yes
   ▶ Proceed to the next check
   No
   ▶ Secure the trays correctly
3. **Check that the connection pipes under the trays are properly secured to the tray fitting. Are they securely fastened?**
   Yes
   ▶ Proceed to the next check
   No
   ▶ Secure the pipes properly
4. **Check that the pipe from the internal coil tray flows into the external coil tray. Is it positioned correctly?**
   Yes
   ▶ Proceed to the next check
   No
   ▶ Position the pipe correctly
5. **Despite the checks performed, does the anomaly persist?**
   Yes
   ▶ Check the thermal insulation of the pipes in the compressor area
   No
   ▶ Resolved

END

G4

Figure 4. G4 troubleshooting procedure video link

Anomaly: Presence of condensation on the unit

START

1. **Check that the ductwork is properly insulated at the unit connections. Is it compliant?**
   Yes
   ▶ Proceed to the next check
   No
   ▶ Properly insulate the ductwork
2. **Check that the filters are clean. Are they clean?**
   Yes
   ▶ Proceed to the next check
   No
   ▶ Clean filters
3. **Check that the air duct is clear of obstructions. Is it clear?**
   Yes
   ▶ Proceed to the next check
   No
   ▶ Remove the obstructions
4. **Check that the fans are intact. Are they intact?**
   Yes
   ▶ Proceed to the next check
   No
   ▶ Replace the faulty fans
5. **Despite the checks performed, does the anomaly persist?**
   Yes
   ▶ Check the integrity of the unit's insulating parts
   No
   ▶ Resolved

END

G5

Figure 5. G5 troubleshooting procedure video link

Anomaly: High noise level

START

1. **Check that the fans are rotating correctly. Are they rotating correctly?**
   Yes
   ▶ Proceed to the next check
   No
   ▶ Remove any obstructions
2. **Check that the compressor and piping are not in contact with metallic parts of the unit. Are they compliant?**
   Yes
   ▶ Proceed to the next check
   No
   ▶ Reposition the compressor to separate the piping from the metallic parts in contact
3. **Despite the checks performed, does the anomaly persist?**
   Yes
   ▶ Set the P1-P8 setting of the unit to ensure the correct airflow (see Airflow adjustment (P1-P8))
   No
   ▶ Resolved

END

G6

Figure 6. G6 troubleshooting procedure video link

Anomaly: Faulty heating element

START

1. **Check on the display that the service setting for the electric heater function is correct. Is it correct?**
   Yes
   ▶ Proceed to the next check
   No
   ▶ Set the FH or RE function
2. **Check that the manual safety thermostat of the heating element is deactivated. Is it deactivated?**
   Yes
   ▶ Proceed to the next check
   No
   ▶ Deactivate the thermostat
3. **Check with a multimeter that there is a 230 V voltage on connector CN20. Is it measured correctly?**
   Yes
   ▶ Proceed to the next check
   No
   ▶ Replace the main board (see Replace the main board)
4. **Check with a multimeter that the heating element is powered correctly. Is it powered correctly?**
   Yes
   ▶ Proceed to the next check
   No
   ▶ Check that the heating element wires are connected correctly
5. **Check with a multimeter that there is a 220 V voltage and that the contact is closed on the power relay connectors of the heating element. Is this the case?**
   Yes
   ▶ Proceed to the next check
   No
   ▶ Replace the power relay of the heating element
6. **Despite the checks performed, does the error persist?**
   Yes
   ▶ Replace the heating element
   No
   ▶ Resolved

END

G7

Figure 7. G7 troubleshooting procedure video link

Anomaly: Ice on the internal coil (summer)

START

1. **Check that the IPT sensor of the internal coil is positioned correctly. Is it positioned correctly?**
   Yes
   ▶ Proceed to the next check
   No
   ▶ Properly position the sensor
2. **Check that the filters are clean. Are they clean?**
   Yes
   ▶ Proceed to the next check
   No
   ▶ Clean filters

3. **Check that the airflow rate is correct. Does it fall within the nominal values?**
   Yes
   ▶ Proceed to the next check
   No
   ▶ Set the P1-P8 setting of the unit to ensure the correct airflow (see Airflow adjustment (P1-P8))
4. **Check that the 4-way valve is functioning correctly. Is it functioning correctly?**
   Yes
   ▶ Proceed to the next check
   No
   ▶ Replace the 4-way valve
5. **Check with a multimeter that there is no voltage on connector CN2. Is this the case?**
   Yes
   ▶ Proceed to the next check
   No
   ▶ Replace the main board (see Replace the main board)
6. **Despite the checks performed, does the error persist?**
   Yes
   ▶ Check the presence of refrigerant
   No
   ▶ Resolved

END

G8

Figure 8. G8 troubleshooting procedure video link

Anomaly: Ice on the external coil (winter)

START

1. **Check that the filters are clean. Are they clean?**
   Yes
   ▶ Proceed to the next check
   No
   ▶ Clean filters
2. **Check that the airflow rate is below the maximum flow rate value. Is it compliant?**
   Yes
   ▶ Proceed to the next check
   No
   ▶ Set the P1-P8 setting of the unit to ensure the correct airflow (see Airflow adjustment (P1-P8))
3. **Check that the OPT sensor of the external coil is positioned correctly. Is it positioned correctly?**
   Yes
   ▶ Proceed to the next check
   No
   ▶ Properly position the sensor
4. **Check that the 4-way valve is functioning correctly. Is it functioning correctly?**
   Yes
   ▶ Proceed to the next check
   No
   ▶ Replace the 4-way valve
5. **Check that the CN2 connector is positioned correctly. Is it positioned correctly?**
   Yes
   ▶ Proceed to the next check
   No
   ▶ Position the CN2 connector correctly.
6. **Check with a multimeter that there is a 230 V voltage on connector CN2. Is it measured correctly?**
   Yes
   ▶ Proceed to the next check
   No
   ▶ Replace the main board (see Replace the main board)
7. **Despite the checks performed, does the error persist?**
   Yes
   ▶ Check the presence of refrigerant
   No
   ▶ Resolved

