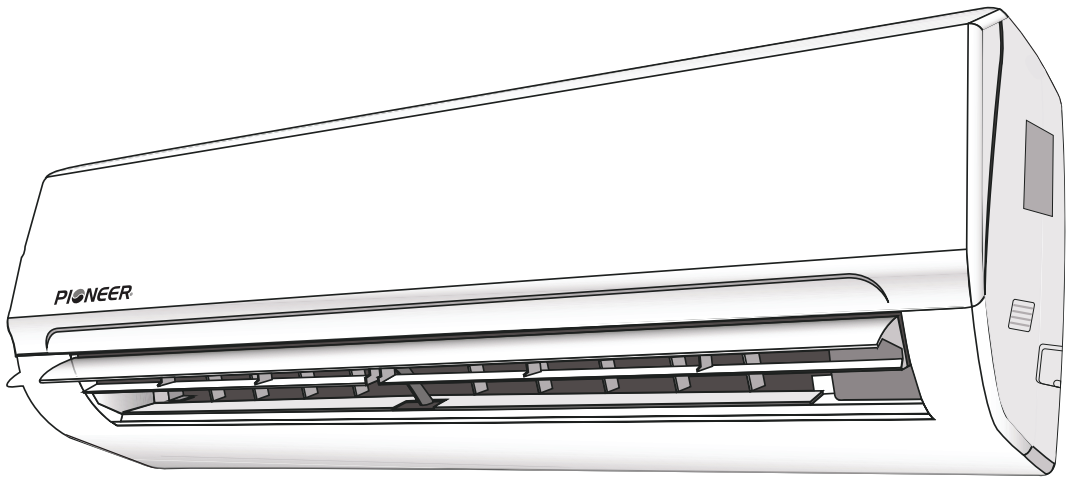
DUCTLESS MINI SPLIT SYSTEM AIR CONDITIONER / HEAT PUMP

PIONEER®

WYT-17 Inverter Series

For 11,500-35,000 BTU/hr Systems

Diamante Essenza (R-32) - WT Indoor and YN Outdoor



Service Manual

IMPORTANT NOTICE:
Be sure to save this manual for future reference.

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Important Notice

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This service manual is intended for individuals with adequate electrical, electronic, and mechanical experience. Any attempt to repair the appliance may result in personal injury and property damage. The manufacturer or seller is not responsible for the interpretation of this information, nor does it assume any liability in connection with its use.

Information, specifications, and parameters are subject to change without prior notice due to technical modifications or improvements. Actual specifications are provided on the product nameplate label.

How to Order Spare Parts

To ensure your order is accurate, provide the following information:

1. Model numbers of the indoor and outdoor units.
2. Item number in the exploded diagram.
3. Part number.
4. Required quantity.

Maintenance Notes

2

Carefully read all safety precautions before maintenance. The following information is essential for safe and proper execution.

- Follow all instructions and correct procedures during maintenance to eliminate risks of electrical shock, injury, and equipment accidents.
- Ensure all electrical work is performed by a licensed technician in compliance with national and local electrical codes.
- Ensure an authorized distributor or qualified professional perform all maintenance.
- Observe all warnings and cautions throughout this manual.
- Test the area with a flammable gas detector before unloading and opening the container.
- Keep the area free of open flames and smoking materials.

A. Electrical Safety Precautions

Electrical & Power Supply Requirements

- Connect the air conditioner to a dedicated circuit; do not share the circuit with other appliances.
- Install an appropriate circuit breaker (such as a GFCI/RCD) if the indoor unit is located in a humid or damp environment.
- For hardwired systems (without a plug), install a circuit breaker that features all-pole disconnection and a minimum contact separation of 0.1 inches (3 mm).

Wiring Safeguards

- Ensure all wiring terminals are securely connected during maintenance.
- Properly match the live, neutral, and grounding wires from the power supply to the corresponding air conditioner terminals.
- Adequately ground the unit; the grounding wire must not be used for any other purpose.
- Ensure the power cord and connection wires are not crushed, pinched, or compressed by surrounding components or hard objects.
- Install protective accessories, including protective boards, cable routing loops, and clips to safeguard the wiring.

Maintenance Notes

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Maintenance & Component Replacement

- Turn off the air conditioner's power supply prior to checking the unit or performing maintenance.
- Use only the supplied or specified components during installation to ensure proper system performance.
- If the power cord or connection wire is damaged, it must be replaced by a qualified technician.
- If the power cord length is insufficient, obtain an approved replacement from the manufacturer or distributor; do not splice or extend the wire yourself.
- If a fuse is blown, replace it with a new fuse of the exact same specification; do not use copper wires or jumper wires as a substitute.
- Handle the unit with care during transport; a team lift is required if the unit weighs more than 44 lbs (20 kg).
- Wear a safety harness at all times if the working height exceeds 7 feet (2 m).
- Ensure no foreign objects remain inside the unit upon completion of installation; debris can cause electrical shock, fire, explosion, or personal injury.

Pre-Start & Commissioning Checks

- Confirm all wiring and piping connections are secure and all valves are open prior to energizing the system.
- Test the unit body for electrical leakage; resolve any faults before allowing the system to operate.

B. Fire Safety Precautions

Warning: Risk of fire due to the flammable refrigerant used

- Review all safety precautions in this manual before attempting any product service or repair.
- Handle the equipment carefully in strict compliance with all national regulations.
- Ensure only trained service personnel perform system repairs.
- Avoid puncturing the refrigerant tubing during maintenance.
- Dispose of all materials properly in accordance with national, state, and local regulations.

Maintenance Notes

2

C. Relocation Safety Precautions

- Avoid relocation areas where corrosive or flammable gases may leak, as accumulated gas can lead to explosions or other accidents.
- Do not use extension cords or multi-outlet adapters; if the power cord is of insufficient length, contact an authorized service center for an approved replacement to prevent electrical shock or fire hazards.
- Securely clamp all interconnecting wiring between indoor and outdoor units to eliminate external stress on the terminals. Using non-specified wires or insecure connections poses a severe electrical shock or fire hazard.
- Securely attach the connecting pipe before operating the compressor; running the compressor with open valves and disconnected piping will draw in air, causing dangerous pressure spikes, compressor overheating, or gas leaks.
- Charge the unit only with the specific refrigerant listed on the nameplate during installation or relocation; using unapproved or non-specified refrigerants can cause operational failures, mechanical malfunctions, or severe safety hazards.
- When recovering refrigerant (pump down) during relocation or repair:
    - Confirm the indoor unit is running in Cooling mode.
    - Fully close the liquid-side valve (2-way valve).
    - Wait 30 to 40 seconds, then fully close the gas-side valve (3-way valve).
    - Immediately stop the unit and disconnect the power supply.
    - CAUTION: The entire refrigerant recovery process must not exceed 1 minute. Running the process too long will cause the compressor to overheat, risking equipment failure or personal injury.
- Purge the refrigerant circuit during relocation to ensure it is completely free of air and moisture; foreign substances will cause abnormal pressure spikes or compressor failure, resulting in personal injury.
- Ensure both the liquid-side and gas-side valves are fully closed and the power is disconnected before detaching the connecting pipe; disconnecting the pipe while valves are open allows the compressor to suck in air, causing abnormal pressure, compressor overheating, or gas leaks.

R-32 Refrigerant Notes

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A. Introduction

This air conditioner uses R-32, an environmentally friendly hydrofluorocarbon (HFC) refrigerant. Compared to conventional refrigerants, R-32 does not deplete the ozone layer and has a lower global warming potential (GWP). Note that R-32 is odorless and mildly flammable, and may pose a risk of fire or explosion under certain conditions.

B. Precautions

General Compliance & Servicing

- Ensure all maintenance is performed exclusively by authorized professionals in strict compliance with the manufacturer's operating manual.
- Contact the nearest authorized service center to arrange professional servicing.
- Comply with all national gas safety laws and regulations.

Flammable Refrigerant Handling & Worksite Safety

- Conduct a safety inspection prior to servicing any system using combustible refrigerants to minimize fire risks.
- Recover all refrigerant from the system prior to performing maintenance or decommissioning the air conditioner.
- Handle flammable refrigerants with extreme care to eliminate the risk of severe injuries and equipment damage.
- Eliminate all ignition sources and high-temperature hazards from the work area.
- Keep surrounding surfaces and equipment below 1,018°F (548°C) when handling R-32 refrigerant.
- Wear appropriate anti-static clothing and gloves when installing systems with R-32 refrigerant.

R-32 Refrigerant Notes

3

C. Special Tools

Tool Name	Requirement(s) for Use
Mini Vacuum Pump	An explosion-proof vacuum pump that ensures high precision. Its vacuum degree must be below 10 Pa.
Filling Device	A special explosion-proof filling device that ensures precision. Its filling deviation must be below 5g.
Leak Detector	A detector that it is calibrated regularly. Its annual leak rate should not exceed 10g.
Concentration Detector	• Equip the maintenance site with a fixed combustible refrigerant concentration detector. Connect this detector to a safeguard alarm system. Its error must not exceed ±5%. • Equip the installation site with a portable combustible refrigerant concentration detector that features a two-level audible and visual alarm. Its error must not exceed ±10%. • Ensure that the concentration detectors are calibrated regularly. Check and confirm their functionality before each use.
Pressure Gauge	Ensure that the pressure gauges are calibrated regularly. Confirm that the pressure gauges are compatible with R-32 refrigerant.
Fire Extinguisher	Carry fire extinguishers during installation and maintenance. Ensure that the maintenance site is equipped with two or more types of fire extinguishers (dry powder, carbon dioxide, or foam). These extinguishers must have highly visible labels and be placed in designated locations.

R-32 Refrigerant Notes

3

D. Maintenance

Inspections for the Maintenance Environment

- Verify the room is free of refrigerant leaks prior to operation.
- Only operate the system in rooms that meet the area requirements specified on the nameplate.
- Ensure that the room is continuously ventilated.
- Do not permit open flames, welding, smoking, drying ovens, or any other ignition sources with temperatures exceeding 1,018°F (548°C) in the room.
- Ensure that mobile phones and all other electronic devices are turned off while in the room.
- Equip the maintenance area with a functional dry powder or carbon dioxide (CO_2) fire extinguisher.

Inspections for the Maintenance Equipment

- Confirm that the maintenance equipment is compatible with the refrigerant. Use only the professional equipment recommended by the air conditioner manufacturer.
- Verify that the refrigerant leak detector has been calibrated. Ensure its maximum alarm concentration does not exceed 25% of the lower explosion limit (LEL). The leak detector must remain operational during all maintenance procedures.

Inspections for the Air Conditioner

- Before performing maintenance, ensure the air conditioner is reliably grounded.
- Turn off the power and completely discharge the capacitor before beginning maintenance. If power is required during maintenance, continuously perform leak detection at the highest-risk locations to prevent hazards.
- Verify that all warning labels on the air conditioner are legible and in good condition; immediately replace any that are damaged or obscured.

Leak Inspection Before Maintenance

- Before starting maintenance, use a manufacturer-recommended leak detector or pump-type concentration detector to ensure there are no active leaks.
- If a leak is suspected:
    - Extinguish or remove all open flames and ignition sources from the area.
    - Turn off the air conditioner immediately.
    - Ensure the workspace is thoroughly ventilated.

R-32 Refrigerant Notes

3

Safety Principles During Maintenance

- Ensure the workspace is well-ventilated throughout the maintenance process.
- Do not smoke, weld, use open flames, or operate mobile phones in the work area.
- Wear anti-static clothing and gloves if the relative humidity falls below 40%.
- Immediately initiate forced ventilation and seal the leak source if a combustible refrigerant leak is detected.
- Transport the product back to the service station if the refrigerant system must be opened for maintenance; welding refrigerant pipes or performing similar operations at the customer's site is strictly prohibited.
- Restore the air conditioner to its original state and verify that the refrigerant system is reliably grounded if a follow-up service visit is necessary due to missing spare parts.
- Secure the cylinder vertically when storing it in a vehicle or at the maintenance site, keeping it away from electrical equipment, heat, radiation, and ignition sources.

Requirements for the Maintenance Location

- Ensure the maintenance location is well-ventilated, located at ground level, and not in a basement.
- Divide and label the maintenance location into separate welding and non-welding areas, ensuring a safe distance between them.
- Equip the maintenance location with proper ventilation and air exhaust systems to prevent refrigerant gas accumulation.
- Install the main power switch outside the maintenance area, and ensure it is equipped with explosion-proof protective devices.
- Maintain an instrument management system for all combustible refrigerant leak detectors, and verify that the detectors are functioning normally prior to maintenance.
- Equip the maintenance area with functional fire extinguishers suitable for electrical fires, such as dry chemical or carbon dioxide (CO_2) extinguishers.
- Prohibit the use of temporary wiring or extension sockets within the maintenance location.

R-32 Refrigerant Notes

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Requirements for Filling the Refrigerants

- Purge and vacuum the system for at least 30 minutes using nitrogen before operating the refrigerant system.
- Avoid cross-contamination among different refrigerants when using the charging device.
- Keep the total pipeline length as short as possible to minimize residual refrigerant inside the lines.
- Store and maintain all refrigerant storage tanks in an upright position.
- Ground the refrigeration system securely prior to charging it with refrigerant.
- Charge the system using only the specific refrigerant type and volume indicated on the product nameplate.
- Prohibit overcharging under any circumstances.
- Seal the refrigeration system properly upon completing all maintenance work.
- Verify that no maintenance procedures alter, damage, or reduce the original safety protection grade of the system.

In-Maintenance Welding

- Ensure the workspace is well-ventilated throughout the maintenance process.
- Confirm the refrigeration system is completely drained and cleaned, ensuring no residual refrigerant remains in the outdoor unit before beginning any welding.
- Close the outdoor unit stop valve before performing any torch-welding or brazing maintenance.

Maintenance of Electrical Components

- Ensure the workspace is well-ventilated throughout the maintenance process.
- Store refrigerant tanks vertically in a separate, well-ventilated location at a temperature range of 14°F to 122° F (-10°C to 50°C).
- Affix clear hazard warning labels to all refrigerant storage tanks.
- Confirm the refrigeration system is completely drained and cleaned, ensuring no residual refrigerant remains in the outdoor unit before beginning any welding.
- Close the outdoor unit stop valve before performing any torch-welding or brazing maintenance.
- Disconnect the unit's power before removing sealing covers. If power is required during maintenance, perform continuous leak detection at the most critical points to prevent potential hazards.
- Ensure all replacement parts and materials strictly meet the specifications recommended by the manufacturer.

R-32 Refrigerant Notes

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- Verify that sealing materials have not degraded due to aging, ensuring they retain their full ability to prevent combustible gas leaks.
- Ensure that the sealing function is not compromised or damaged after performing maintenance.
- Ensure that the maintenance of electrical components does not interfere with the proper reinstallation of the protective cover.
- Inspect the area around the serviced electrical parts using a specialized leak detector to ensure there are no refrigerant leaks.
- Do not modify, remove, or bypass any safety protection components after completing maintenance.
- Verify that the unit has a reliable ground connection and is completely free of refrigerant leaks before performing a trial operation.

Maintenance of Electrical Components

- Establish an emergency response plan for the maintenance location.
- Implement appropriate safety precautions during all work activities.
- Prohibit ignition sources (such as matches or lighters) and static-producing clothing or footwear within the work area.
- In the event of a large combustible refrigerant leak, follow these emergency procedures:
    - Activate ventilation systems immediately while isolating all other power sources.
    - Evacuate all affected personnel from the area urgently.
    - Inform nearby residents to evacuate to a distance of at least 66 feet (20 m) from the site.
    - Place an immediate emergency alarm call.
    - Set up an emergency boundary and prohibit unauthorized personnel and vehicles from approaching.
    - Ensure responding professional firefighters wear anti-static clothing while handling the emergency on-site.
    - Direct firefighters to locate and cut off the source of the refrigerant leak as soon as possible.
    - Blow nitrogen across the site, focusing specifically on low-lying areas, to clear away any residual combustible refrigerant gas.
    - Use a handheld detector to thoroughly scan the area surrounding the leak source.
    - Do not clear or turn off the emergency alarm until the refrigerant concentration reads exactly zero.

Product Overview

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Model Numbers

Note

The serial number is located behind the electric control box cover on each unit.

Model	Full System	Indoor Unit	Outdoor Unit
11.5K 110~120V	WYT012ALUI17RL	WT012ALUI17HLD	YN012ALUI17RPD
11.5K 208~230V	WYT012GLUI17RL	WT012GLUI17HLD	YN012GLUI17RPD
17K	WYT018GLUI17RL	WT018GLUI17HLD	YN018GLUI17RPD
23K	WYT024GLUI17RL	WT024GLUI17HLD	YN024GLUI17RPD
35K	WYT036GLUI17RL	WT036GLUI17HLD	YN036GLUI17RPD

Product Overview

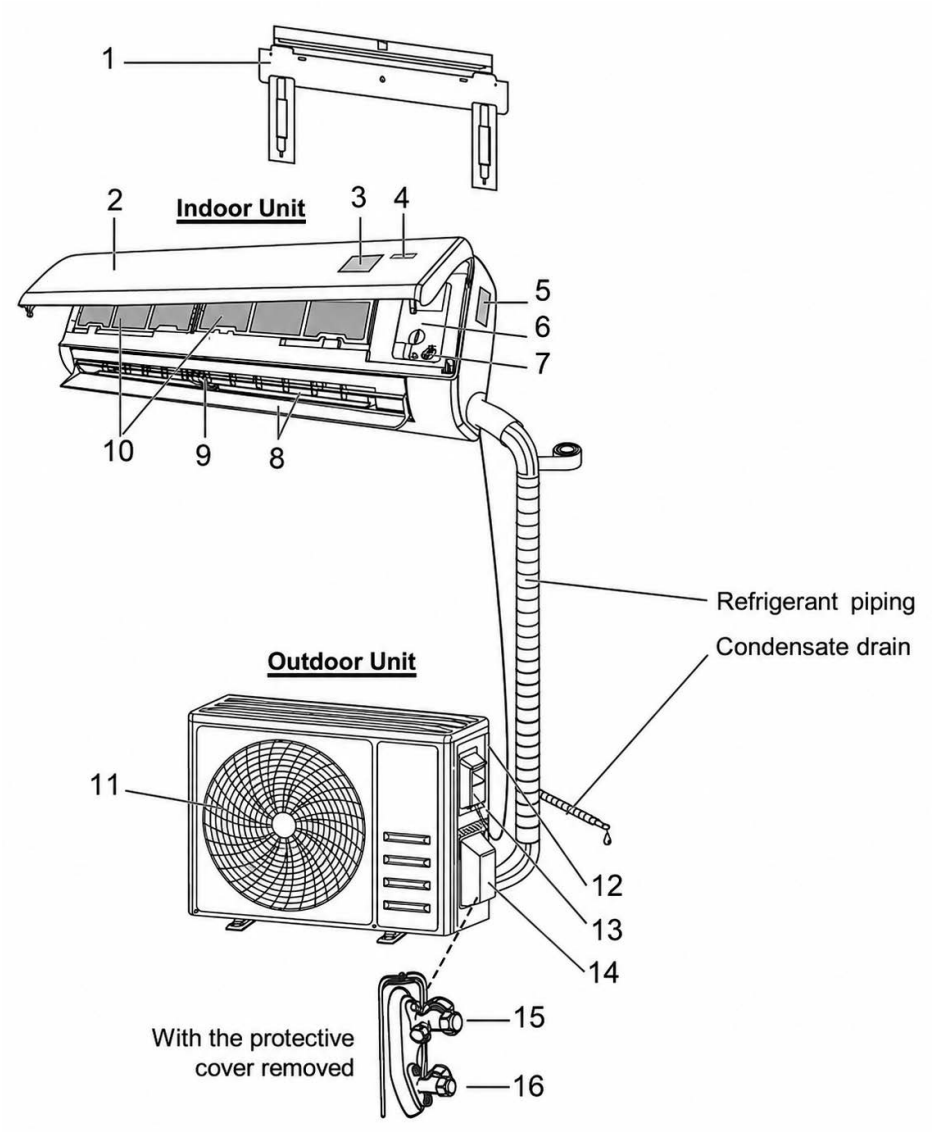
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Part Names

Note

Illustrations in this manual are for explanatory purposes. The actual shape of the indoor unit may be slightly different. The actual shape shall prevail.