END

G9

Figure 9. G9 troubleshooting procedure video link

Anomaly: Ice on the condensate collection tray

START

1. **Check that the system drain slopes from the unit towards the outlet. Does it slope towards the outlet?**
   Yes
   ▶ Proceed to the next check
   No
   ▶ Adjust the slope of the drain
2. **Check that the CN1 connector is positioned correctly. Is it positioned correctly?**
   Yes
   ▶ Proceed to the next check
   No
   ▶ Position the CN1 connector correctly

3. **Check with a multimeter that there is a 230 V voltage on connector CN1, provided that the outdoor temperature is below 17.6°F (-8°C). Is this the case?**
   Yes
   ▶ Proceed to the next check
   No
   ▶ Replace the main board (see Replace the main board)
4. **Check that the connector of the condensate collection tray heating element is connected correctly. Is it connected correctly?**
   Yes
   ▶ Proceed to the next check
   No
   ▶ Correctly position the connector
5. **Despite the checks performed, does the error persist?**
   Yes
   ▶ Replace the condensate collection tray heating element
   No
   ▶ Resolved

END

1.2 Errors displayed on the screen

1.2.1 Error table

Code	Description	Blocking	Condition
E1	Temperature/Humidity Sensor Error	No	The input does not detect serial communication with the intervention sensor
E2	Internal Coil IPT Sensor Error	No	The input detects a resistance value (ohms) outside the expected range or a short circuit
E3	External Air Temperature Sensor Error (OT)	Yes	The input detects a resistance value (ohms) outside the expected range or a short circuit
E4	External Coil OPT Sensor Error	Yes	The input detects a resistance value (ohms) outside the expected range or a short circuit
E5	Internal fan error	Yes	The internal fan speed is outside the allowable range
E6	External Fan Error	Yes	The external fan speed is outside the allowable range
E7	Communication error with the display	Yes	No communication between the display and the electronic boards
E8	Compressor discharge sensor error	Yes	The input detects an ohm value out of range or a short circuit
oF	Water Level Error	Yes	Activation of the maximum level float in the condensate collection tray
bL	Display locked	No	Keyboard locked
cP	Open contact for presence detection (CP)	Yes	The unit operates only with the CP presence contact closed

1.2.2 Troubleshooting procedures

E1

Figure 10. E1 troubleshooting procedure video link

Problem: Temperature/humidity sensor error
Condition: The input does not detect serial communication with the intervention sensor
Blocking: No
Electronic board: Electronic boards
START

1. **Check the positioning of the CN21 connector on the main board. Is it positioned correctly?**
   Yes
   ▶ Proceed to the next check
   No
   ▶ Correctly position the connector
2. **Check the 5 V DC power supply on connector CN21. Is it correct?**
   Yes
   ▶ Proceed to the next check
   No
   ▶ Replace the main board (see Replace the main board)
3. **Despite the checks performed, does the error persist?**
   Yes
   ▶ Replace the sensor
   No
   ▶ Resolved

END

E2

Figure 11. E2 troubleshooting procedure video link

Problem: Internal Coil IPT Sensor Error

Condition: The input detects a resistance value (ohms) outside the expected range or a short circuit

Blocking: No

Electronic board: Electronic boards

Sensor resistance values: Resistance values of the probes

START

1. **Check the positioning of the CN7 connector on the main board. Is it positioned correctly?**
   Yes
   ▶ Proceed to the next check
   No
   ▶ Correctly position the connector
2. **Disconnect the sensor and check the resistance value of the sensor with a multimeter. Is it compliant with the specifications indicated for the sensor (see the specific chapter)?**
   Yes
   ▶ Proceed to the next check
   No
   ▶ Replace the sensor
3. **Despite the checks performed, does the error persist?**
   Yes
   ▶ Replace the main board (see Replace the main board)
   No
   ▶ Resolved

END

E3

Figure 12. E3 troubleshooting procedure video link

Problem: External Air Temperature Sensor Error (OT)

Condition: The input detects a resistance value (ohms) outside the expected range or a short circuit

Blocking: Yes

Electronic board: Electronic boards

Sensor resistance values: Resistance values of the probes

START

1. **Check the positioning of the CN17 connector on the main board. Is it positioned correctly?**
   Yes
   ▶ Proceed to the next check
   No
   ▶ Correctly position the connector
2. **Disconnect the sensor and check the resistance value of the sensor with a multimeter. Is it compliant with the specifications indicated for the sensor (see the specific chapter)?**
   Yes
   ▶ Proceed to the next check
   No
   ▶ Replace the sensor
3. **Despite the checks performed, does the error persist?**
   Yes
   ▶ Replace the main board (see Replace the main board)
   No
   ▶ Resolved

END

E4

Figure 13. E4 troubleshooting procedure video link

Problem: External Coil OPT Sensor Error

Condition: The input detects a resistance value (ohms) outside the expected range or a short circuit

Blocking: Yes

Electronic board: Electronic boards

Sensor resistance values: Resistance values of the probes

START

1. **Check the positioning of the CN17 connector on the main board. Is it positioned correctly?**
   Yes
   ▶ Proceed to the next check
   No
   ▶ Correctly position the connector
2. **Disconnect the sensor and check the resistance value of the sensor with a multimeter. Is it compliant with the specifications indicated for the sensor (see the specific chapter)?**
   Yes
   ▶ Proceed to the next check
   No
   ▶ Replace the sensor
3. **Despite the checks performed, does the error persist?**
   Yes
   ▶ Replace the main board (see Replace the main board)
   No
   ▶ Resolved

END

E5

Figure 14. E5 troubleshooting procedure video link

Problem: Internal Fan Error

Condition: The internal fan speed is outside the allowable range

Blocking: Yes

Electronic board: Electronic boards

START

1. **Check the positioning of the CN23 connector on the main board. Is it positioned correctly?**
   Yes
   ▶ Proceed to the next check
   No
   ▶ Correctly position the connector
2. **Check the 115 V AC or 230 V AC power on the power connector. Is it correct?**
   Yes
   ▶ Proceed to the next check
   No
   ▶ Replace the main board (see Replace the main board)
3. **Check the VSP 0-10 V DC signal on the CN23 connector. Is it correct?**
   Yes
   ▶ Proceed to the next check
   No
   ▶ Replace the main board (see Replace the main board)
4. **Despite the checks performed, does the error persist?**
   Yes
   ▶ Replace the faulty fan
   No
   ▶ Resolved

END

E6

Figure 15. E6 troubleshooting procedure video link

Problem: External Fan Error

Condition: The external fan speed is outside the allowable range

Blocking: Yes

Electronic board: Electronic boards

START

1. **Check the positioning of the CN9 connector on the main board. Is it positioned correctly?**
   Yes
   ▶ Proceed to the next check
   No
   ▶ Correctly position the connector
2. **Check the 115 V AC or 230 V AC power on the power connector. Is it correct?**
   Yes
   ▶ Proceed to the next check
   No
   ▶ Replace the main board (see Replace the main board)
3. **Check the VSP 0-10 V DC signal on the CN9 connector. Is it correct?**
   Yes
   ▶ Proceed to the next check
   No
   ▶ Replace the main board (see Replace the main board)
4. **Despite the checks performed, does the error persist?**
   Yes
   ▶ Replace the faulty fan
   No
   ▶ Resolved

END

E7

Figure 16. E7 troubleshooting procedure video link

Problem: Communication Error with Display

Condition: No communication between the display and the electronic boards

Blocking: Yes

Electronic board: Electronic boards

START

1. **Check the positioning of the CN11 connector on the main board. Is it positioned correctly?**
   Yes
   ▶ Proceed to the next check
   No
   ▶ Correctly position the connector
2. **Check that the COMP cable connects the main board to the power board. Is it positioned correctly?**
   Yes
   ▶ Proceed to the next check
   No
   ▶ Correctly position the connector
3. **Check that the COMP cable connects the power board to the driver board. Is it positioned correctly?**
   Yes
   ▶ Proceed to the next check
   No
   ▶ Correctly position the connector
4. **Check that the two red LEDs on the power board are lit. Are they lit?**
   Yes
   ▶ Proceed to the next check
   No
   ▶ Replace the power board (see Replace the power board)

5. **Check that the green LED on the driver board flashes every second. Does it flash every second?**
   Yes
   ▶ Proceed to the next check
   No
   ▶ Replace the driver board (see Replace the driver board)
6. **Check that the display cables are intact and show no signs of fraying or damage. Are they compliant?**
   Yes
   ▶ Proceed to the next check
   No
   ▶ Replace the damaged cables
7. **Despite the checks performed, does the error persist?**
   Yes
   ▶ Replace the main board (see Replace the main board)
   No
   ▶ Resolved

END

E8

Figure 17. E8 troubleshooting procedure video link

Problem: Compressor discharge sensor error

Condition: The input detects an ohm value out of range or a short circuit

Blocking: Yes

Electronic board: Electronic boards

START

1. **Check the positioning of the XP209 connector on the driver board. Is it positioned correctly?**
   Yes
   ▶ Proceed to the next check
   No
   ▶ Correctly position the connector
2. **Disconnect the sensor and check the resistance value of the sensor with a multimeter. Is it compliant with the specifications indicated for the sensor (see the specific chapter)?**
   Yes
   ▶ Proceed to the next check
   No
   ▶ Replace the sensor
3. **Despite the checks performed, does the error persist?**
   Yes
   ▶ Replace the driver board (see Replace the driver board)
   No
   ▶ Resolved

END

oF

Figure 18. oF troubleshooting procedure video link

Problem: Water Level Error

Condition: Activation of the maximum level float in the condensate collection tray

Blocking: Yes

Electronic board: Electronic boards

START

1. **Check that the water level in the external condensate collection tray is correct. Is it correct?**
   Yes
   ▶ Proceed to the next check
   No
   ▶ Check the drain tube
2. **Check the positioning of the CN15 connector on the main board. Is it positioned correctly?**
   Yes
   ▶ Proceed to the next check
   No
   ▶ Correctly position the connector
3. **Check the operation of the float using a multimeter. Does the float respond correctly to continuity tests?**
   Yes
   ▶ Proceed to the next check
   No
   ▶ Replace the float
4. **Despite the checks performed, does the error persist?**
   Yes
   ▶ Replace the main board (see Replace the main board)
   No
   ▶ Resolved

END

bL

Figure 19. bL troubleshooting procedure video link

Problem: Display locked

Condition: Keyboard locked

Blocking: No

Electronic board: Electronic boards

START

1. **Check that the ⏲ button has been pressed for about 10 seconds on the display. Has it been pressed?**
   Yes
   ▶ Proceed to the next check
   No
   ▶ Press and hold the ⏲ button for about 10 seconds
2. **Despite the checks performed, does the error persist?**
   Yes
   ▶ Replace the display
   No
   ▶ Resolved

END

cP

Figure 20. cP troubleshooting procedure video link

Problem: CP presence contact open

Condition: The unit operates only with the CP presence contact closed

Blocking: Yes

Electronic board: Electronic boards

START

1. **Check the positioning of the CN13 connector on the main board. Is it positioned correctly?**
   Yes
   ▶ Proceed to the next check
   No
   ▶ Correctly position the connector
2. **Check with a multimeter that the circuit is closed. Is it closed?**
   Yes
   ▶ Replace the main board (see Replace the main board)
   No
   ▶ Proceed to the next check
3. **Check for the presence of a jumper on the terminal connected to connector CN13. Is it present?**
   Yes
   ▶ Proceed to the next check
   No
   ▶ Check the presence of the cables connected to connector CN13
4. **Does the issue persist despite the checks performed?**
   Yes
   ▶ Replace the main board (see Replace the main board)
   No
   ▶ Resolved

END

1.3 Driver board errors

The driver board shows errors with its green LED. The LED repeats this cycle:

1. 12 rapid flashes.
2. Six long or short flashes that make up the error code.
3. A 1-second pause before the cycle starts again.