The system consists of two units connected by insulated copper pipes and an electrical communication cable. Mount the indoor unit on a wall inside the room selected for air conditioning. Install the outdoor unit on the ground or on the wall using suitable mounting brackets.



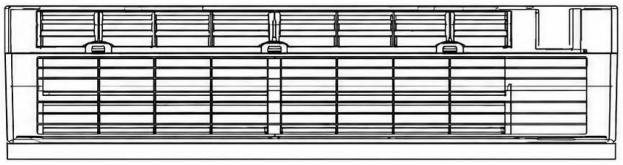
No.	Description
1	Wall mounting plate
2	Front panel
3	LED display
4	Controller signal receiver
5	Indoor unit rating label
6	Terminal block cover
7	Emergency (Manual) button
8	Air deflector & flap
9	Air outlet
10	Air filter
11	Air outlet grille
12	Outdoor unit nameplate
13	Terminal block cover
14	Valve protection cover
15	Gas (Suction) line valve
16	Liquid line valve

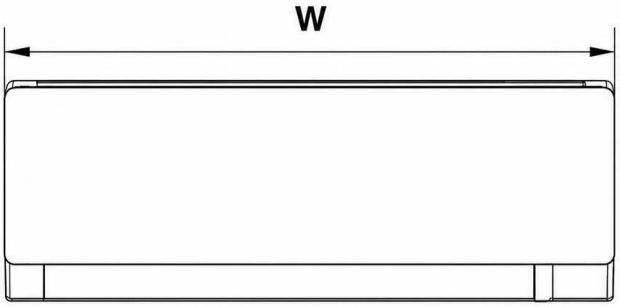
Product Overview

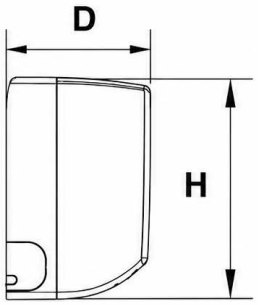
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Dimensions & Weight

Indoor Unit:







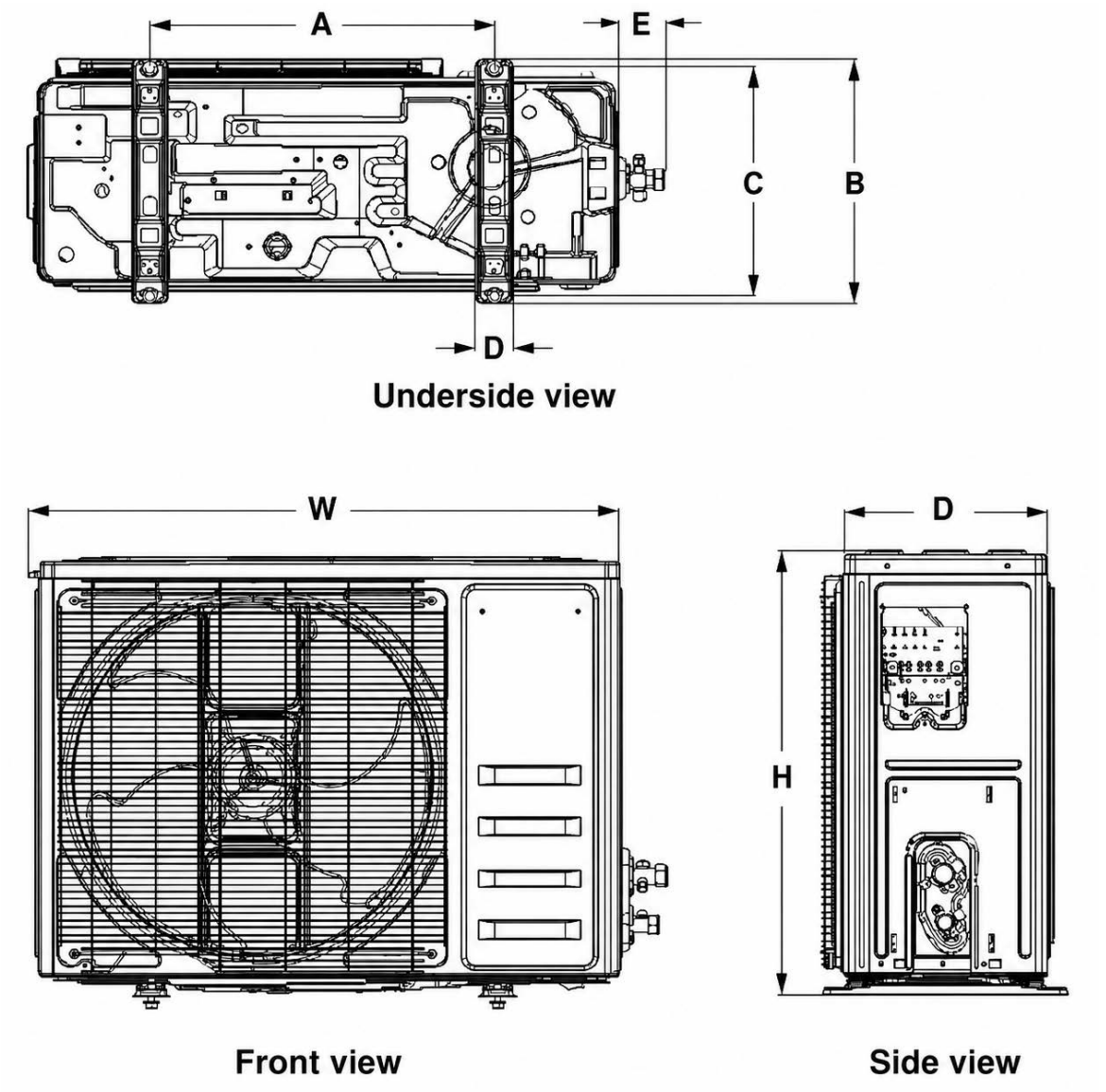
Indoor Unit	Dimensions		
	W	D	H
WYT012ALUI17RL	30-1/2 in	7-7/8 in	9-3/4 in
	775 mm	200 mm	248 mm
WYT012GLUI17RL	30-1/2 in	7-7/8 in	9-3/4 in
	775 mm	200 mm	248 mm
WYT018GLUI17RL	35-3/4 in	8-1/8 in	11-1/2 in
	908 mm	206 mm	292 mm
WYT024GLUI17RL	39-3/4 in	8-3/4 in	12-3/8 in
	1,010 mm	222 mm	314 mm
WYT036GLUI17RL	46-7/8 in	10-1/4 in	14-1/4 in
	1,191 mm	260 mm	362 mm

Indoor Unit	Net Unit Weight
WYT012ALUI17RL	16.5 lbs
	7.5 kgs
WYT012GLUI17RL	16.5 lbs
	7.5 kgs
WYT018GLUI17RL	20.9 lbs
	9.5 kgs
WYT024GLUI17RL	26.5 lbs
	12.0 kgs
WYT036GLUI17RL	38.6 lbs
	17.5 kgs

Product Overview

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Outdoor Unit:



Outdoor Unit	Dimensions							
	W	D	H	A	B	C	D	E
YN012ALUI17RPD	31 in	11-1/2 in	19-3/8 in	16-3/8 in	11-1/2 in	8-7/8 in	1-7/8 in	2 in
	787 mm	292 mm	492 mm	416 mm	292 mm	225 mm	48 mm	51 mm
YN012GLUI17RPD	31 in	11-1/2 in	19-3/8 in	16-3/8 in	11-1/2 in	8-7/8 in	1-7/8 in	2 in
	787 mm	292 mm	492 mm	416 mm	292 mm	225 mm	48 mm	51 mm
YN018GLUI17RPD	31-7/8 in	12 in	21-5/8 in	17-1/8 in	12 in	11 in	1-7/8 in	2 in
	810 mm	305 mm	549 mm	435 mm	305 mm	279 mm	48 mm	51 mm
YN024GLUI17RPD	34 in	13-3/4 in	23-5/8 in	20-1/4 in	13-3/4 in	12-3/8 in	2-1/8 in	2-1/4 in
	864 mm	349 mm	600 mm	514 mm	349 mm	314 mm	54 mm	57 mm
YN036GLUI17RPD	38-1/2 in	16-1/2 in	31-5/8 in	23-7/8 in	16-5/8 in	15-3/8 in	2-3/8 in	2-1/2 in
	978 mm	419 mm	803 mm	606 mm	422 mm	391 mm	60 mm	63.5 mm

Product Overview

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Outdoor Unit	Net Unit Weight
YN012ALUI17RPD	50.7 lbs
	23.0 kgs
YN012GLUI17RPD	50.7 lbs
	23.0 kgs
YN018GLUI17RPD	57.3 lbs
	26.0 kgs
YN024GLUI17RPD	70.5 lbs
	32.0 kgs
YN036GLUI17RPD	105.8 lbs
	48.0 kgs

Product Overview

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Operating Temperatures

The system is designed to run within a certain range of temperatures, which are listed below. The system has built-in protections that may stop the appliance when the ambient temperatures goes outside of these ranges.

Operating Temperatures	°F / °C
Temperature Setting Range	62~86°F
	17~30°C
Ambient Temperature Range for Cooling	5~122°F
	-15~50°C
Ambient Temperature Range for Heating	-4~86°F
	-20~30°C

Testing and rating agencies develop standard rating conditions to obtain full system-rated capacity and efficiency. Within certain limitations, variable speed compressors compensate the deviations from the rating conditions, especially the atmospheric conditions.

Heat pump systems function by exchanging energy between the indoor air and outdoor ambient air (atmospheric) in the form of heat. The system's net cooling or heating capacities and efficiencies change by atmospheric conditions, as well as the indoor air conditions, such as temperatures and humidity levels.

Professional individuals use detailed calculations to determine the capacity of the system required for a specific area or application, which are based on several internal and external factors.

To further optimize the performance of the unit, complete the following:

- Keep doors and windows closed.
- Use Timer On and Timer Off functions to limit energy usage.
- Do not block air inlets or outlets.
- Regularly inspect and clean air filters.

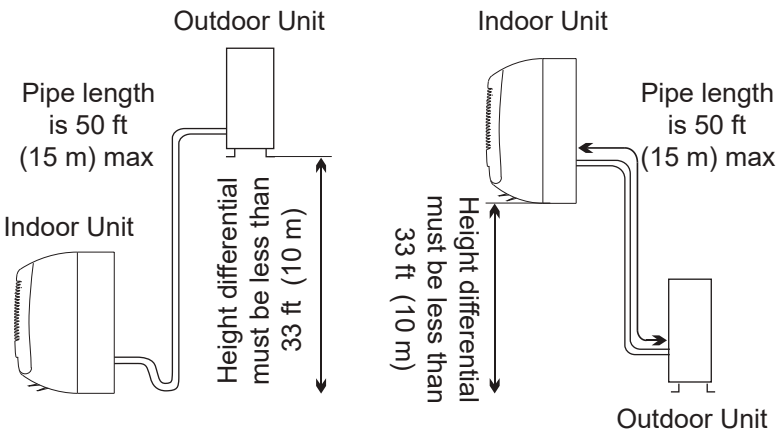
Refrigerant Piping Specifications

5

Refer to these tables for refrigerant piping specifications, such as maximum length and drop height.

WYT-17	11.5K BTU 110~120V	11.5K BTU 208~230V	17K BTU	23K BTU	35K BTU
Liquid Pipe Diameter	Φ 1/4 in (6.4 mm)	Φ 1/4 in (6.4 mm)	Φ 1/4 in (6.4 mm)	Φ 1/4 in (6.4 mm)	Φ 1/4 in (6.4 mm)
Gas Pipe Diameter	Φ 3/8 in (9.5 mm)	Φ 3/8 in (9.5 mm)	Φ 3/8 in (9.5 mm)	Φ 1/2 in (12.7 mm)	Φ 5/8 in (15.9 mm)
Max. Length of Pipe with Standard Charge	25 ft / 7.6 m				
Max. Length Between Indoor and Outdoor Unit	50 ft / 15.2 m	50 ft / 15.2 m	50 ft / 15.2 m	65 ft / 19.8 m	100 ft / 30.5 m
Adjustment Refrigerant Charge (For each additional foot after 25 ft.)	0.11oz/ft				
Max. Drop Height Between Indoor and Outdoor Unit	33 ft / 10 m	33 ft / 10 m	33 ft / 10 m	50 ft / 15.2 m	65 ft / 19.8 m
Type of Refrigerant	R-32				

Consider the following height and length restrictions:



For 11.5K & 17K BTU Systems

Follow the given constraints in the figures to the left.

For 23K & 35K BTU Systems:

- The allowable height differential increases to 50 feet / 15 m (23K) and 65 feet / 20 m (35K)
- The allowable pipe length is 65 feet / 20 m (23K) and 100 feet / 30.5 m (35K)

Maintenance

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Performing periodic maintenance, such as cleaning the anti-dust filters and the indoor air handler's interior, will ensure the system remains efficient.

CAUTION

- Before performing any maintenance, ensure the system's power supply is turned off for more than 5 minutes.
- Wear safety gloves when working on the equipment, due to the coil's sharp aluminum fin edges.
- Do not spray water directly into the indoor unit, as it can damage the insulation and electrical components.

A. Anti-Dust Filters

Inspect the anti-dust filter once every 2 weeks.

1. Open the front panel by pulling outward and upward at the indication locations.

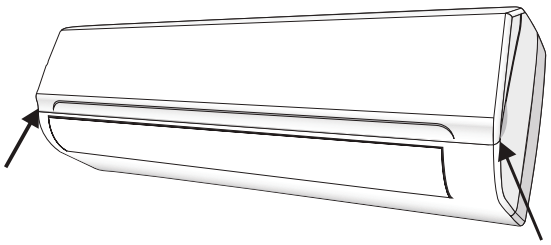
2. Keep the front panel raised with one hand, then remove the air filter with the other.

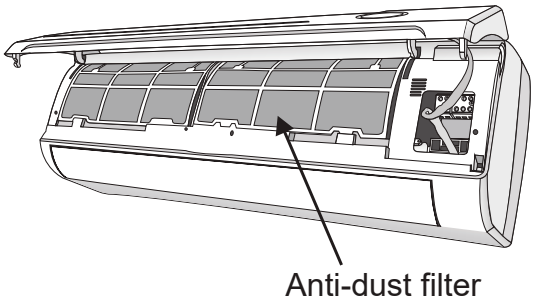
3. The filters are washable and should be cleaned with warm water (under 104°F/40°C).

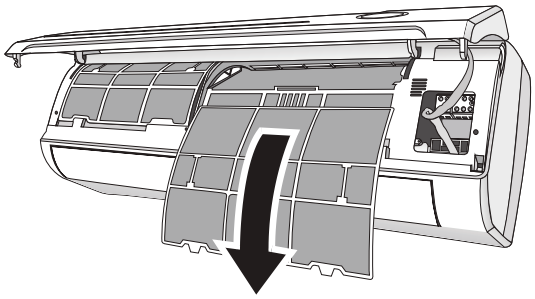
4. Leave the filter to dry in a cool, dry place.

5. Keep the front panel raised with one hand, then insert the air filter with the other.

6. Close the front panel.







Note

Accessorial electrostatic or deodorizing filters are not washable and should be replaced every 6 months.

Maintenance 6

B. Interior of the Indoor Air Handler

Inspect the indoor unit's interior as well as the inner coil every season.

1. Disconnect the front panel and remove the top hinge where the pegs connect. This offers easier inspection of the interior and behind the air filters.

2. Clean the interior with a damp, soft cloth and neutral soaps. Do not use any types of aggressive solvents or detergents.

Maintenance - Long Periods of Non-Use

If the air conditioner won't be used for an extended period of time.

Clean all filters

Turn on the Fan function until the unit dries out completely

Turn off the unit and disconnect the power

Remove the batteries from the remote control

Maintenance - Pre-Season Inspection

After long periods of non-use or before periods of frequent use, do the following:

Check for damaged wires

Clean all filters

Check for leaks



Make sure nothing is blocking the air inlets and outlets

Replace the batteries

Troubleshooting 7

Malfunction	Possible Causes
If the appliance does not operate or respond...	There is a power failure / plug pulled out or tripped / wrong breaker (wrong wiring)
	The indoor / outdoor unit fan motor is damaged
	There is a faulty compressor or thermomagnetic circuit breaker
	There is a faulty protective device or fuses
	The electrical connections are loose
	The system has entered a protection mode
	The system has entered an overvoltage or undervoltage protection
	The Timer-On function is active
	The electronic control board was damaged
If there are strange odors...	The air filter is dirty
If there is running water...	There is a back-flow of condensate water into the system's drain pan.
If a fine mist is coming from the air outlet...	This occurs when the air in the room becomes considerably cold. For example in "Cooling" or "Dehumidification / Dry" modes
If strange noises are being emitted...	This noise is made by the expansion or contraction of the front panel due to variations in temperature. If so, this is normal
If the airflow is insufficient, and the air is not hot or cold enough...	The temperature setting is unsuitable
	The air conditioner intakes and outlets may be obstructed
	The air filter may be dirty
	The fan speed may be set at the minimum
	There may be too many other heat sources in the room
	The system may be getting low on refrigerant. Pressures should be checked
If the appliance does not respond to commands...	The remote control may not be close enough to the indoor unit
	The batteries of the remote control may need to be replaced
	There are obstacles between the remote control and indoor unit signal receiver
If the display is off...	The Display button has been pressed
	There has been a power failure
Switch off the air conditioner immediately and cut off the power supply in the event of...	Strange noises not due to expansion/contraction are heard during operation
	The electronic control board is faulty or malfunctioning
	Any fuses or switches are faulty or malfunctioning
	The sound of spraying water or objects are heard inside the appliance
	The cables or plugs have overheated
	There are very strong odors being emitted from the appliance

Error Signals on the Display

In case of errors, the display on the indoor unit may show the following codes:

Display	Description of the error	Display	Description of the error
E1	Indoor temperature sensor fault	E8	Outdoor discharge temperature sensor fault
E2	Indoor pipe temperature sensor fault	E9	Outdoor IPM module fault
E3	Outdoor pipe temperature sensor fault	EA	Outdoor current detection fault
E4	Refrigerant system leakage or fault	EO	Indoor ↔Outdoor unit communication fault
E6	Malfunction of the indoor fan motor	FY	Refrigerant leak / Low pressure detected
E7	Outdoor air temperature sensor fault	EH	Outdoor suction temperature sensor fault

Do not attempt to use the system until the error code is diagnosed and resolved. Forcing the system to run can cause irreversible damage.