Long flash (•): 1 second on, 0.5 seconds off

Short flash (∘): 0.25 seconds on, 0.5 seconds off

To identify the error, match the six flashes from step 2 to the LED Flashing Sequence column in the table below.

Code	LED Flashing Sequence	Error	QR Code	Procedure Video Link
1	●∘∘∘∘ ∘	Excessive DC voltage		Replace the driver board
2	∘●∘∘∘ ∘	Insufficient DC voltage		Replace the driver board
3	●●∘∘∘ ∘	Excessive phase current		Check the compressor
4	∘∘●∘∘ ∘	Loss of synchronization		Replace the driver board
5	●∘●∘∘	Phase loss (speed)		Check the compressor

Code	LED Flashing Sequence	Error	QR Code	Procedure Video Link
	○			
6	○●●○○ ○	Phase loss (current)		Check the compressor
7	●●●○○○	IPM_FO - signal error (narrow)		Replace the driver board
8	○○○●○ ○	IPM_FO - signal error (wide)		Replace the driver board
12	○○●●○ ○	PFC - incorrect current/incorrect power		Check the voltage
				Check the compressor
				Replace the driver board
15	●●●●○○	AD error		Replace the driver board
18	○●○○● ○	Temperature sensor failure		Check the refrigerant
19	●●○○●○	Excessive compressor temperature		Replace the driver board
20	○○●○● ○	Abnormal compressor casing temperature		Check the refrigerant

Code	LED Flashing Sequence	Error	QR Code	Procedure Video Link
21	●○●○●○	Phase current disturbance		Replace the driver board
22	○●●○●○	Communication error		Check the cables
				Replace the driver board
23	●●●○●○	EEprom error		Replace the driver board
26	○●○●●○	IPM overheating error		Replace the driver board
27	●●○●●○	Excessive AC current		Replace the driver board

1.4 Additional procedures

1.4.1 Replace the main board

Link to the procedure video

Figure 21. Main board replacement procedure video link

1.4.2 Replace the power board

Link to the procedure video

Figure 22. Power board replacement procedure video link

1.4.3 Replace the driver board

Link to the procedure video

Figure 23. Driver board replacement procedure video link

1.4.4 Install the Rolbit board outside the unit

Link to the procedure video

Figure 24. Rolbit board installation procedure video link

1.4.5 Install the Rolbit board inside the unit, behind the electrical panel

Link to the procedure video

Figure 25. Rolbit board installation procedure video link

1.4.6 Install the Rolbit board inside the unit, in the electrical panel

Link to the procedure video

Figure 26. Rolbit board installation procedure video link

1.4.7 Airflow adjustment (P1-P8)

Link to the procedure video

Figure 27. Airflow adjustment procedure video link

1.4.8 Firmware and parameter loading

Link to the procedure video

Figure 28. Firmware and parameter loading procedure video link

1.4.9 Connection and verification with Supervisor

Link to the procedure video

Figure 29. Connection and verification with Supervisor procedure video link

1.4.10 Compressor replacement

Link to the procedure video

Figure 30. Compressor replacement procedure video link

1.4.11 Reconfiguration of the CN6 connector

Link to the procedure video

Figure 31. Reconfiguration of the CN6 connector procedure video link

1.5 Maintenance operations

1.5.1 General cleaning of the unit

Link to the procedure video

Figure 32. General cleaning procedure video link

1.5.2 Cleaning or filter replacement

Link to the procedure video

Figure 33. Cleaning or filter replacement procedure video link

1.5.3 Cleaning or replacement of the coils

Link to the procedure video

Figure 34. Cleaning or battery replacement procedure video link

1.5.4 Cleaning or replacement of the condensate collection tray

Link to the procedure video

Figure 35. Cleaning or condensate collection tray replacement procedure video link

1.5.5 Refrigerant charge check

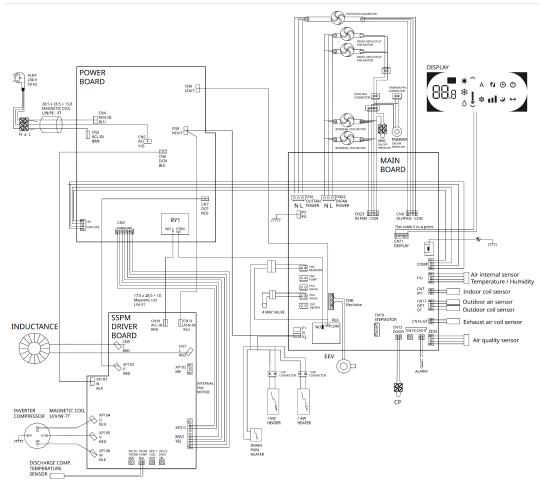
Link to the procedure video

Figure 36. Refrigerant charge check procedure video link

1.6 Technical information

1.6.1 Electronic boards

Figure 37. Electronic boards



CN13	Input	**CN1**	Heating element
CN14	Drain Pump Start Level	**CN2**	Valve
CN15	Drain Alarm	**CN5**	Heater
ZE	Internal Air Quality Sensor	**CN4**	Pump
HU	Internal Air Humidity and Temperature Sensors	**CN23**	Internal Fan
CN17 OT	External Temperature Sensor	**CN9**	External Fan
CN17 OPT	Capacitor Sensor	**CN19**	Step Motor
CN7 IPT	Evaporator Sensor	**CN10**	Step Motor
CN16 GT	Exhaust Air Sensor	**CN11**	Display
XP209	Compressor Drain Temperature Sensor		