Troubleshooting

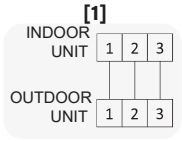
7

Solutions to Common Issues & Scenarios

Issue: The indoor air handler does not turn on

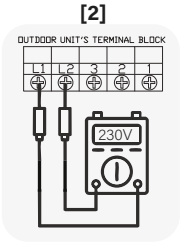
- Solution: Try the manual emergency button on the indoor unit to rule out remote control issues.

[1]



- Solution: Verify that the wiring order is identical between the indoor and outdoor units. The color sequence must match exactly. Check for splices or damage along the control cable. To eliminate variables, temporarily disconnect all accessory items, such as UV lights or condensate pumps, until the problem is resolved.

[2]



- Solution for 230V systems: Use a multimeter to check the AC voltage across terminals L1 and L2 on the outdoor system. Place one probe on L1 and the other on L2. Do not measure each leg to ground. Verify that the reading is between 208~253 VAC.
    - If the reading is between 208~253 VAC, check whether it is the same across terminals 2 and 3 on both the indoor and outdoor units. All readings must match. The system requires a full 230V reading to function.

    - A reading of 0 VAC indicates that the system is not receiving power from the source. Some common reasons are:
        - A fused disconnect is being used, but the fuses are blown and improperly inserted.
        - The disconnect box bus-bar is turned off.
        - A double-pole breaker is not being used. Single or tandem breakers will not operate.

Issue: The pressure reading does not rise when releasing refrigerant during the leak check

- Solution: Verify that the manifold gauge hose pin fully engages the outdoor unit's service port Schrader valve. A pin that is over-extended or under-extended will block access to the refrigerant circuit, preventing pressure measurement and proper vacuuming. The depressor pin inside the hose connector is adjustable to ensure proper engagement.
    - A telltale sign that this is happening is if the gauge reading goes to an instant vacuum when the pump is first turned on, meaning only the gauge is being vacuumed.

    - If so, vacuuming will need to be re-performed, since only the gauge was vacuumed.

Troubleshooting

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Issue: The system is not holding a vacuum

- Solution: There is likely a leak in the gauge hoses. Repair it and check the vacuum pump.
- Solution: Check the connection points for proper contact and torque, then tighten if necessary.

Issue: The indoor air handler is leaking water

- Solution: Verify that the indoor unit is level both horizontally and vertically.
- Solution: Confirm that the drain tube pitches continuously downward.
    - Pour a cup of water over the indoor unit's coils to ensure it reaches the drain pan.
    - Verify that water drains freely from the tube. If it does not, find the cause and correct it.

Issue: The system indicates that a refrigerant leak is present

- Solution: Cut off the power to the system. Prepare a soapy water spray and apply it to the connection points of the lineset. The point where bubbles form is where the leak is located. Tighten the connection and re-test the system. After the leak is repaired, recharge the system.

Issue: The fan runs in Cooling mode but in Heating mode there is weak or no airflow

- Solution: Fan speed control is typically unavailable in Heating mode. If the coil cannot heat up, the fan will not run at speed. This issue may also indicate low refrigerant.

Troubleshooting

7

Error Codes

Code	Reason	Remark
bc	PM2.5 sensor error (indoor unit; optional feature)	Use the remote control to check the error code
bE	CO_2 sensor error (indoor unit; optional feature)	/
bf	TVOC sensor error (indoor unit; optional feature)	Use the remote control to check the error code
bj	Humidity sensor error (indoor unit)	Use the remote control to check the error code
CL	Filter cleaning reminder	Clean the air filter
d4	Drain pan full protection	/
d5	Access control signal protection	/
E0	Indoor and outdoor units communication error	Is the wiring connection between the units correct?
E1	Indoor unit room temperature sensor error (IDU RT sensor)	Indoor unit sensor and PCB
E2	Indoor unit coil temperature sensor error (IDU IPT sensor)	Indoor unit sensor and PCB
E3	Outdoor unit coil temperature sensor error (ODU OPT sensor)	Outdoor unit sensor and PCB
E4	System abnormality / refrigerant shortage	Gas leakage / 2-way or 3-way valve blocked / etc.
E5	Model configuration mismatch (production line testing only)	/
E6	Indoor unit DC fan fault (IDU fan)	Fan blade, fan motor, and indoor out PCB

Troubleshooting

7

Code	Reason	Remark
E7	Outdoor unit ambient temperature sensor error (OAT sensor)	Outdoor unit sensor and PCB
E8	Outdoor unit discharge temperature sensor error (ODT sensor)	Outdoor unit sensor and PCB
E9	Outdoor unit IPM / compressor drive fault	Outdoor unit PCB, compressor, etc.
EA	Outdoor unit current sensor error	Is the outdoor unit PCB broken?
Eb	Communication error between indoor main PCB and display board (IDU)	Display board and main PCB
EC	Outdoor unit module communication error	/
EE	Outdoor unit EEPROM error	1. Is the outdoor unit PCB broken? 2. Try to re-power the unit
EF	Outdoor unit DC fan motor error	Fan motor and outdoor unit PCB
EH	Outdoor unit suction temperature sensor error	/
Ej	Outdoor unit mid-coil temperature sensor error	/
En	Outdoor unit gas pipe temperature sensor error	/
EP	Outdoor unit compressor top temperature sensor error	/
EU	Outdoor unit voltage detection circuit abnormality	Outdoor unit PCB
Ey	Outdoor unit liquid pipe temperature sensor error	/

Troubleshooting

7

Code	Reason	Remark
F0	Indoor unit infrared sensor error	Use the remote control to check the error code
F1	Indoor unit power detection module error	Use the remote control to check the error code
F2	Outdoor unit discharge temperature sensor error protection	Check the troubleshooting for details
F3	Outdoor unit coil temperature sensor error protection	Check the troubleshooting for details
F4	Abnormal refrigerant flow protection	Check the troubleshooting for details
F5	Outdoor unit PFC protection	Check the troubleshooting for details
F6	Compressor phase loss / Phase reversal protection	Check the troubleshooting for details
F7	Outdoor unit IPM abnormal temperature protection	Check the troubleshooting for details
F8	Outdoor unit 4-way valve reversing abnormality	Check the troubleshooting for details
F9	Outdoor unit IPM temperature sensor error	Outdoor unit PCB
FA	Outdoor unit compressor phase current detection circuit failure	Outdoor unit PCB
Fb	Cooling / Heating overload frequency limit	Use the remote control to check the error code
FC	Frequency reduction due to high power consumption	Use the remote control to check the error code
Fd	Refrigerant leak sensor communication error	Check the troubleshooting for details

Troubleshooting

7

Code	Reason	Remark
FE	Outdoor unit IPM / compressor phase overcurrent protection	Use the remote control to check the error code
FF	Frequency reduction due to high IPM temperature	Use the remote control to check the error code
FH	Frequency reduction due to compressor drive limit	Use the remote control to check the error code
Fj	Frequency reduction due to high discharge temperature	Use the remote control to check the error code
Fn	Frequency reduction due to high AC input current	Use the remote control to check the error code
FP	Frequency reduction to prevent condensation	Use the remote control to check the error code
FU	Frequency reduction to prevent coil freezing	Use the remote control to check the error code
Fy	Refrigerant deficiency protection	Check the troubleshooting for details
H1	Outdoor unit high-pressure switch error	/
H2	Outdoor unit low-pressure switch error	/
Hd	Refrigerant leak protection	/
P0	Outdoor unit IPM protection	Outdoor unit PCB
P1	Overvoltage / undervoltage protection	1. Is the outdoor unit PCB broken? 2. Is the power supply abnormal?
P2	Overcurrent protection	1. Is the outdoor unit PCB broken? 2. Is the power supply abnormal?

Troubleshooting

7

Code	Reason	Remark
P4	Outdoor unit high discharge temperature protection	Check the troubleshooting for details
P5	Cooling / Dry mode overcooling protection	Check the troubleshooting for details
P6	Cooling mode overheat protection	Check the troubleshooting for details
P7	Heating mode overheat protection	Check the troubleshooting for details
P8	Outdoor ambient high / low temperature protection	Check the troubleshooting for details
P9	Outdoor unit compressor drive overload protection	Check the troubleshooting for details
PA	Mode conflict / Indoor unit upper airflow module communication error	Check the troubleshooting for details

Note: Remote Controller Failure Code Querying Function

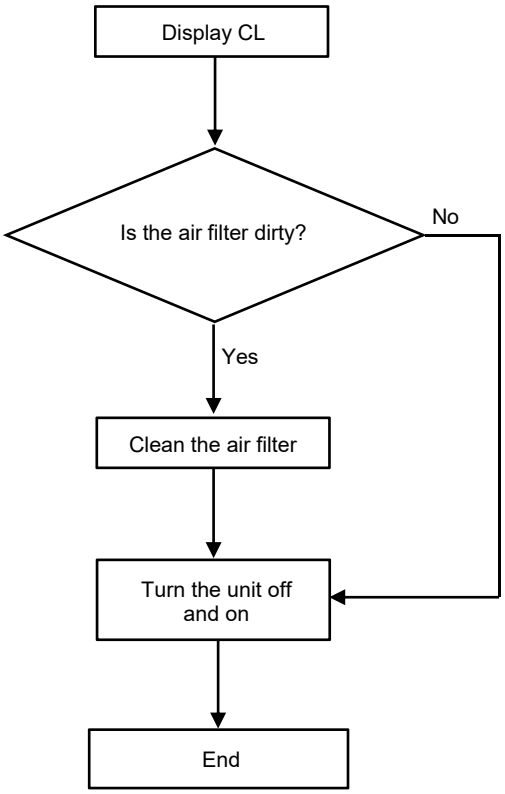
As shown in the table above, some codes (Fb–bj) can only be viewed using the remote control. To view these codes, press the ECO button on the remote control 8 times within 8 seconds. The buzzer beeps twice to confirm the query.

Troubleshooting

7

CL Code: Filter Cleaning Reminder

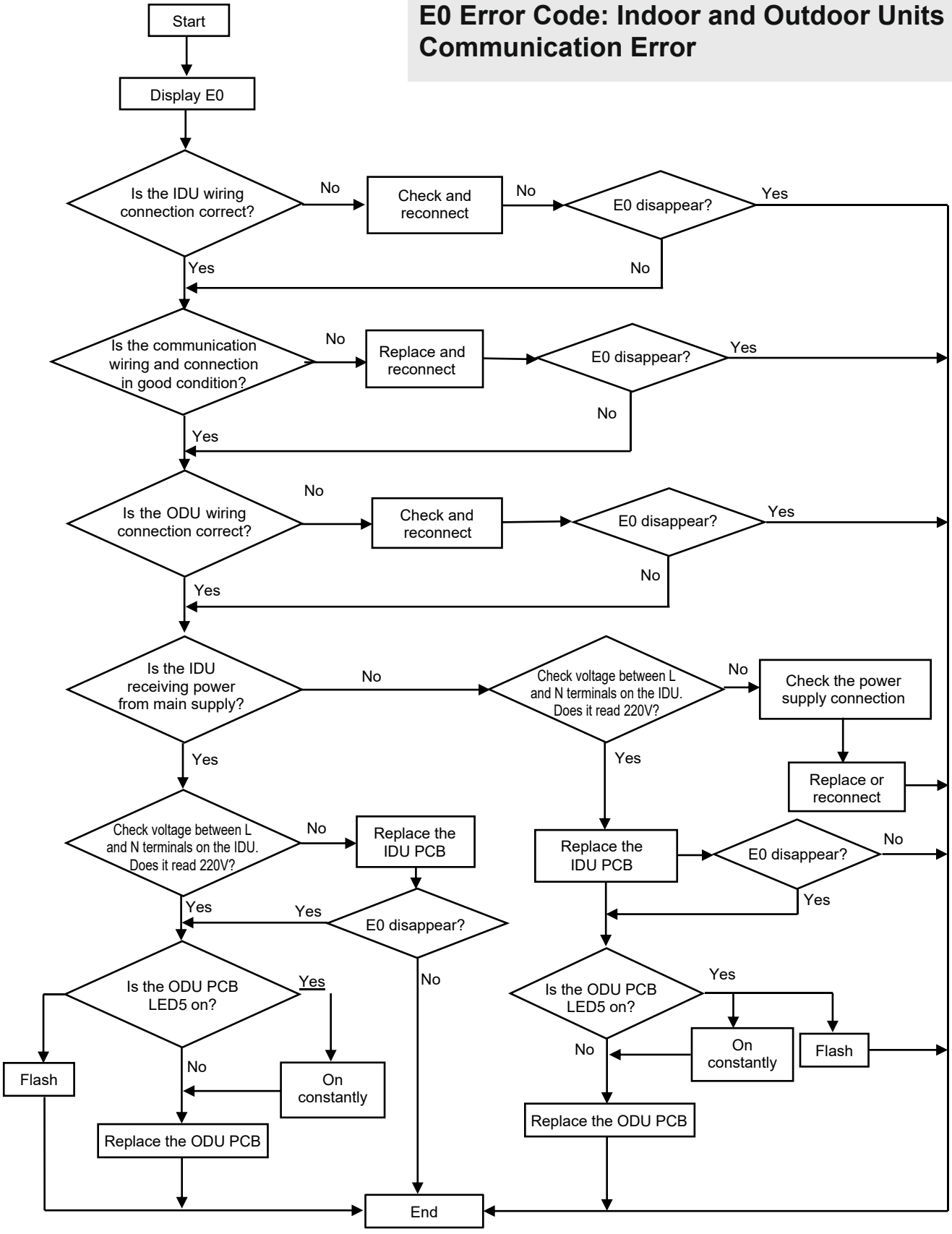
After the system has run for a total of 500 hours, the display shows “CL” to remind you to clean the air filter. This is a reminder, not an error code.



Troubleshooting

7

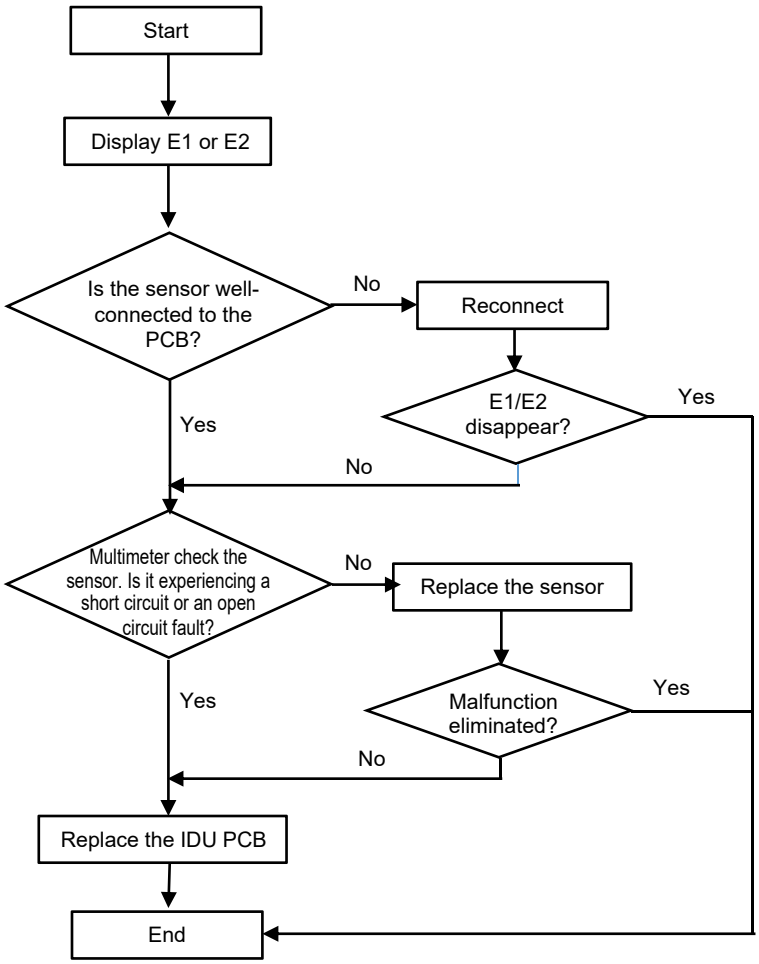
E0 Error Code: Indoor and Outdoor Units Communication Error



Troubleshooting

7

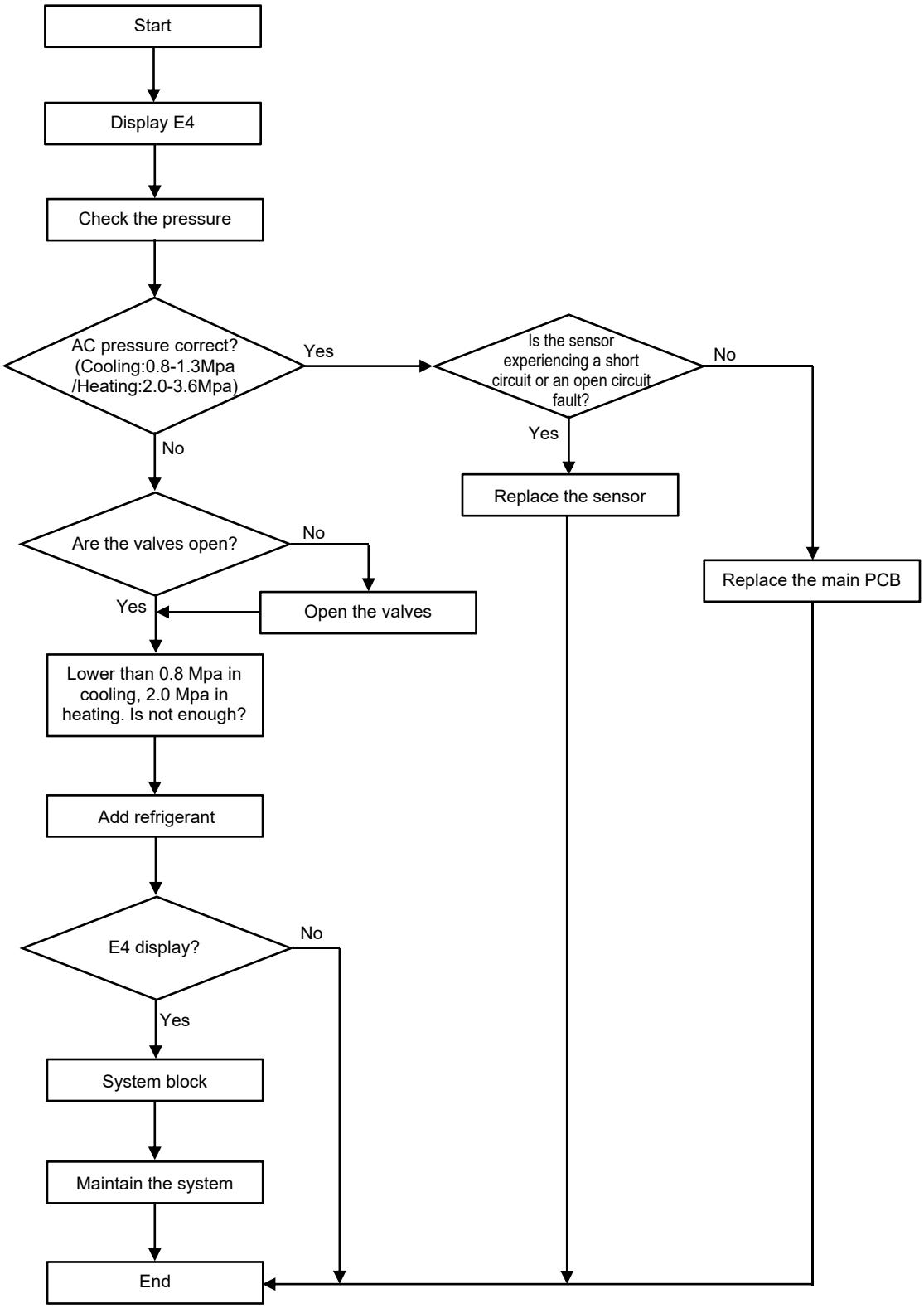
E1 / E2 Error Codes: Indoor Unit Room Temperature Sensor Error and/or Indoor Unit Coil Temperature Sensor Error



Troubleshooting

7

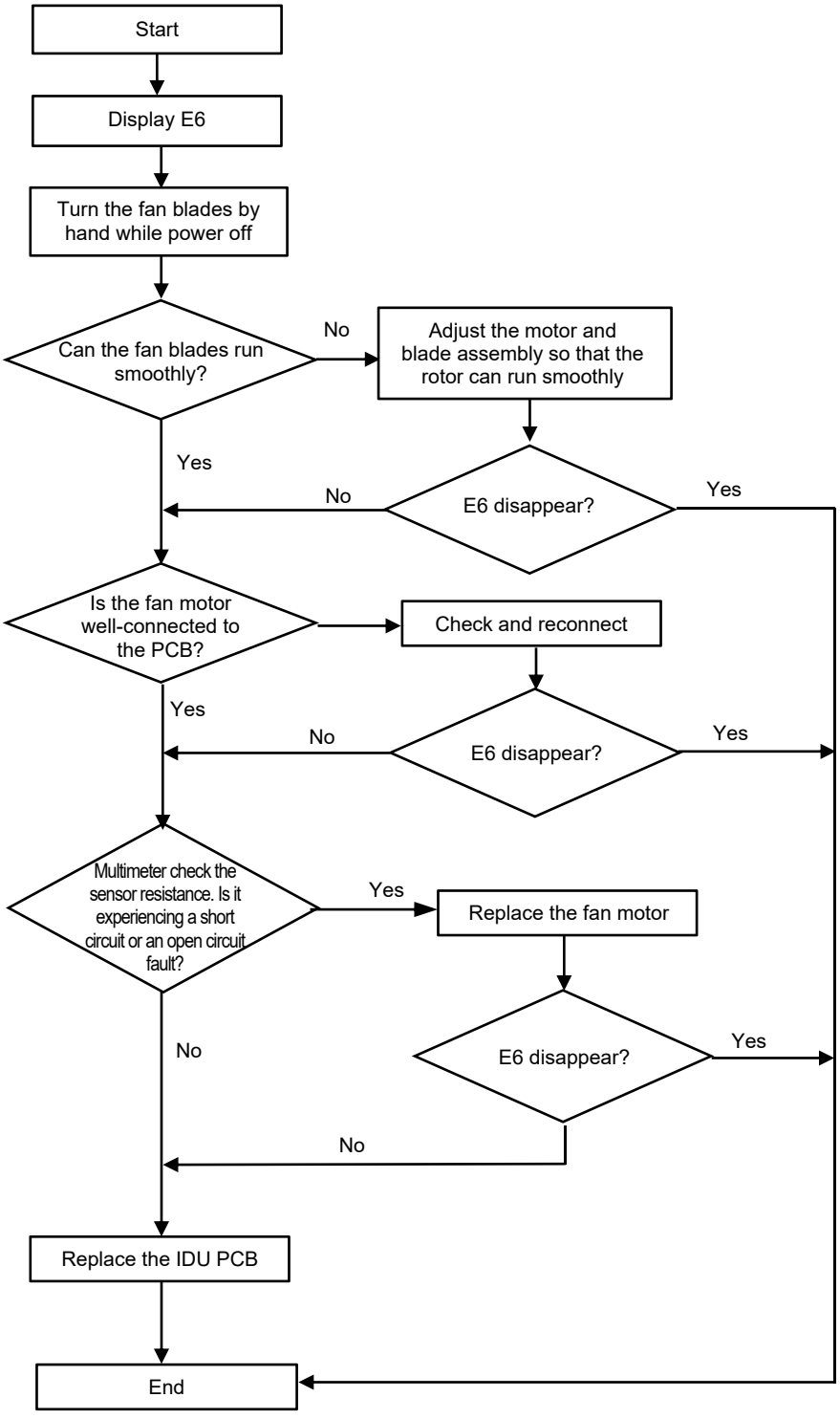
E4 Error Code: System Abnormality / Refrigerant Shortage



Troubleshooting

7

E6 Error Code: Indoor Unit DC Fan Fault



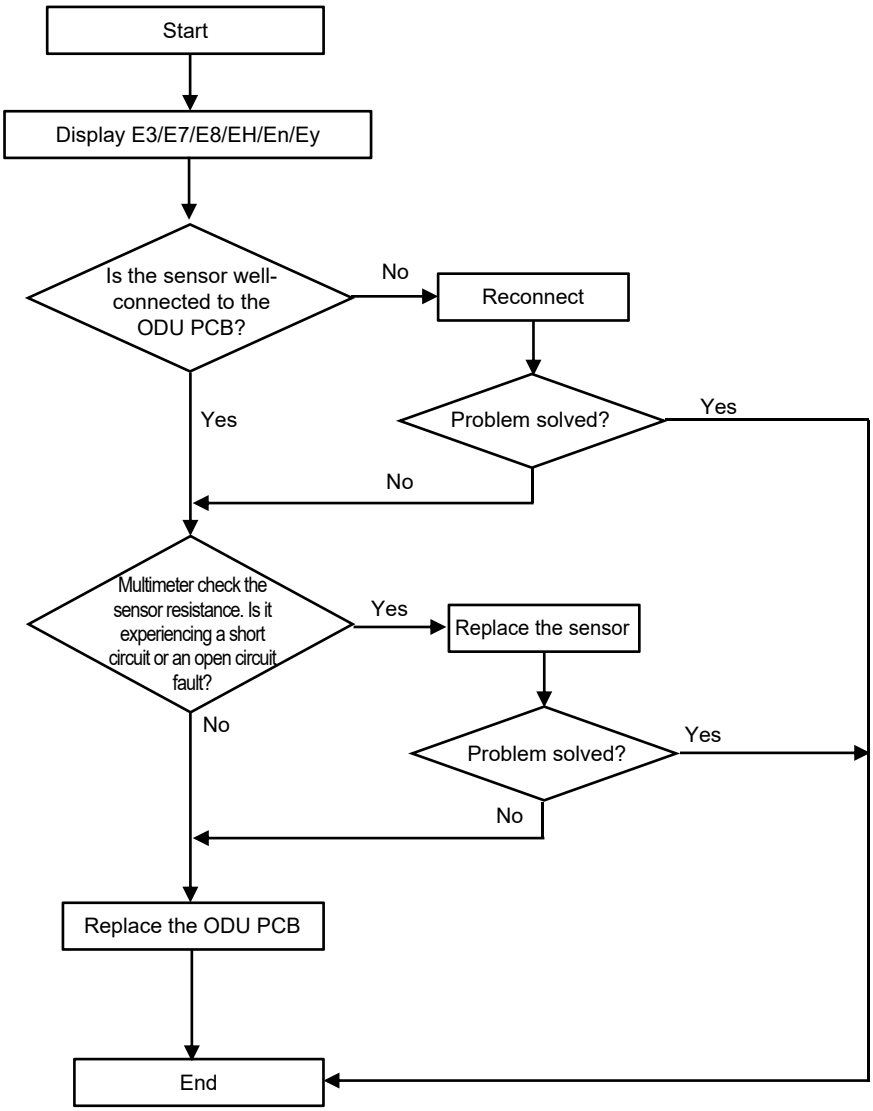
Troubleshooting

7

E3 / E7 / E8 / EH / En / Ey Error Codes:

E3: Outdoor unit coil temperature sensor error
E7: Outdoor unit ambient temperature sensor error
E8: Outdoor unit discharge temperature sensor error
EH: Outdoor unit suction temperature sensor error
En: Outdoor unit gas pipe temperature sensor error
Ey: Outdoor unit liquid pipe temperature sensor error

If any temperature sensor has a short circuit or open circuit, the system displays the corresponding error code, and both the indoor and outdoor units turn off. When the sensor returns to normal, the system goes into standby and can be turned on again as usual.

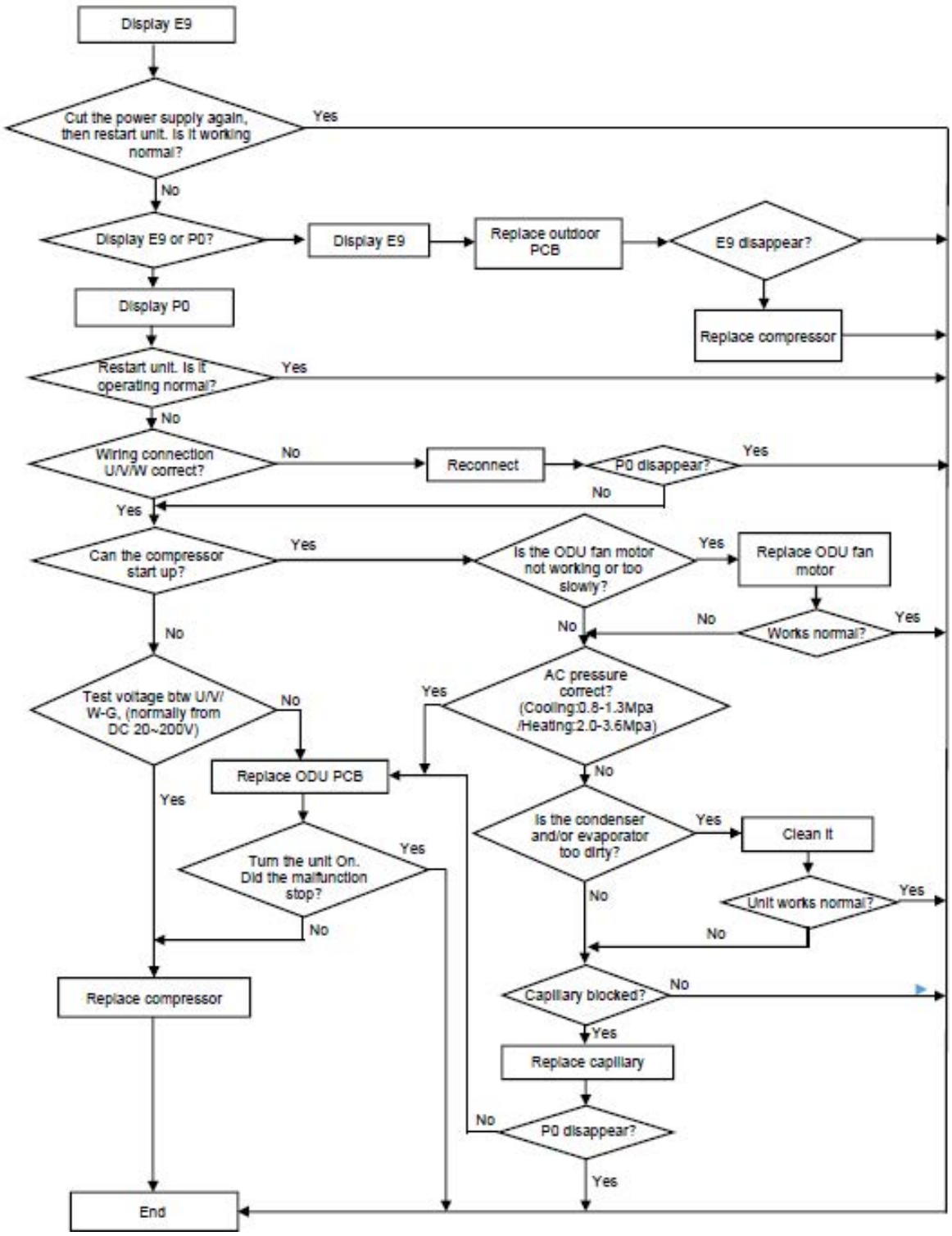


Troubleshooting

7

E9 Error Code: Outdoor Unit IPM / Compressor Drive Fault

If the IPM protection stops the unit six times in a row, the system displays error code "E9" and will not restart until the Power button is pressed.



Troubleshooting

7

EA Error Code: Outdoor Unit Current Sensor Error

Cause: Outdoor current sampling circuit failure or drive parameter mismatch.

Solution: Replace the outdoor unit PCB.

Eb Error Code: Communication Error Between Indoor Main PCB & Display Board

Causes:
1. The communication wire is damaged.
2. The outdoor unit main board is damaged.
3. The operating board is damaged.

Solutions:
1. Replace the communication wire.
2. Replace the outdoor unit main board.
3. Replace the operating board.

EE Error Code: Outdoor Unit EEPROM Error

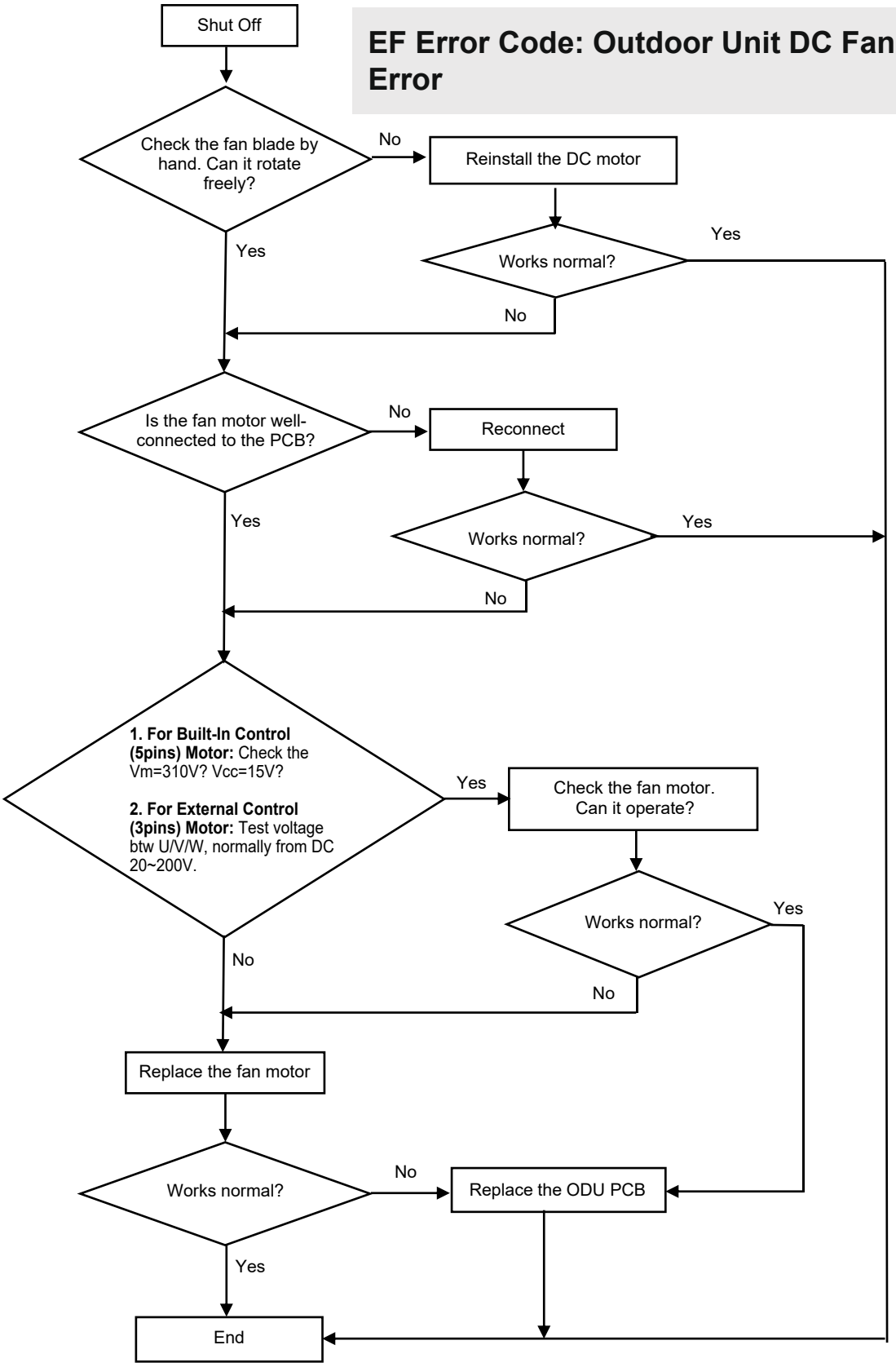
Cause: The outdoor unit main board is damaged.

Solution: Replace the outdoor unit PCB.

Troubleshooting

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EF Error Code: Outdoor Unit DC Fan Motor Error

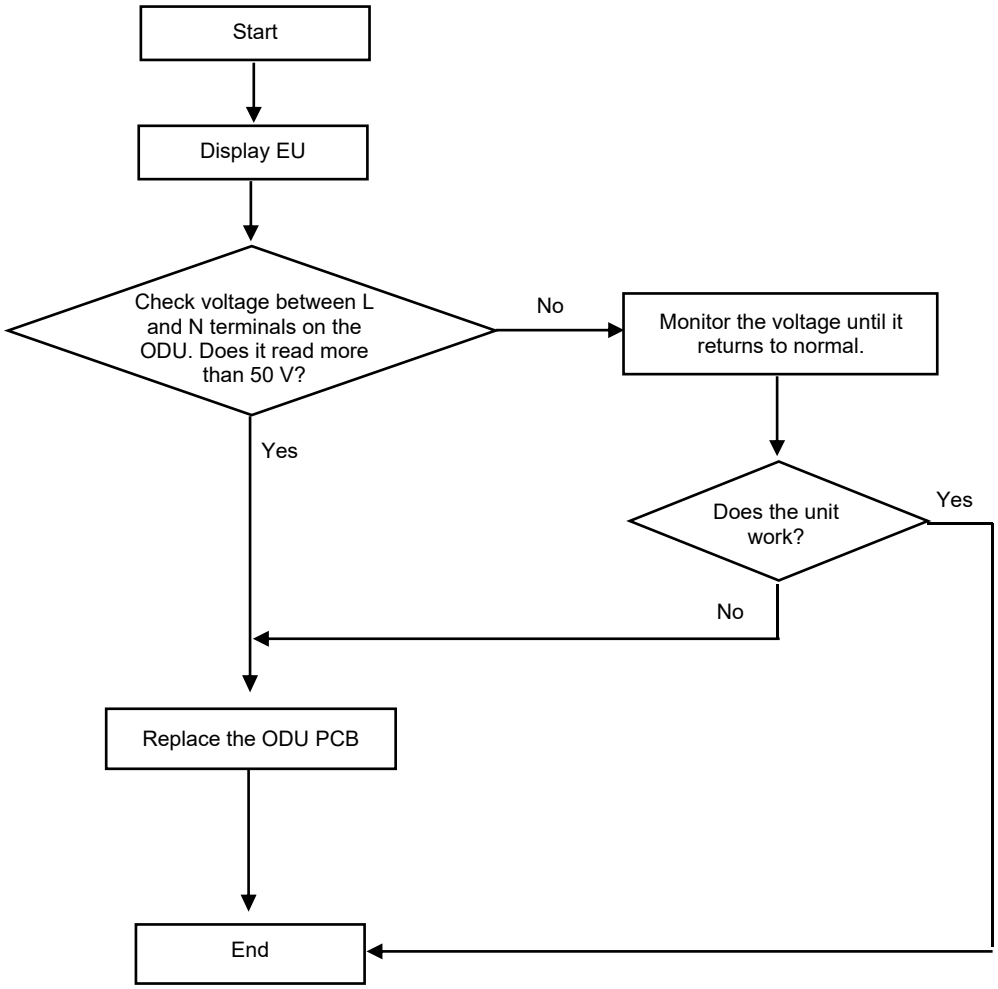


Troubleshooting

7

EU Error Code: Outdoor Unit Voltage Detection Circuit Abnormality

After the power relay is energized, if the measured voltage stays below 50 V for 3 consecutive seconds, the system displays error code "EU."