1.6.2 Resistance values of the probes

OT, OPT, and IPT sensors: 15 kΩ @ 32°F (0°C)

Sensor 15 kΩ 3450

T °F (°C)	Rmin	Rcent	Rmax	DR(%)	DT(°C)
-22 (-30)	63.96	67.94	70.85	4.28	0.95
-20.2 (-29)	60.58	64.25	66.95	4.20	0.94
-18.4 (-28)	57.40	60.79	63.29	4.11	0.93
-16.6 (-27)	54.40	57.53	59.85	4.03	0.91
-14.8 (-26)	51.59	54.48	56.62	3.93	0.90
-13 (-25)	48.94	51.60	53.59	3.86	0.88
-11.2 (-24)	46.44	48.90	50.75	3.78	0.87
-9.4 (-23)	44.09	46.35	48.07	3.71	0.85
-7.6 (-22)	41.87	43.96	45.55	3.62	0.83
-5.8 (-21)	39.78	41.70	43.18	3.55	0.82
-4 (-20)	37.80	39.58	40.95	3.46	0.80
-2.2 (-19)	35.94	37.54	38.85	3.49	0.79
-0.4 (-18)	34.18	35.69	36.87	3.31	0.78
1.4 (-17)	32.52	33.91	35.01	3.24	0.76
3.2 (-16)	30.96	32.23	33.25	3.16	0.74
5 (-15)	29.47	30.65	31.59	3.07	0.73
6.8 (-14)	28.07	29.15	30.03	3.02	0.71
8.6 (-13)	26.75	27.74	28.55	2.92	0.69
10.4 (-12)	25.49	26.40	27.15	2.84	0.67
12.2 (-11)	24.30	25.14	25.84	2.78	0.66
14 (-10)	23.18	23.95	24.59	2.67	0.64
15.8 (-9)	22.12	22.82	23.42	2.63	0.62
17.6 (-8)	21.11	21.75	22.31	2.57	0.61
19.4 (-7)	20.15	20.74	21.26	2.51	0.60

T °F (°C)	Rmin	Rcent	Rmax	DR(%)	DT(℃)
21.2 (-6)	19.25	19.79	20.26	2.37	0.57
23 (-5)	18.39	18.88	19.32	2.33	0.55
24.8 (-4)	17.57	18.02	18.43	2.28	0.54
26.6 (-3)	16.80	17.20	17.58	2.21	0.52
28.4 (-2)	16.06	16.43	16.78	2.13	0.50
30.2 (-1)	15.36	15.70	16.02	2.04	0.49
32 (0)	14.70	15.00	15.30	2.00	0.46
33.8 (1)	14.04	14.34	14.64	2.09	0.49
35.6 (2)	13.42	13.71	14.02	2.26	0.51
37.4 (3)	12.83	13.11	13.42	2.36	0.53
39.2 (4)	12.27	12.55	12.86	2.47	0.56
41 (5)	11.73	12.01	12.32	2.58	0.59
42.8 (6)	11.22	11.50	11.81	2.70	0.62
44.6 (7)	10.74	11.01	11.32	2.82	0.64
46.4 (8)	10.28	10.55	10.86	2.94	0.67
48.2 (9)	9.85	10.10	10.41	3.07	0.37
50 (10)	9.43	9.68	9.99	3.18	0.32
51.8 (11)	9.04	9.28	9.59	3.30	0.74
53.6 (12)	8.66	8.90	9.21	3.40	0.77
55.4 (13)	8.30	8.54	8.84	3.51	0.80
57.2 (14)	7.96	8.19	8.49	3.62	0.82
59 (15)	7.63	7.86	8.16	3.74	0.85
60.8 (16)	7.33	7.55	7.84	3.85	0.88
62.6 (17)	7.03	7.25	7.54	3.96	0.90
64.4 (18)	6.75	6.96	7.25	4.08	0.93
66.2 (19)	6.48	6.69	6.97	4.19	0.96
68 (20)	6.22	6.43	6.70	4.29	0.99

T °F (°C)	Rmin	Rcent	Rmax	DR(%)	DT(℃)
69.8 (21)	5.98	6.18	6.45	4.40	1.02
71.6 (22)	5.74	5.94	6.21	4.51	1.04
73.4 (23)	5.52	5.71	5.97	4.60	1.07
75.2 (24)	5.31	5.49	5.75	4.71	1.10
77 (25)	5.10	5.29	5.54	4.82	1.12
78.8 (26)	4.91	5.09	5.34	4.94	1.15
80.6 (27)	4.72	4.90	5.14	5.02	1.18
82.4 (28)	4.54	4.71	4.96	5.13	1.21
84.2 (29)	4.37	4.54	4.78	5.24	1.24
86 (30)	4.21	4.37	4.61	5.35	1.27
87.8 (31)	4.05	4.21	4.44	5.44	1.30
89.6 (32)	3.90	4.06	4.28	5.54	1.33
91.4 (33)	3.76	3.91	4.13	5.65	1.36
93.2 (34)	3.62	3.77	3.99	5.73	1.39
95 (35)	3.49	3.64	3.85	5.83	1.41
96.8 (36)	3.37	3.51	3.72	5.93	1.45
98.6 (37)	3.25	3.38	3.59	6.03	1.47
100.4 (38)	3.13	3.27	3.46	6.13	1.50
102.2 (39)	3.02	3.15	3.35	6.22	1.53
104 (40)	2.91	3.04	3.23	6.35	1.56
105.8 (41)	2.81	2.94	3.13	6.44	1.59
107.6 (42)	2.71	2.83	3.02	6.53	1.63
109.4 (43)	2.62	2.74	2.92	6.61	1.67
111.2 (44)	2.53	2.65	2.82	6.69	1.68
113 (45)	2.44	2.56	2.73	6.81	1.72
114.8 (46)	2.36	2.47	2.64	6.88	1.76
116.6 (47)	2.28	2.39	2.56	6.99	1.78