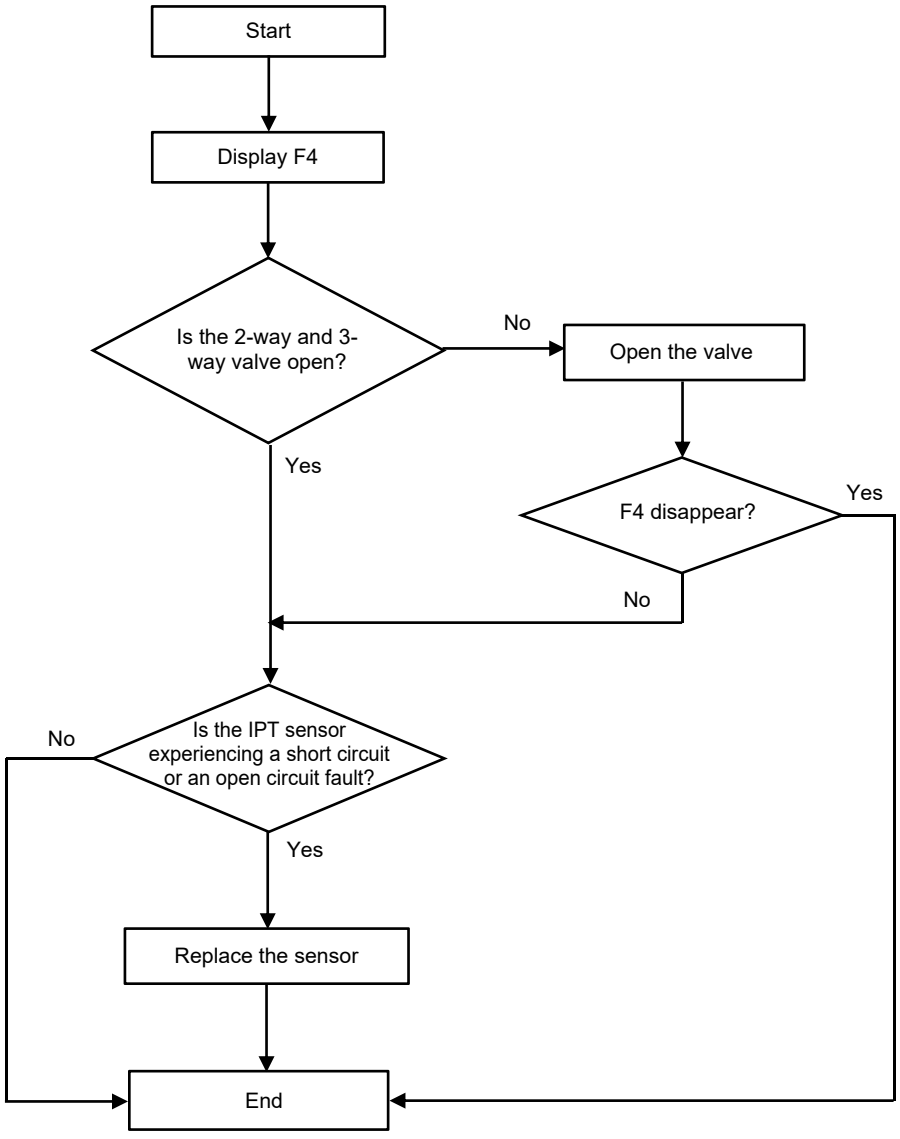


Troubleshooting

7

F4 Error Code: Abnormal Refrigerant Flow Protection

When the compressor starts, the system monitors changes in the indoor coil temperature. If the 2-way or 3-way valve on the outdoor unit has not been opened during installation, refrigerant cannot flow through the system. The system then activates refrigerant flow protection, stops, and displays error code "F4."

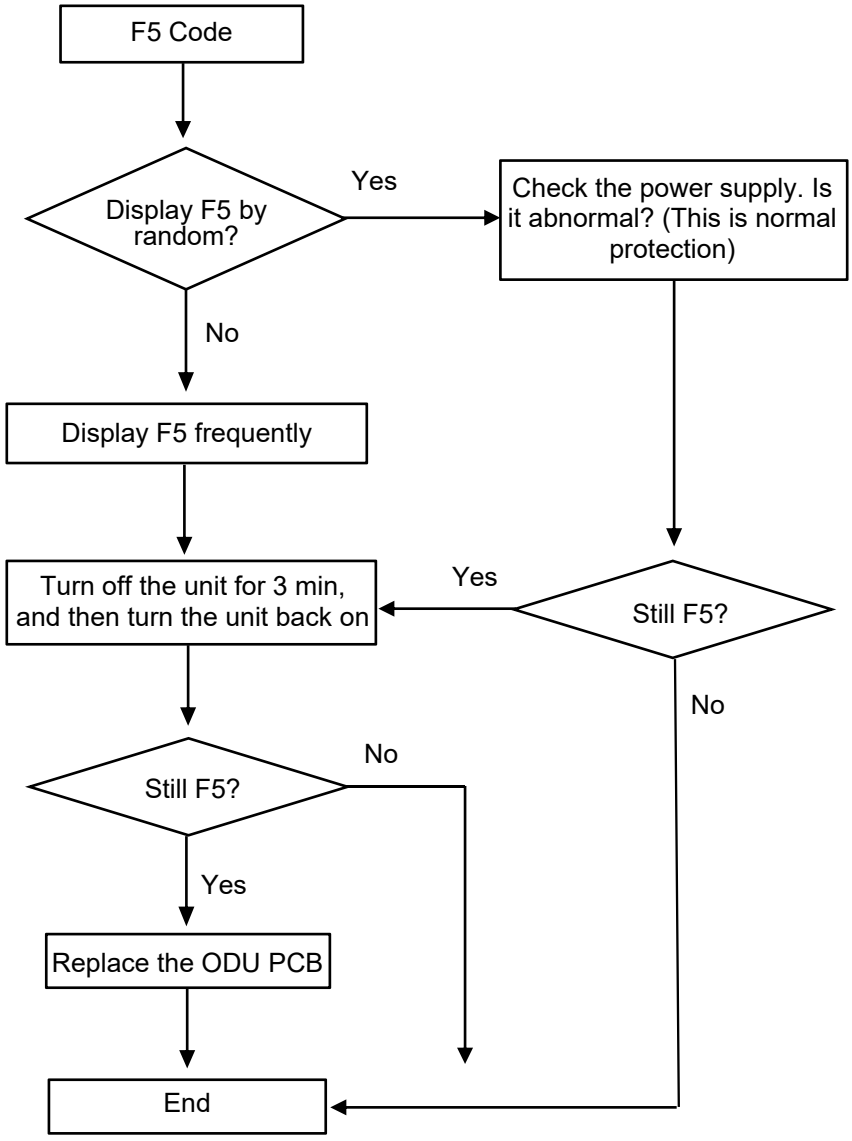


Troubleshooting

7

F5 Error Code: Outdoor Unit PFC Protection

If the outdoor unit undergoes PFC protection, the system displays the "F5" error code.

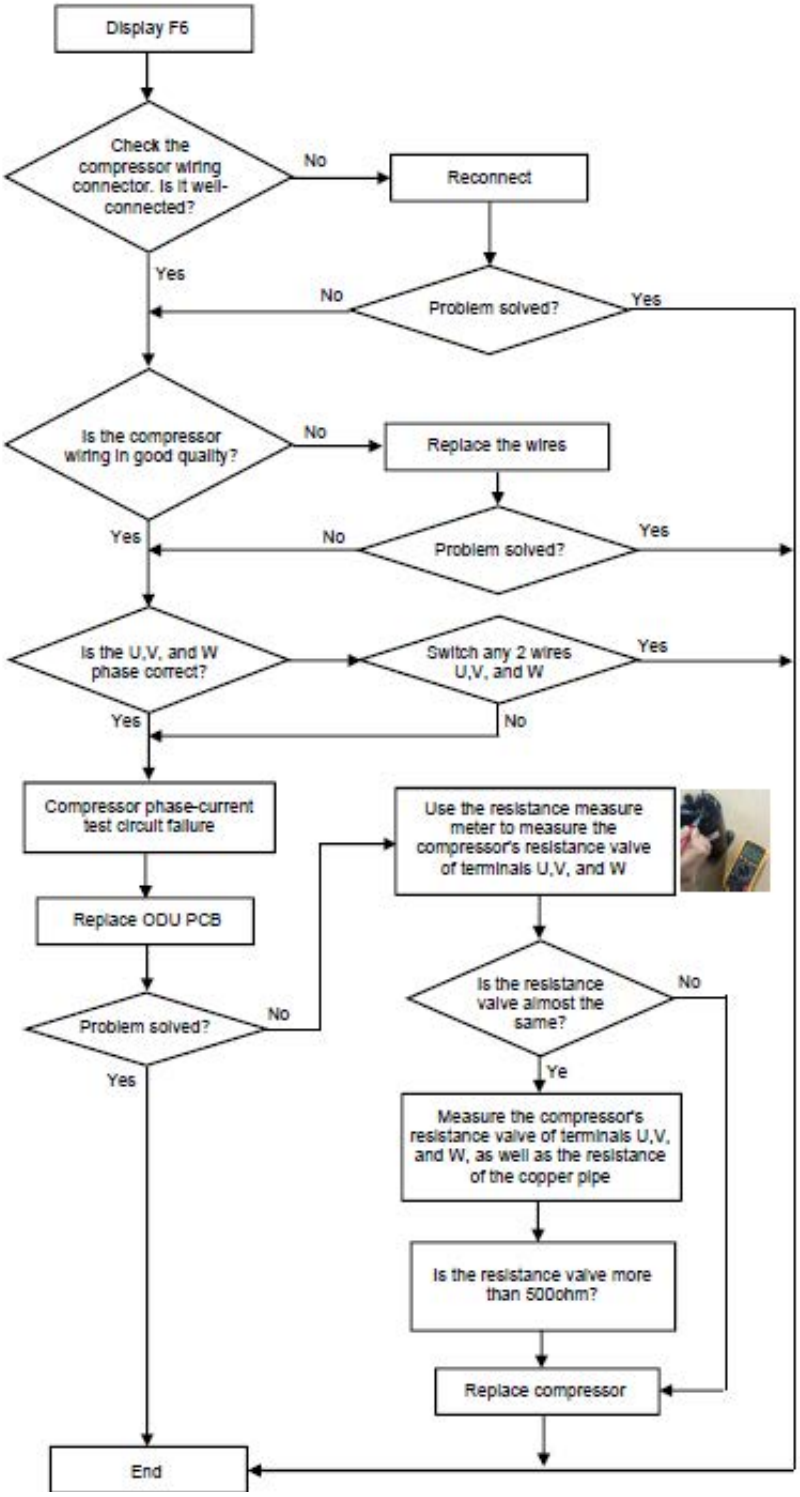


Troubleshooting

7

F6 Error Code: Compressor Phase Loss / Phase Reversal Protection

If the outdoor unit PCB cannot detect current in one or more phases of the compressor, the system activates phase loss protection, stops, and displays error code "F6."



Troubleshooting

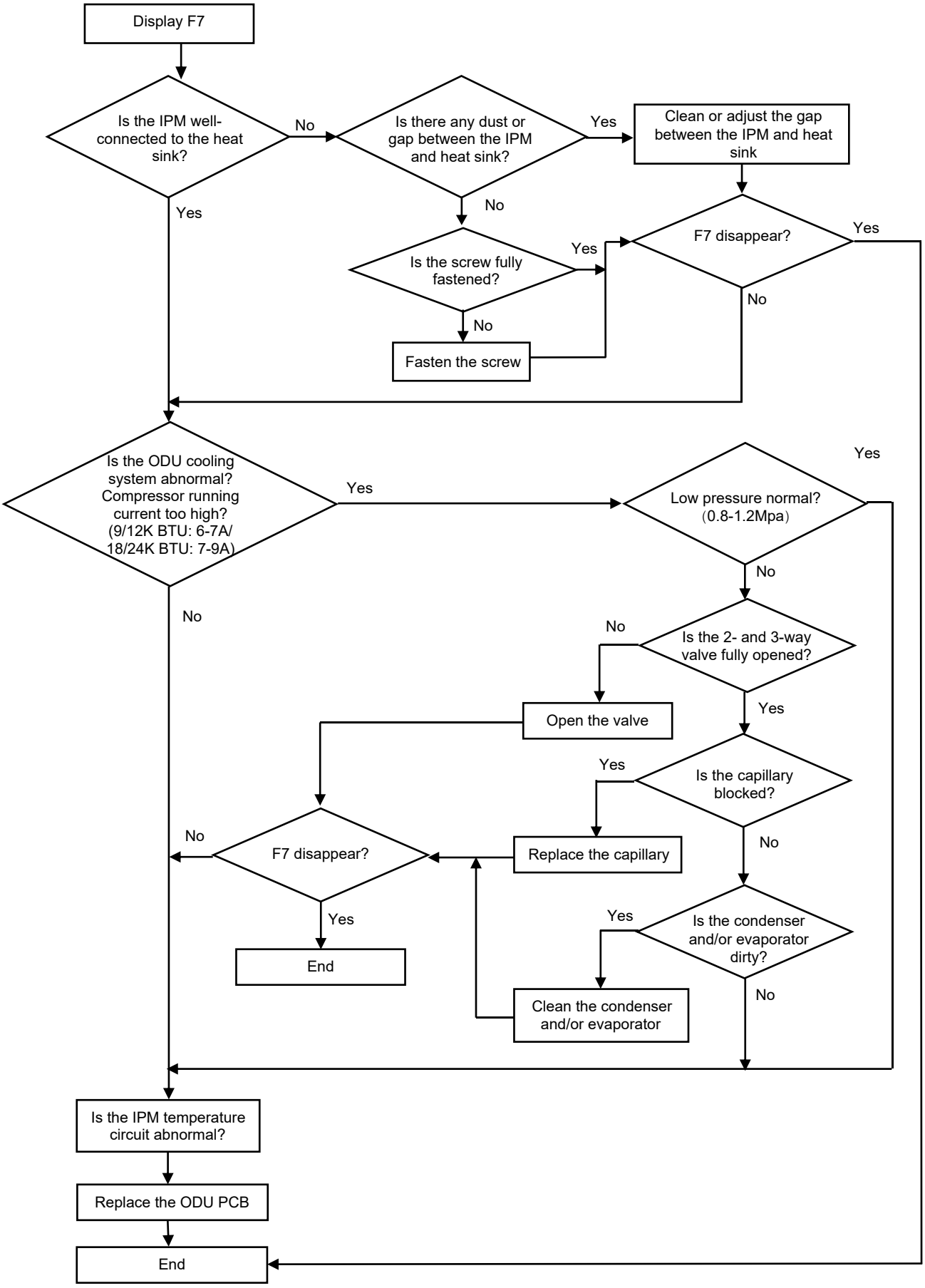
7

F7 Error Code: Outdoor Unit IPM Abnormal Temperature Protection

If the IPM temperature rises above 203°F (95°C), IPM overheat protection activates and the outdoor unit stops. The system displays error code "F7."

Troubleshooting

7

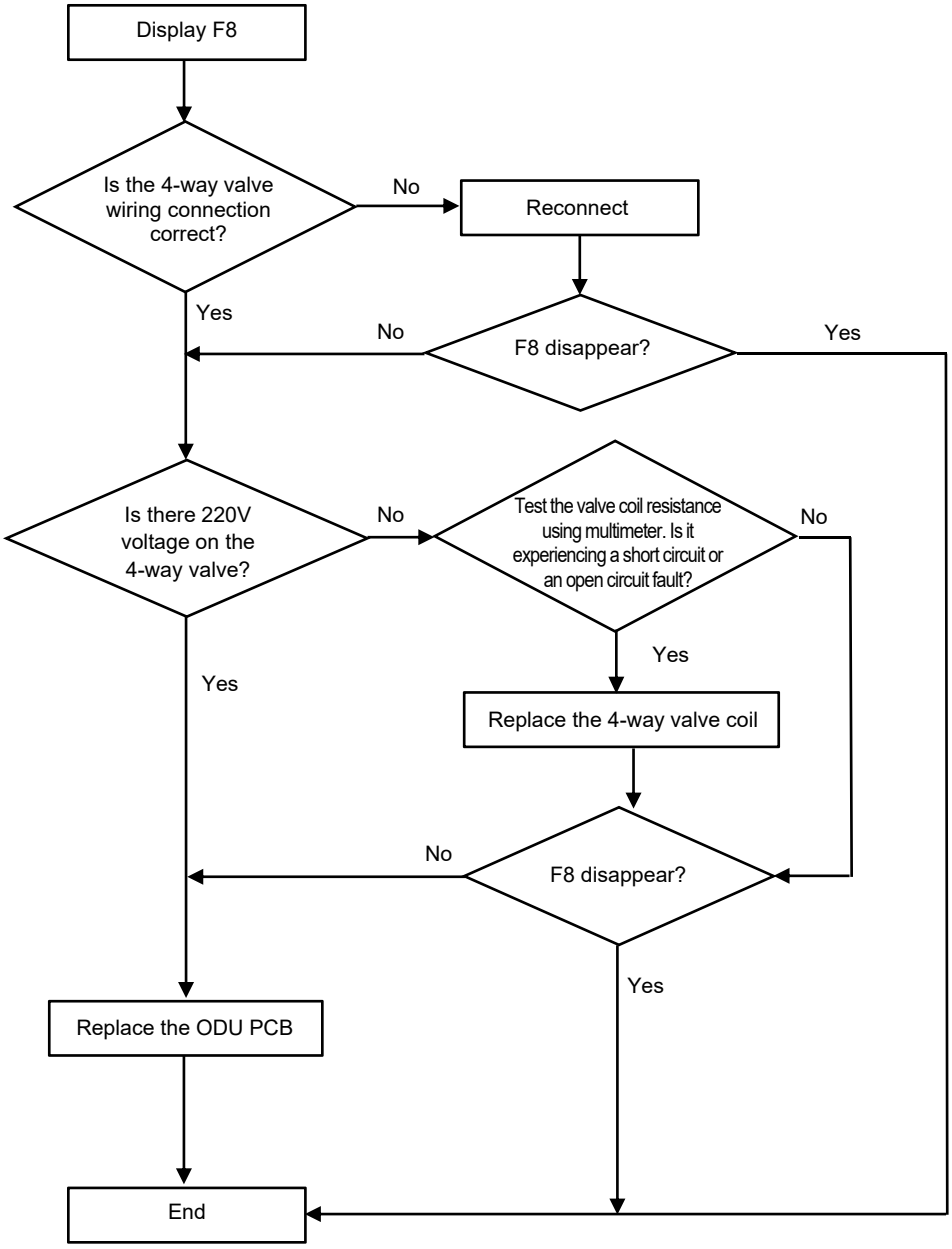


Troubleshooting

7

F8 Error Code: Outdoor Unit 4-Way Valve Reversing Abnormality

In Heating mode, if the IPT is 41°F (5°C) or lower after the compressor has run for 8 minutes, the system displays error code "F8."



Troubleshooting

7

F9 Error Code: Outdoor Unit IPM Temperature Sensor Error

Reason: The IPM module temperature test circuit failure.

Solution: Replace the outdoor unit PCB.

FA Error Code: Outdoor Unit Compressor Phase Current Detection Circuit Failure

Reason: The compressor phase-current test circuit failure.

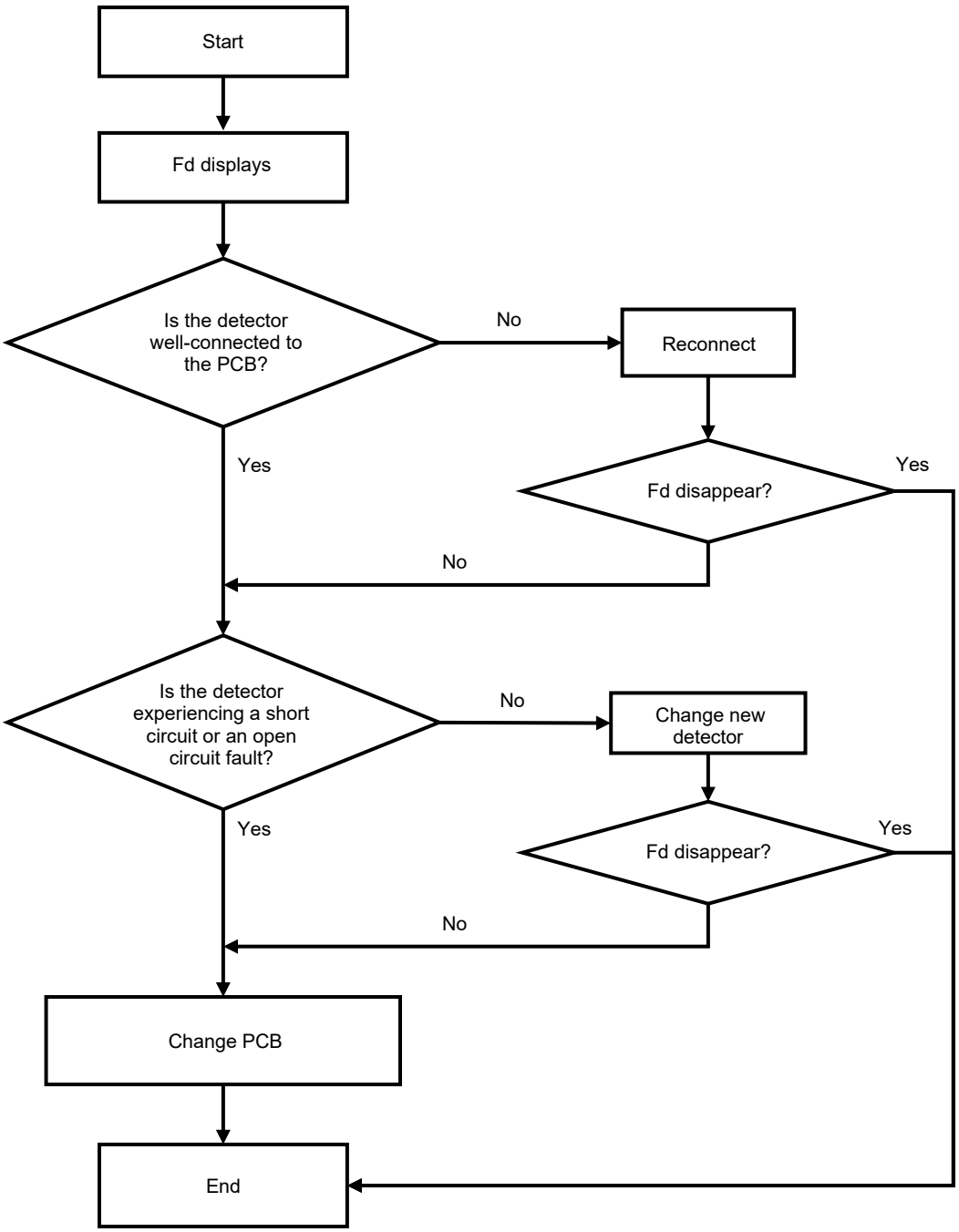
Solution: Replace the outdoor unit PCB.

Troubleshooting

7

Fd Error Code: Refrigerant Leak Sensor Communication Error

If the system detects a refrigerant leak, it displays error code "Fd." Turn off the system immediately and contact a qualified technician to locate the leak.

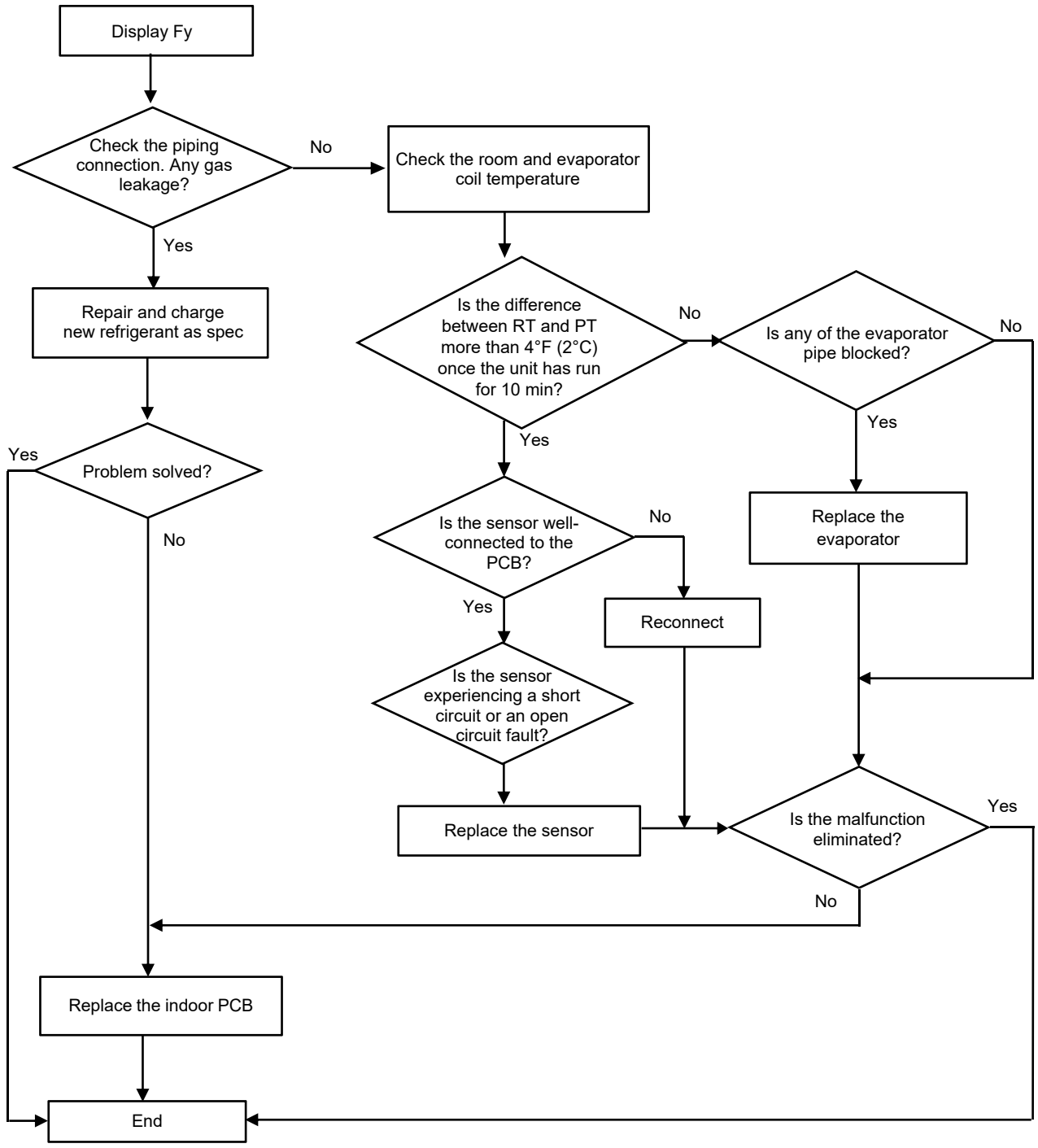


Troubleshooting

7

Fy Error Code: Refrigerant Deficiency Protection

After the compressor has run at high frequency for 9 minutes, if the indoor and outdoor coil temperatures have changed very little from their earlier readings but the compressor discharge temperature stays high, the system displays error code "Fy."

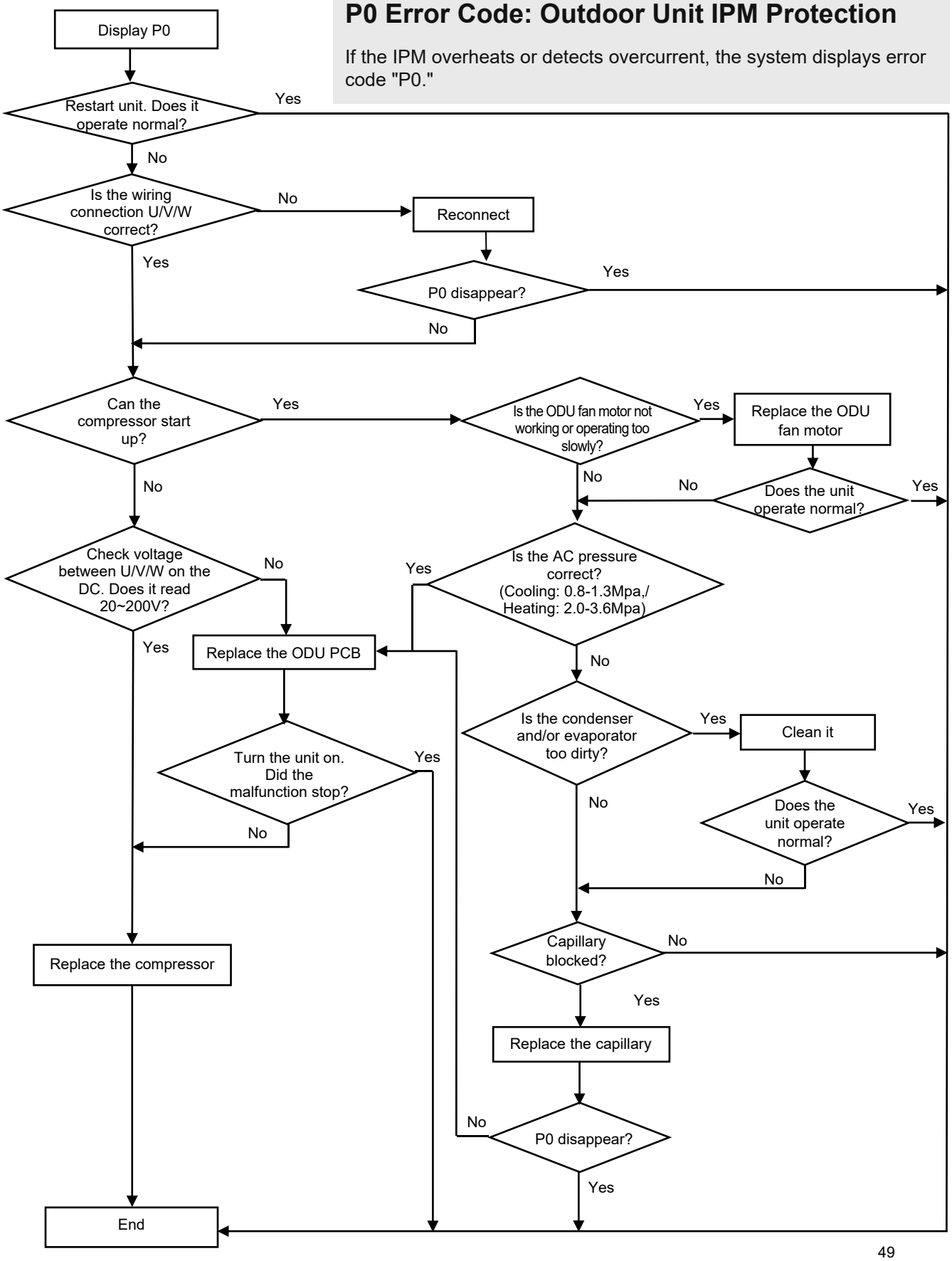


Troubleshooting

7

P0 Error Code: Outdoor Unit IPM Protection

If the IPM overheats or detects overcurrent, the system displays error code "P0."



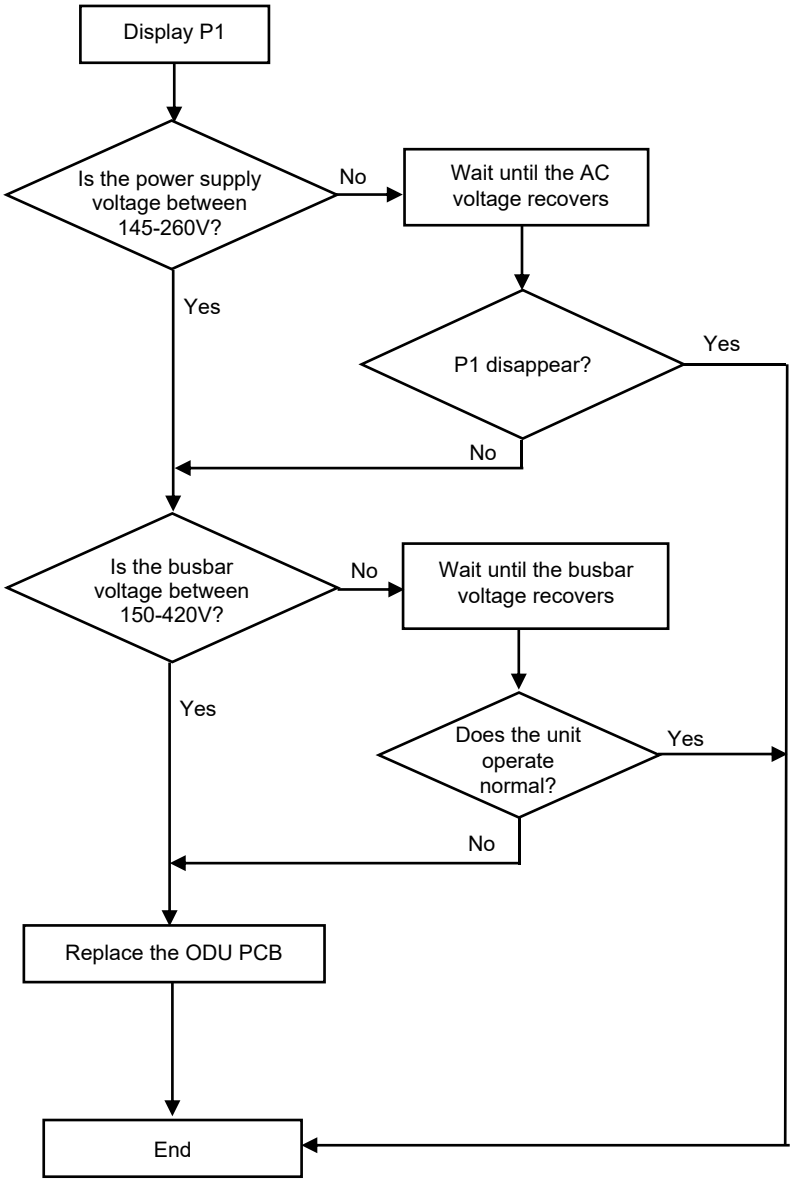
Troubleshooting

7

P1 Error Code: Overvoltage / Undervoltage Protection

1. The system monitors the supply voltage between L and N. If the voltage rises above 260 V AC or drops below 150 V AC, it displays error code "P1." The system returns to its previous operating state when the voltage rises above 155 V AC.

2. The system monitors the DC bus voltage across the large electrolytic capacitor on the outdoor unit PCB. If the voltage rises above 420 V DC or drops below 150 V DC, the system stops displaying error code "P1". The system returns to its previous operating state when the voltage is between 190 V DC and 410 V DC.

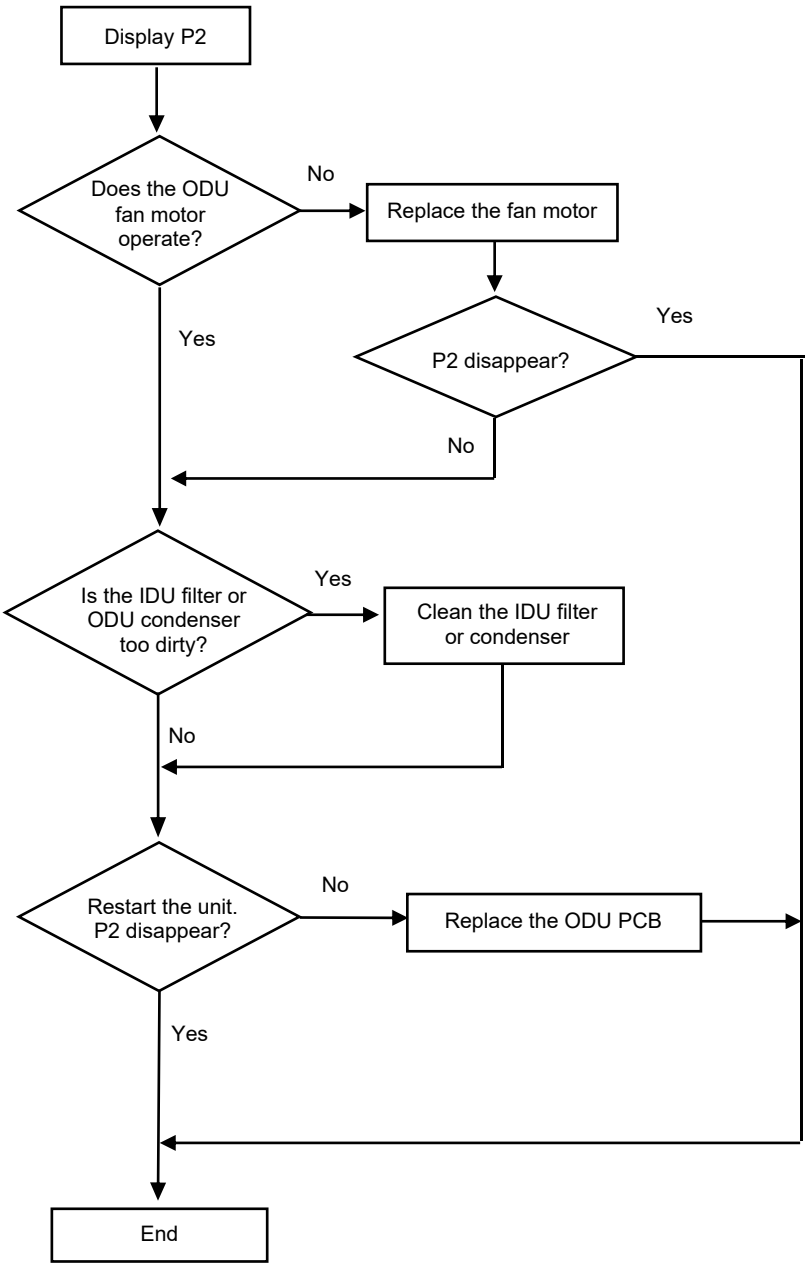


Troubleshooting

7

P2 Error Code: Overcurrent Protection

If the system's operating current exceeds Imax, it stops and displays error code "P2." The Imax value varies by model.