T °F (°C)	Rmin	Rcent	Rmax	DR(%)	DT(℃)
118.4 (48)	2.20	2.31	2.47	7.06	1.82
120.2 (49)	2.13	2.23	2.39	7.17	1.13
122 (50)	2.06	2.16	2.32	7.27	0.72
123.8 (51)	1.99	2.09	2.24	7.32	1.91
125.6 (52)	1.92	2.02	2.17	7.42	1.94
127.4 (53)	1.86	1.96	2.10	7.52	1.98
129.2 (54)	1.80	1.89	2.04	7.61	1.99
131 (55)	1.74	1.83	1.97	7.75	2.04
132.8 (56)	1.69	1.77	1.91	7.84	2.08
134.6 (57)	1.63	1.72	1.85	7.92	2.11
136.4 (58)	1.58	1.66	1.80	7.99	2.14
138.2 (59)	1.53	1.61	1.74	8.06	2.17
140 (60)	1.48	1.56	1.69	8.13	2.19
141.8 (61)	1.44	1.51	1.64	8.26	2.23
143.6 (62)	1.39	1.47	1.59	8.32	2.28
145.4 (63)	1.35	1.42	1.54	8.44	2.32
147.2 (64)	1.31	1.38	1.50	8.48	2.34
149 (65)	1.27	1.34	1.45	8.60	2.37
150.8 (66)	1.23	1.30	1.41	8.64	2.41
152.6 (67)	1.19	1.26	1.37	8.74	2.42
154.4 (68)	1.15	1.22	1.33	8.85	2.45
156.2 (69)	1.12	1.18	1.29	8.95	2.52
158 (70)	1.09	1.15	1.25	9.05	2.56
159.8 (71)	1.05	1.12	1.22	9.05	2.61
161.6 (72)	1.02	1.08	1.18	9.14	2.58
163.4 (73)	0.99	1.05	1.15	9.32	2.64
165.2 (74)	0.96	1.02	1.12	9.30	2.69

T °F (°C)	Rmin	Rcent	Rmax	DR(%)	DT(℃)
167 (75)	0.93	0.99	1.08	9.44	2.71
168.8 (76)	0.91	0.96	1.05	9.45	2.74
170.6 (77)	0.88	0.94	1.02	9.58	2.77
172.4 (78)	0.86	0.91	1.00	9.66	2.81
174.2 (79)	0.83	0.88	0.97	9.74	2.85
176 (80)	0.81	0.86	0.94	9.81	2.88
177.8 (81)	0.78	0.83	0.92	9.89	2.92
179.6 (82)	0.76	0.81	0.89	9.96	2.95
181.4 (83)	0.74	0.79	0.87	10.03	2.99
183.2 (84)	0.72	0.77	0.84	10.12	3.02
185 (85)	0.70	0.75	0.82	10.19	3.05
186.8 (86)	0.68	0.72	0.80	10.28	3.09
188.6 (87)	0.66	0.71	0.78	10.35	1.98
190.4 (88)	0.64	0.69	0.76	10.42	1.15
192.2 (89)	0.63	0.67	0.74	10.50	3.20
194 (90)	0.61	0.65	0.72	10.58	3.24
195.8 (91)	0.59	0.63	0.70	10.66	3.30
197.6 (92)	0.58	0.62	0.68	10.72	3.33
199.4 (93)	0.56	0.60	0.66	10.81	3.36
201.2 (94)	0.55	0.58	0.65	10.86	3.40
203 (95)	0.53	0.57	0.63	10.94	3.43
204.8 (96)	0.52	0.55	0.61	11.00	3.47
206.6 (97)	0.50	0.54	0.60	11.07	3.49
208.4 (98)	0.49	0.53	0.58	11.16	3.52
210.2 (99)	0.48	0.51	0.57	11.24	3.56
212 (100)	0.47	0.50	0.55	11.30	3.59
213.8 (101)	0.45	0.49	0.54	11.37	3.63

T °F (°C)	Rmin	Rcent	Rmax	DR(%)	DT(℃)
215.6 (102)	0.44	0.47	0.53	11.44	3.66
217.4 (103)	0.43	0.46	0.51	11.52	3.68
219.2 (104)	0.42	0.45	0.50	11.60	3.71
221 (105)	0.41	0.44	0.49	11.67	3.77
222.8 (106)	0.40	0.43	0.48	11.72	3.80
224.6 (107)	0.39	0.42	0.47	11.78	3.80
226.4 (108)	0.38	0.41	0.45	11.86	3.84
228.2 (109)	0.37	0.40	0.44	11.94	3.87
230 (110)	0.36	0.39	0.43	12.01	2.49

Compressor discharge sensor: 187 kΩ @ 32°F (0°C)

Sensor 187 kΩ 3979

T °F (°C)	Rmin	Rcent	Rmax	DR(%)	DT(℃)
-22 (-30)	891.20	966.10	1047.00	8.37	1.42
-20.2 (-29)	840.30	910.30	985.40	8.25	1.41
-18.4 (-28)	792.60	858.00	928.20	8.18	1.41
-16.6 (-27)	747.80	809.00	874.70	8.12	1.40
-14.8 (-26)	705.80	763.10	824.50	8.05	1.40
-13 (-25)	666.40	720.00	777.50	7.99	1.40
-11.2 (-24)	629.40	679.60	733.40	7.92	1.39
-9.4 (-23)	594.60	641.70	692.10	7.85	1.39
-7.6 (-22)	562.00	606.10	653.30	7.79	1.39
-5.8 (-21)	531.30	572.70	616.90	7.72	1.39
-4 (-20)	502.50	541.30	582.70	7.65	1.38
-2.2 (-19)	475.40	511.70	550.60	7.60	1.38
-0.4 (-18)	449.90	484.00	520.40	7.52	1.38
1.4 (-17)	425.90	457.90	492.00	7.45	1.37