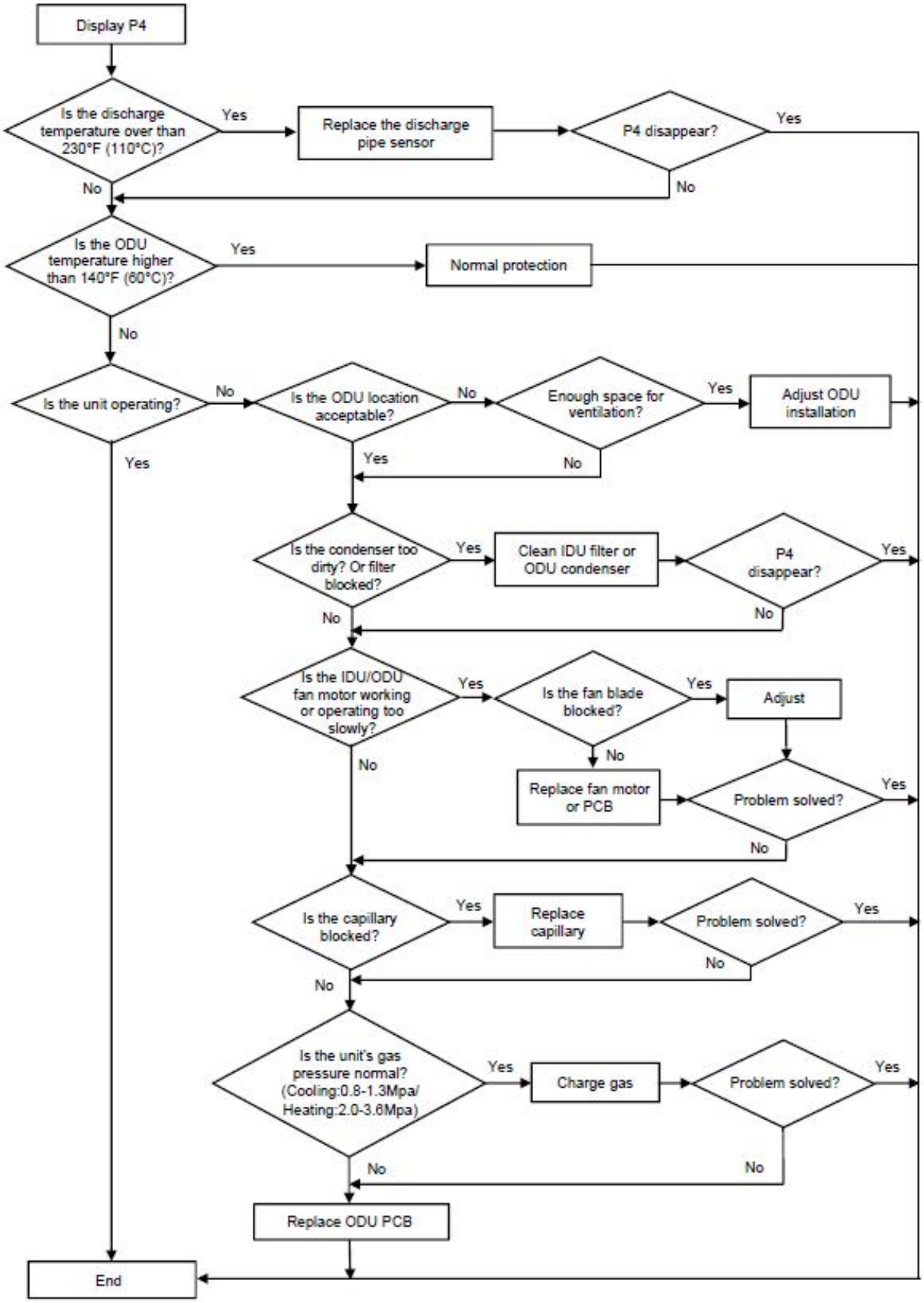
Troubleshooting

7

P4 Error Code: Outdoor Unit High Discharge Temperature Protection

Troubleshooting

7

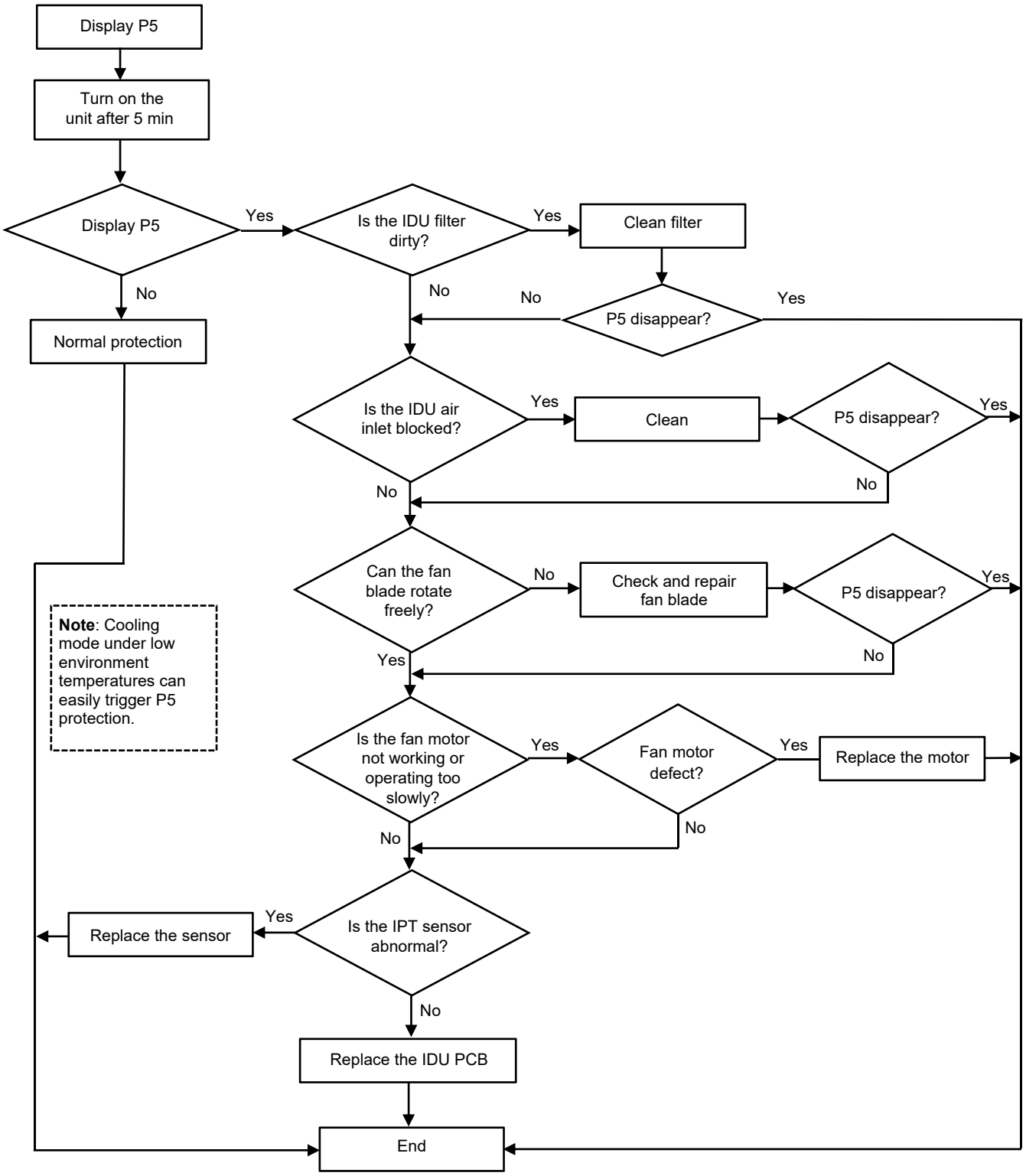


Troubleshooting

7

P5 Error Code: Cooling / Dry Mode Overcooling Protection

In Cooling or Dry mode, after the compressor has run for 6 minutes, if the IPT stays below 34°F (1°C) for 3 consecutive minutes, the outdoor unit stops and the system displays error code "P5."

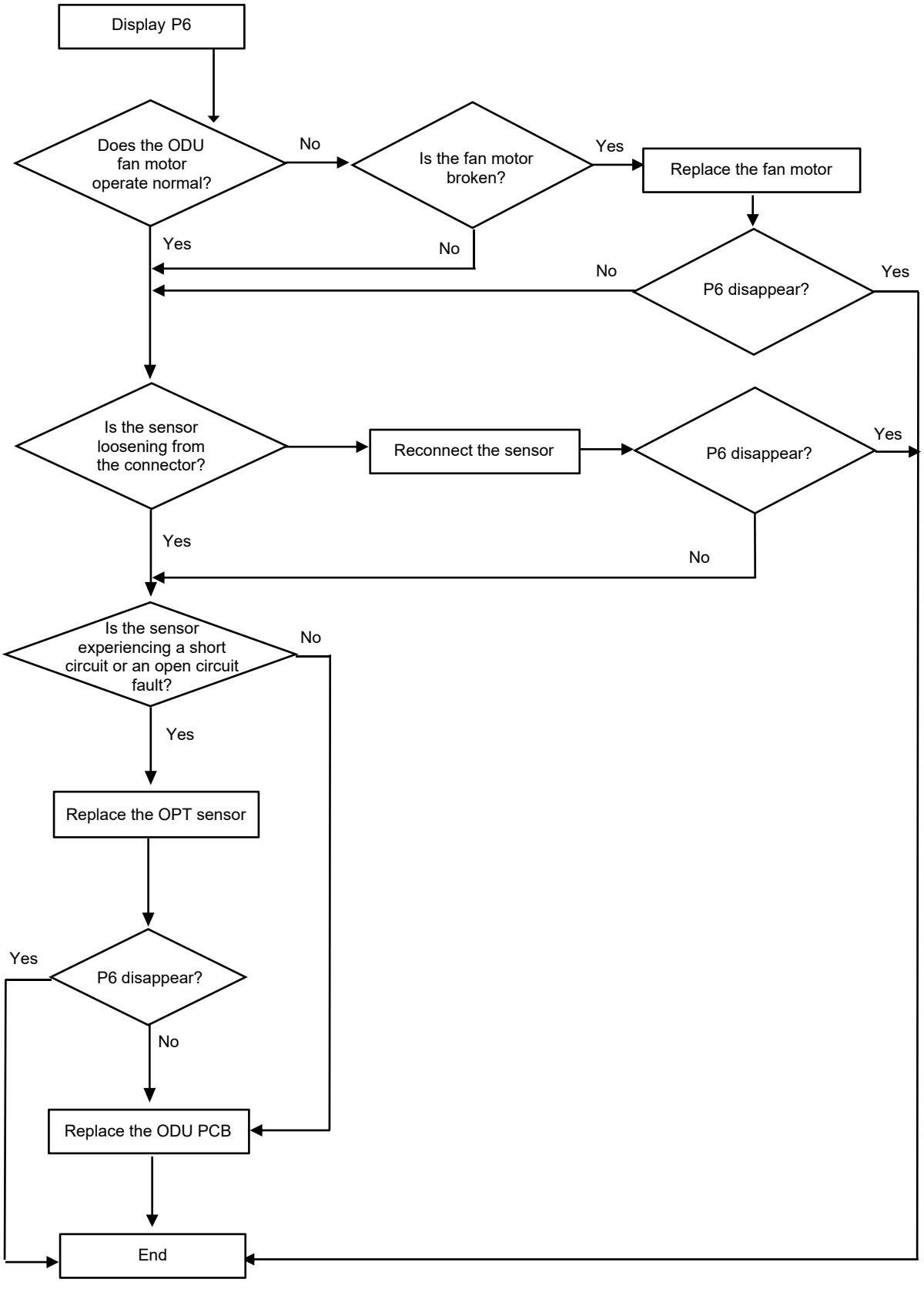


Troubleshooting

7

P6 Error Code: Cooling Mode Overheat Protection

In Cooling or Dry mode, if the outdoor coil temperature reaches 144°F (62°C) or higher, the outdoor unit stops and the system displays error code "P6."

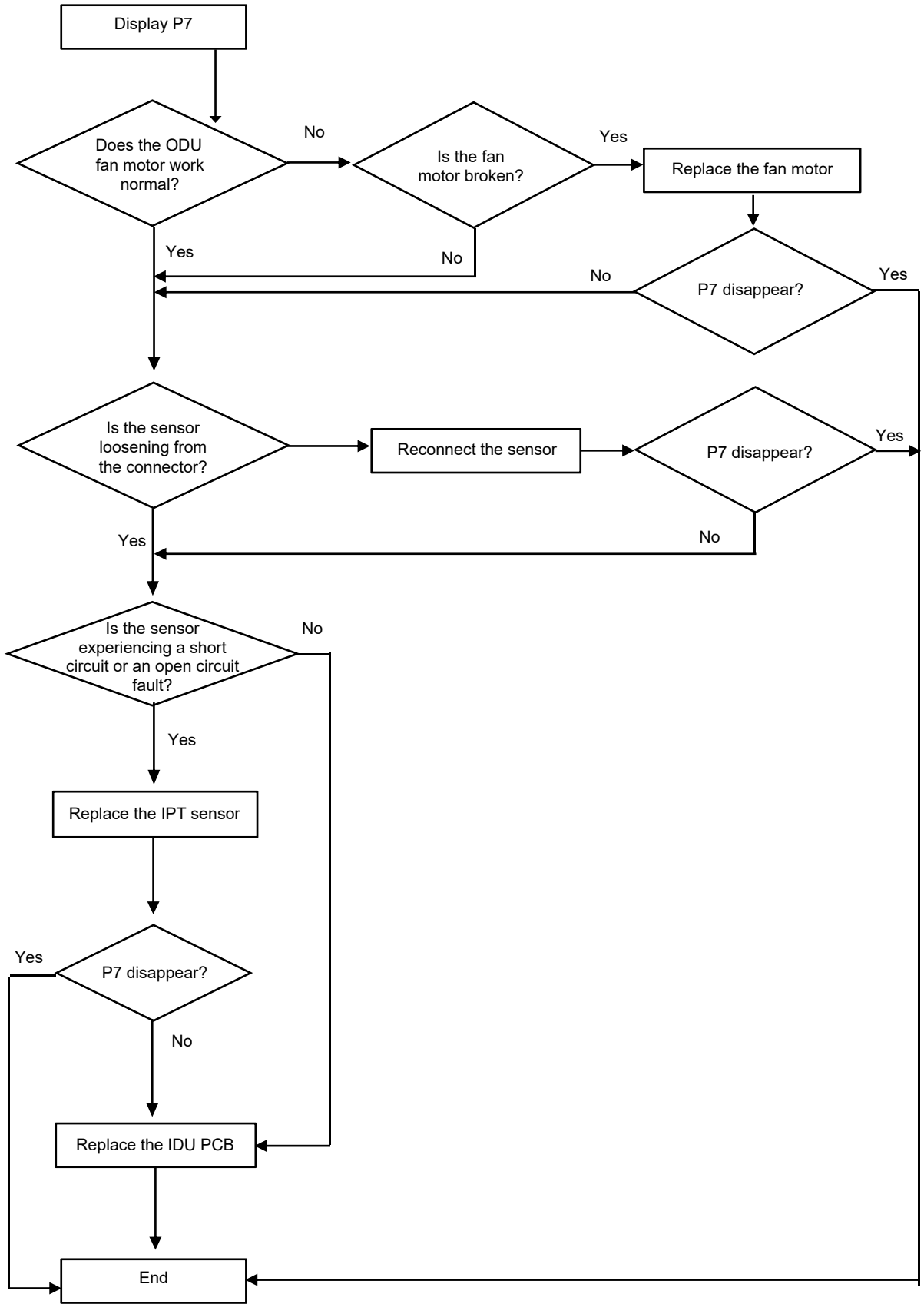


Troubleshooting

7

P7 Error Code: Heating Mode Overheat Protection

In Heating mode, if the IPT reaches 144°F (62°C) or higher, the outdoor unit stops and the system displays error code "P7."



Troubleshooting

7

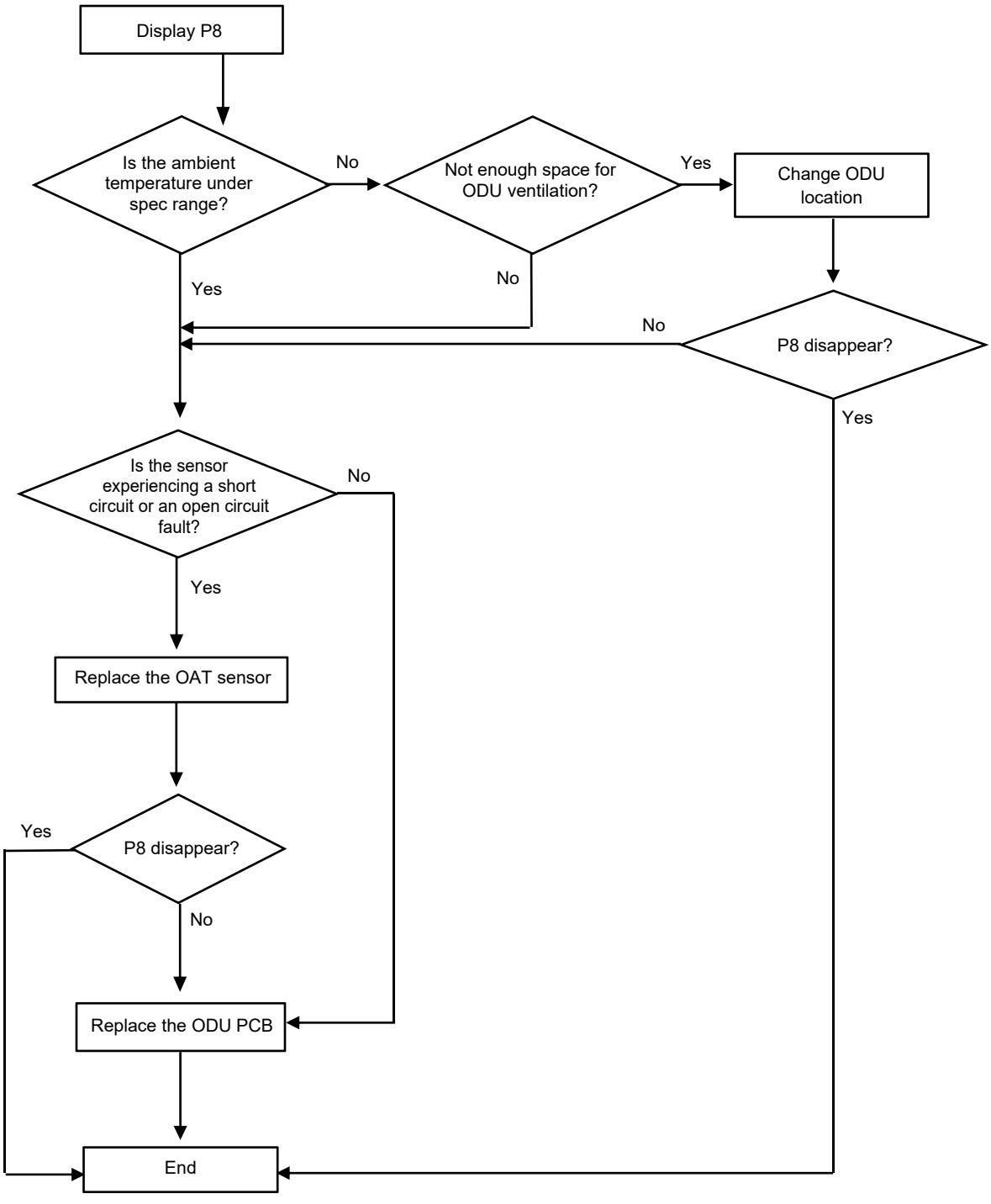
P8 Error Code: Outdoor Ambient High / Low Temperature Protection

If the outdoor ambient temperature goes outside the following range, the compressor stops. After 200 seconds, the system displays error code "P8."