T °F (°C)	Rmin	Rcent	Rmax	DR(%)	DT(℃)
3.2 (-16)	403.20	433.30	465.40	7.41	1.37
5 (-15)	382.00	410.20	440.30	7.34	1.37
6.8 (-14)	361.90	388.50	416.70	7.26	1.36
8.6 (-13)	343.00	368.00	394.50	7.20	1.36
10.4 (-12)	325.20	348.70	373.60	7.14	1.36
12.2 (-11)	308.40	330.50	353.90	7.08	1.35
14 (-10)	292.60	313.40	335.40	7.02	1.35
15.8 (-9)	277.60	297.20	317.90	6.97	1.34
17.6 (-8)	263.50	281.90	301.40	6.92	1.34
19.4 (-7)	250.20	267.50	285.80	6.84	1.34
21.2 (-6)	237.60	253.90	271.20	6.81	1.34
23 (-5)	225.80	241.10	257.40	6.76	1.33
24.8 (-4)	214.50	229.00	244.30	6.68	1.33
26.6 (-3)	203.90	217.60	232.00	6.62	1.33
28.4 (-2)	193.90	206.80	220.40	6.58	1.33
30.2 (-1)	184.40	196.60	209.40	6.51	1.32
32 (0)	175.50	186.90	199.00	6.47	1.31
33.8 (1)	167.00	177.80	189.20	6.41	1.32
35.6 (2)	159.00	169.20	179.90	6.32	1.31
37.4 (3)	151.40	161.00	171.10	6.27	1.30
39.2 (4)	144.20	153.30	162.90	6.26	1.31
41 (5)	137.40	146.00	155.00	6.16	1.29
42.8 (6)	130.90	139.00	147.60	6.19	1.30
44.6 (7)	124.80	132.50	140.50	6.04	1.30
46.4 (8)	119.00	126.30	133.90	6.02	1.29
48.2 (9)	113.50	120.40	127.60	5.98	1.29
50 (10)	108.30	114.80	121.60	5.92	1.28

T °F (°C)	Rmin	Rcent	Rmax	DR(%)	DT(℃)
51.8 (11)	103.30	109.50	115.90	5.84	0.61
53.6 (12)	98.63	104.40	110.50	5.84	1.27
55.4 (13)	94.16	99.66	105.40	5.76	1.27
57.2 (14)	89.92	95.13	100.60	5.75	1.27
59 (15)	85.89	90.82	95.98	5.68	1.26
60.8 (16)	82.06	86.74	91.62	5.63	1.26
62.6 (17)	78.43	82.85	87.47	5.58	1.25
64.4 (18)	74.97	79.16	83.54	5.53	1.25
66.2 (19)	71.68	75.65	79.80	5.49	1.25
68 (20)	68.55	72.32	76.25	5.43	1.24
69.8 (21)	65.57	69.15	72.88	5.39	1.24
71.6 (22)	62.74	66.13	69.67	5.35	1.24
73.4 (23)	60.05	63.27	66.61	5.28	1.23
75.2 (24)	57.48	60.54	63.71	5.24	1.23
77 (25)	55.04	57.94	60.95	5.20	1.22
78.8 (26)	52.71	55.46	58.32	5.16	1.22
80.6 (27)	50.49	53.11	55.82	5.10	1.22
82.4 (28)	48.38	50.86	53.44	5.07	1.21
84.2 (29)	46.36	48.72	51.17	5.03	1.21
86 (30)	44.44	46.68	49.01	4.99	1.21
87.8 (31)	42.61	44.74	46.95	4.94	1.20
89.6 (32)	40.87	42.89	44.99	4.90	1.20
91.4 (33)	39.20	41.13	43.12	4.84	1.19
93.2 (34)	37.61	39.44	41.34	4.82	1.19
95 (35)	36.10	37.84	39.64	4.76	1.18
96.8 (36)	34.65	36.30	38.02	4.74	1.18
98.6 (37)	33.26	34.84	36.47	4.68	1.18

T °F (°C)	Rmin	Rcent	Rmax	DR(%)	DT(℃)
100.4 (38)	31.94	33.44	34.99	4.64	1.17
102.2 (39)	30.68	32.11	33.58	4.58	1.17
104 (40)	29.47	30.83	32.24	4.57	1.16
105.8 (41)	28.32	29.61	30.95	4.53	1.16
107.6 (42)	27.22	28.45	29.72	4.46	1.16
109.4 (43)	26.16	27.34	28.55	4.43	1.15
111.2 (44)	25.15	26.27	27.43	4.42	1.15
113 (45)	24.19	25.25	26.35	4.36	1.14
114.8 (46)	23.26	24.28	25.33	4.32	1.14
116.6 (47)	22.38	23.35	24.35	4.28	1.14
118.4 (48)	21.53	22.46	23.41	4.23	1.13
120.2 (49)	20.72	21.60	22.51	4.21	1.13
122 (50)	19.95	20.79	21.65	4.14	1.12
123.8 (51)	19.20	20.01	20.83	4.10	0.57
125.6 (52)	18.49	19.26	20.04	4.05	0.54
127.4 (53)	17.81	18.54	19.29	4.05	1.10
129.2 (54)	17.15	17.85	18.57	4.03	1.10
131 (55)	16.53	17.19	17.87	3.96	1.09
132.8 (56)	15.93	16.56	17.21	3.93	1.09
134.6 (57)	15.35	15.96	16.58	3.88	1.09
136.4 (58)	14.80	15.38	15.97	3.84	1.08
138.2 (59)	14.27	14.82	15.39	3.85	1.08
140 (60)	13.76	14.29	14.83	3.78	1.08
141.8 (61)	13.27	13.78	14.29	3.70	1.06
143.6 (62)	12.80	13.28	13.78	3.77	1.06
145.4 (63)	12.35	12.81	13.28	3.67	1.06
147.2 (64)	11.92	12.36	12.81	3.64	1.06

T °F (°C)	Rmin	Rcent	Rmax	DR(%)	DT(℃)
149 (65)	11.51	11.93	12.36	3.60	1.05
150.8 (66)	11.11	11.51	11.92	3.56	1.04
152.6 (67)	10.72	11.11	11.50	3.51	1.05
154.4 (68)	10.36	10.73	11.10	3.45	1.04
156.2 (69)	10.00	10.36	10.71	3.38	1.02
158 (70)	9.66	10.00	10.34	3.40	1.02
159.8 (71)	9.34	9.66	9.99	3.40	1.02
161.6 (72)	9.02	9.33	9.64	3.37	1.02
163.4 (73)	8.72	9.02	9.32	3.33	1.01
165.2 (74)	8.43	8.71	9.00	3.31	1.01
167 (75)	8.15	8.42	8.60	2.07	1.01
168.8 (76)	7.88	8.14	8.40	3.23	1.00
170.6 (77)	7.62	7.87	8.12	3.20	0.99
172.4 (78)	7.37	7.61	7.85	3.17	0.99
174.2 (79)	7.13	7.36	7.59	3.13	0.98
176 (80)	6.90	7.12	7.34	3.09	0.97
177.8 (81)	6.68	6.88	7.10	3.08	0.97
179.6 (82)	6.46	6.66	6.86	3.03	0.96
181.4 (83)	6.25	6.45	6.64	3.01	0.96
183.2 (84)	6.05	6.24	6.42	2.98	0.95
185 (85)	5.86	6.04	6.22	2.95	0.95
186.8 (86)	5.68	5.85	6.02	2.93	0.94
188.6 (87)	5.50	5.66	5.82	2.88	0.94
190.4 (88)	5.33	5.48	5.64	2.85	0.93
192.2 (89)	5.16	5.31	5.46	2.83	0.93
194 (90)	5.00	5.14	5.29	2.78	0.93
195.8 (91)	4.84	4.98	5.12	2.77	0.46

T °F (°C)	Rmin	Rcent	Rmax	DR(%)	DT(℃)
197.6 (92)	4.70	4.83	4.96	2.73	0.45
199.4 (93)	4.55	4.68	4.80	2.71	0.91
201.2 (94)	4.41	4.53	4.66	2.67	0.90
203 (95)	4.28	4.39	4.51	2.64	0.89
204.8 (96)	4.15	4.26	4.37	2.63	0.89
206.6 (97)	4.03	4.13	4.24	2.59	0.88
208.4 (98)	3.90	4.01	4.11	2.55	0.87
210.2 (99)	3.79	3.89	3.98	2.55	0.87
212 (100)	3.68	3.77	3.86	2.49	0.87
213.8 (101)	3.56	3.66	3.75	2.52	0.88
215.6 (102)	3.46	3.55	3.64	2.56	0.89
217.4 (103)	3.35	3.44	3.53	2.58	0.91
219.2 (104)	3.26	3.34	3.43	2.60	0.92
221 (105)	3.16	3.25	3.33	2.62	0.93
222.8 (106)	3.07	3.15	3.23	2.67	0.95
224.6 (107)	2.98	3.06	3.14	2.68	0.96
226.4 (108)	2.89	2.97	3.05	2.73	0.97
228.2 (109)	2.81	2.88	2.96	2.77	0.99
230 (110)	2.72	2.80	2.88	2.75	1.00
231.8 (111)	2.65	2.72	2.80	2.83	1.01
233.6 (112)	2.57	2.64	2.72	2.84	1.04
235.4 (113)	2.50	2.57	2.64	2.84	1.04
237.2 (114)	2.42	2.50	2.57	2.88	1.05
239 (115)	2.36	2.43	2.50	2.93	1.07
240.8 (116)	2.29	2.36	2.43	2.93	1.08
242.6 (117)	2.23	2.29	2.36	2.97	1.09
244.4 (118)	2.16	2.23	2.29	3.01	1.12

T °F (°C)	Rmin	Rcent	Rmax	DR(%)	DT(℃)
246.2 (119)	2.10	2.17	2.23	3.00	1.13
248 (120)	2.04	2.11	2.17	3.04	1.13
249.8 (121)	1.99	2.05	2.11	3.07	1.16
251.6 (122)	1.93	1.99	2.06	3.06	1.16
253.4 (123)	1.88	1.94	2.00	3.15	1.18
255.2 (124)	1.83	1.89	1.95	3.13	1.20
257 (125)	1.78	1.84	1.89	3.16	1.21
258.8 (126)	1.73	1.79	1.84	3.19	1.22
260.6 (127)	1.68	1.74	1.79	3.22	1.24
262.4 (128)	1.64	1.69	1.75	3.25	1.27
264.2 (129)	1.60	1.65	1.70	3.27	1.28
266 (130)	1.55	1.60	1.66	3.30	1.29

With over 20 years of experience in the climate comfort sector, we have a clear goal: growth through innovation. Our team is laser-focused on the conception, development, and production of innovative heating, ventilation, and air conditioning solutions. This mission has developed through bringing together technical skills, creativity, technology, design, Italian passion, and a global vision to achieve the best energy efficiency and performance.

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AIO® Vertical Stack **Troubleshooting Manual**