Cooling or Dry mode: Below -4°F (-20°C) or above 145°F (63°C).

Heating Mode:

A. OAT ≥ 104°F (40°C)
B. 86°F (30°C) < OAT ≤ 104°F (40°C) and RT > 95°F (35°C)



Troubleshooting

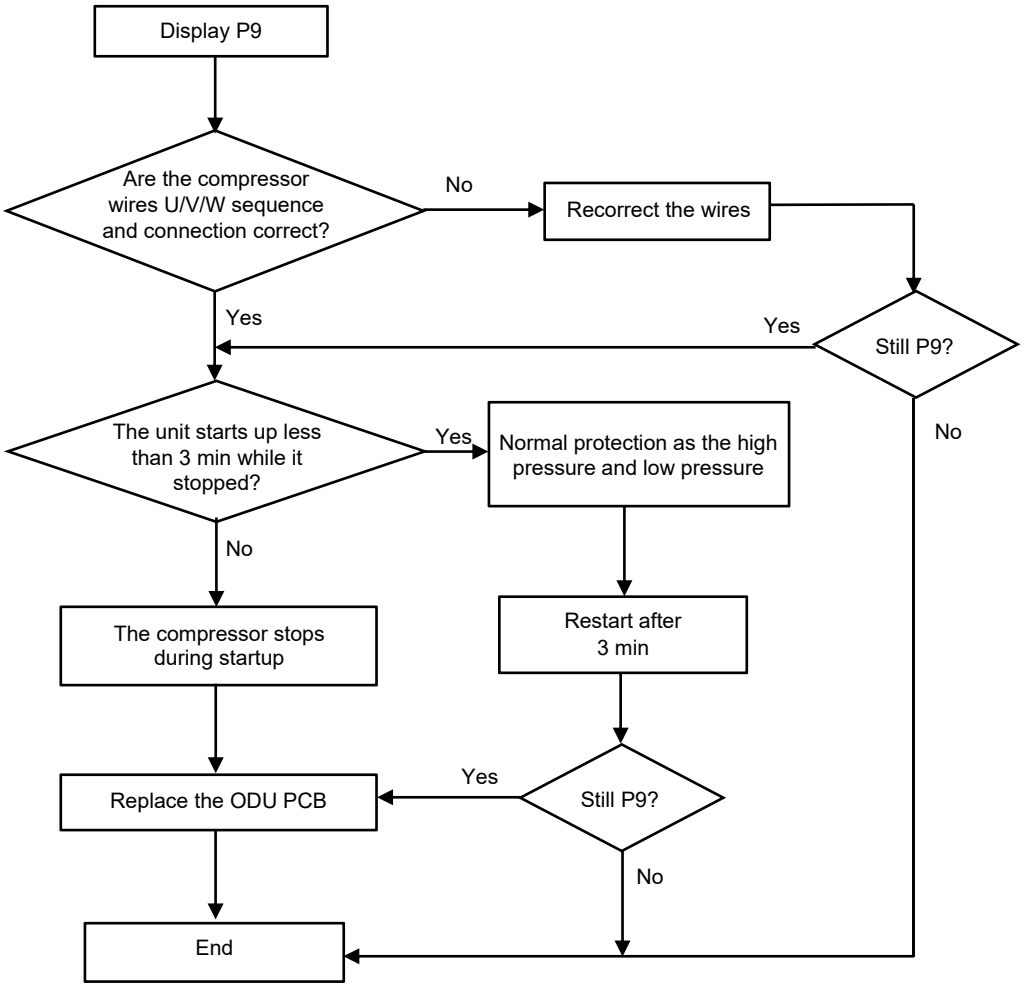
7

P9 Error Code: Outdoor Unit Compressor Drive Overload Protection

If any of the following occurs while the compressor is starting or running, the outdoor unit stops and the system displays error code "P9":

1. The control board does not receive a feedback signal from the compressor.
2. The control board detects an abnormal signal from the compressor.
3. The compressor fails to start normally.

The system then attempts to restart up to six times. If the compressor still does not operate normally, it displays the error code again.



Unit Control

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A. Introduction

Abbreviations

RT: Room Temperature
IPT: Indoor Pipe (Coil) Temperature
ST: Indoor Set Temperature
OPT: Outdoor Pipe Temperature
OAT: Outdoor Ambient Temperature
ODT: Outdoor Discharge Temperature
CRT: Compensated Room Temperature
IDU: Indoor Unit (Air Handler)
ODU: Outdoor Unit (Condenser)

Temperature Variation

The temperature measured at the indoor unit's air inlet may differ from the actual room temperature. Because the temperature sensor is located inside the air inlet rather than in the main area of the room, the unit's control board applies a temperature compensation to make up for this difference.

1. Cooling mode: CRT=RT
2. Heating mode: CRT=RT 27°F (-3°C) - Split AC

B. Operating Modes & Functions

Auto Mode

1. In Auto mode, the temperature can be set from 61°F to 88°F (16°C to 31°C). The fan speed and louver position adjust automatically according to the Auto mode presets.

2. When the indoor unit is set to Auto mode, it automatically selects Cooling, Heating, or Fan mode based on Δt (the difference between the RT and the ST), as shown in the table below.

Mode	Δt = RT-ST
Cooling	Δt > 34°F (1°C)
Fan	30°F (-1°C) ≤ Δt ≤ 34°F (1°C)
Heating	Δt < 30°F (-1°C)

Unit Control

8

Cooling Mode

Temperature Control: In Cooling mode, the temperature can be set between 61°F and 88°F (16°C and 31°C). The fan speed and louver position adjust automatically based on the Cooling mode presets.

Compressor & Unit Control:

- The compressor starts, and the indoor unit operates according to the customer's preset settings when:
  - RT-ST reaches or exceeds 34°F (1°C)

- The compressor stops operating when:
  - RT-ST reaches or falls below 27°F (-3°C) and the compressor keeps operating for 2 minutes continuously.
  - RT-ST reaches or falls below 28°F (-2°C) and the compressor operates in the lowest frequency for 5 minutes continuously.
  - RT-ST reaches or falls below 30°F (-1°C) and the compressor operates in the lowest frequency for 10 minutes continuously.

Compressor Frequency Control:

- Based on the relation of RT and ST and the changing speed of RT.

- The compressor stops operating when the indoor unit is:
  - Switched off
  - Under protection
  - Changed to Fan mode

- During normal operation, the compressor runs for at least 7 minutes before the unit programming stops it.

- During normal operation, once the compressor stops, there is a 3-minute delay before the next procedure begins.

Outdoor Unit Fan Motor Control:

- When the unit is:
  - Switched off
  - Under protection
  - At the set temperature

- After the compressor stops operating, the fan motor also turns off based on the OPT and OAT temperatures. The maximum shutdown delay will not exceed 160 seconds.

- When the indoor unit is turned on in Cooling mode, the outdoor unit's fan motor starts 5 seconds after the compressor.

- If the outdoor unit stops operating due to a fault or safety protection, the indoor unit maintains its preset operation.

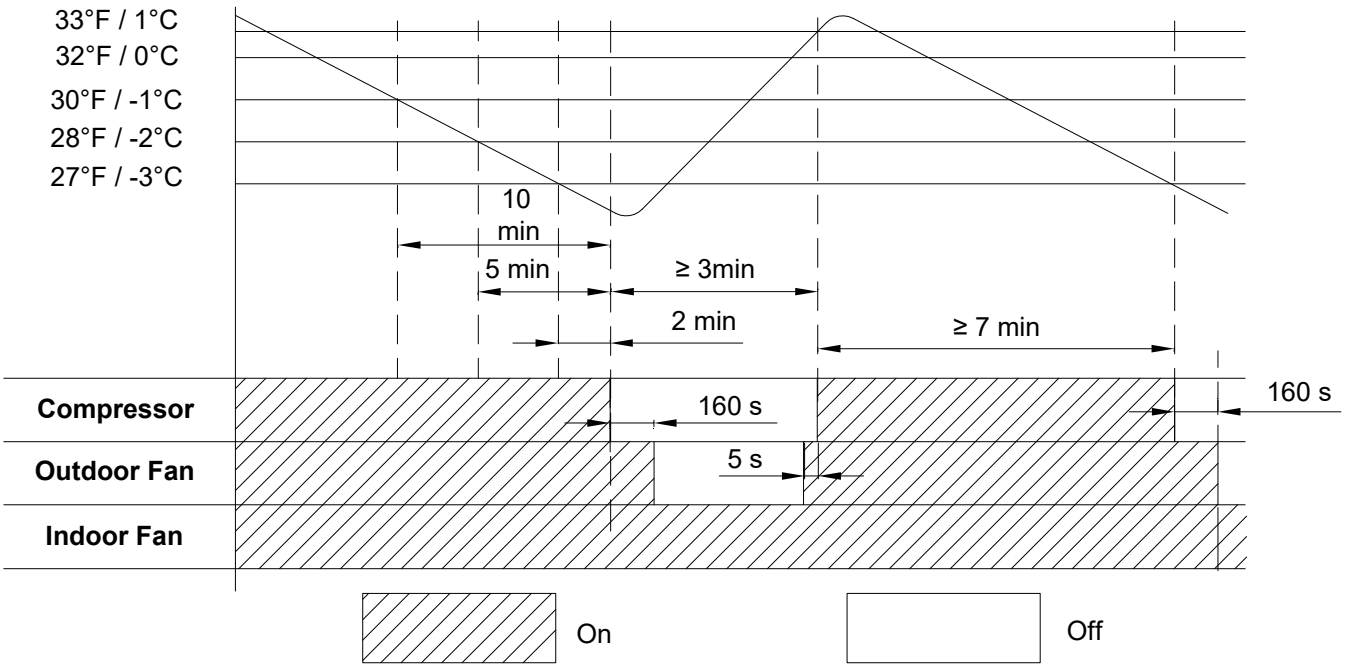
Unit Control

8

Anti-Frosting Protection:

- Control the indoor unit's operating frequency and the rate of frequency change to achieve anti-frost protection.
- Frequency Slowly Increasing (FSI): If the IPT is between 43°F (6°C) and 45°F (7°C), the frequency increases at a rate of 1 Hz per minute, gradually raising the operating speed. Once the IPT reaches or exceeds 45°F (7°C), the indoor unit exits protection mode.
- Frequency Limitation: If the IPT is between 41°F (5°C) and 43°F (6°C), the compressor frequency is prevented from increasing.
- Normal Frequency Decreasing (NFD): If the IPT is between 37°F (3°C) and 39°F (4°C), the frequency decreases by 8 Hz every 90 seconds until it reaches the lower limit.
- Fast Frequency Decreasing (FFD): If the IPT is between 36°F (2°C) and 37°F (3°C), the frequency decreases by 16 Hz every 90 seconds until it reaches the lower limit.
- The indoor unit shuts down if the IPT remains below 34°F (1°C) for 3 continuous minutes. The indoor unit restarts when the IPT exceeds 43°F (6°C) and the compressor has been shut down for at least 3 minutes.

RT-ST



Unit Control

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Dry Mode

Temperature Control: 61-88°F (16-31°C)

Fan Speed: Low

Vane Blade Position: The customer's preset

Failure Protection: Cooling mode

Energy Saving & Sleep Mode: Invalid

- If the outdoor unit fails or enters protection mode, the indoor unit will continue to operate according to its preset configuration.

Heating Mode

Temperature Control: 61-88°F (16-31°C)

Compressor & Unit Control:

- The compressor starts, and the indoor unit operates according to the customer's preset settings when:
  - ST-CRT reaches or exceeds 33°F (1°C).
- The compressor stops operating when:
  - ST-CRT reaches or falls below 27°F (-3°C) and the compressor keeps operating for 2 minutes continuously.
  - ST-CRT reaches or falls below 28°F (-2°C) and the compressor operates in the lowest frequency for 5 minutes continuously.
  - ST-CRT reaches or falls below 30°F (-1°C) and the compressor operates in the lowest frequency for 10 minutes continuously.

Compressor Frequency Control:

- The compressor frequency control is based on the relation of RT and ST and the changing speed of RT.
- The compressor stops operating when the indoor unit is:
  - Switched off
  - Under protection
  - Changed to Fan mode
- Once started, the compressor runs for at least 7 minutes before it can stop, whether during normal operation (cooling or heating) or because of an error code.
- During normal operation, once the compressor stops, it waits at least 3 minutes before restarting.

Indoor Unit Time Delay:

- In Heating mode, when the compressor stops or the unit is switched off, the indoor unit's fan motor continues to run for a few seconds to dissipate residual heat and prevent overheating.

Unit Control

8

Outdoor Unit Fan Motor Control:

- When the unit is:
  - Switched off
  - Under protection
  - At the set temperature

- When the compressor stops, the outdoor fan motor shuts off after a delay determined by the OPT and OAT. This delay can last up to 160 seconds.

- In Heating mode, the outdoor unit's fan motor starts 5 seconds after the compressor starts.

- During the defrost cycle, the outdoor fan motor starts 48 seconds after the compressor stops.

- When the defrost cycle ends, the compressor turns off, and the outdoor fan motor starts at the same time.

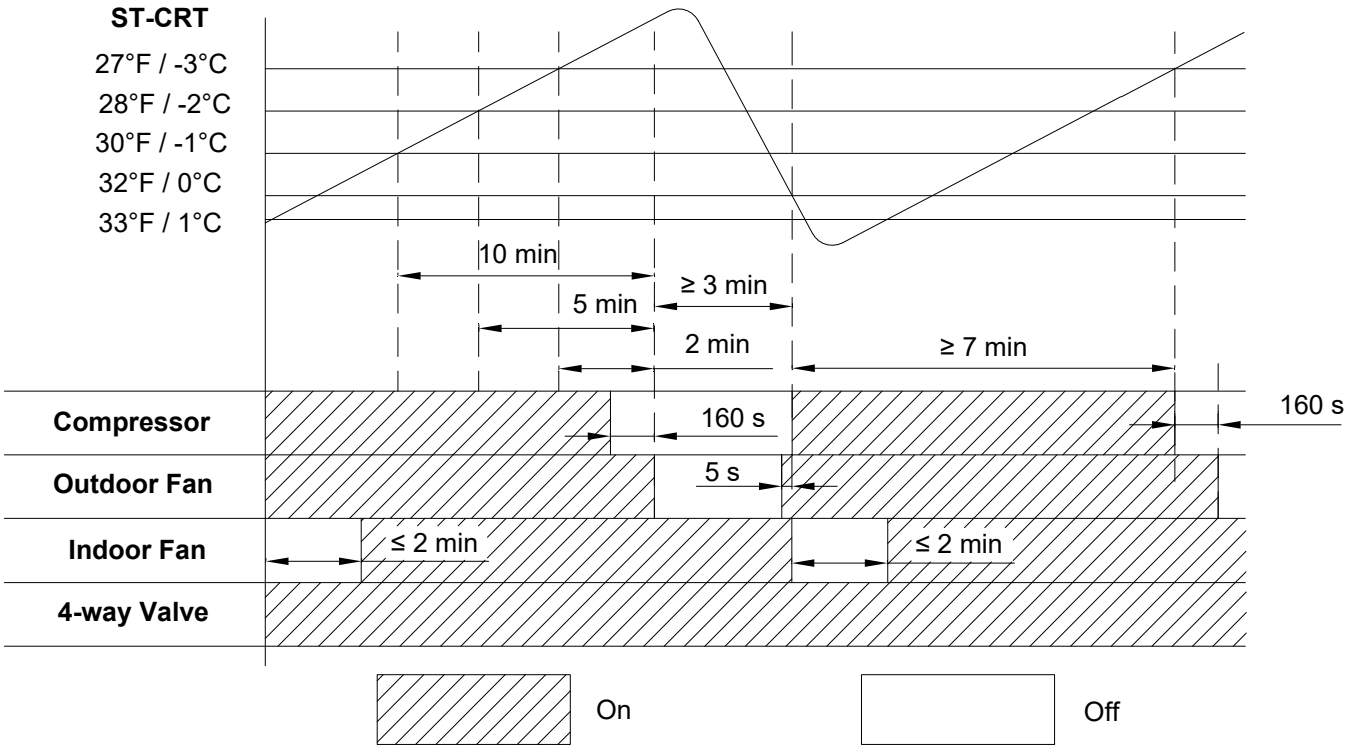
4-Way Valve Control:

- In Cooling, Dry, or Fan mode, the 4-way valve is de-energized. When the indoor unit switches to Heating mode, the 4-way valve is energized.

- When Heating mode is turned off or switched to another mode, the 4-way valve turns off 2 minutes after the compressor stops.

- If the indoor unit stops because a protection function is triggered, the 4-way valve turns off for 4 minutes, then turns back on.

- During the defrost cycle, the 4-way valve is de-energized 43 seconds after the compressor stops. When the defrost cycle ends, the compressor stops, and the 4-way valve is energized 43 seconds later.



Unit Control

8

Defrosting:

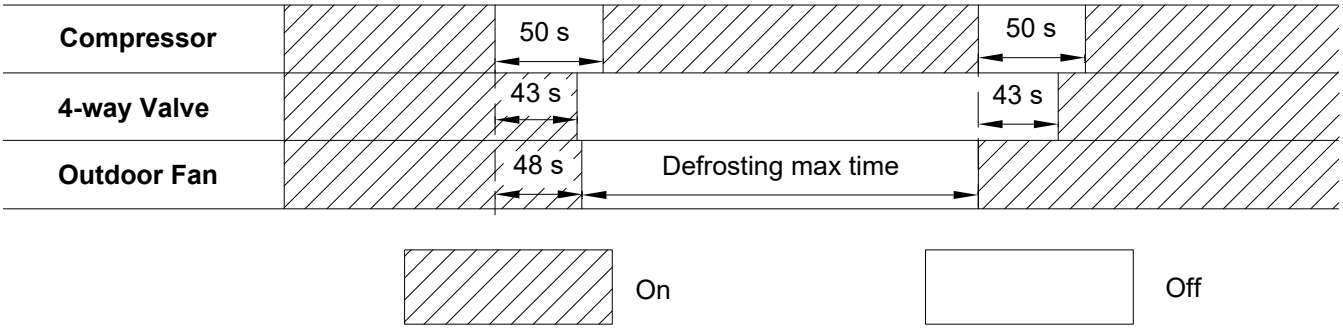
When the unit operates to:

t1: The compressor continuous operation time.
t2: Unit operation first time going to defrost cycle.
t3: The compressor accumulated operation time. When the OPT reaches or falls below 37°F (3°C), the unit starts to count the time for t3.

The defrost cycle begins when the OPT and OAT readings meet the defrost conditions for 3 consecutive minutes.

A. t1 ≥ t2 or
B. t3 ≤ t1 < t2

- Defrost termination conditions:
  - The defrosting cycle has run for at least 60 seconds and the OAT reaches or exceeds 54°F (12°C).
  - The OAT is below 23°F (-5°C) and the OPT remains between 7°F and 46°F (-14°C to 8°C) continuously for 80 seconds.
  - The defrosting process reaches its maximum duration of 10 minutes.



- When the defrost cycle ends, the compressor stops and restarts after 50 seconds.

Cold Air Prevention: This function prevents cold air discharge during Heating mode.

- Indoor unit fan motor for cold air prevention:
  - When the RT is below 75°F (24°C):
    - If the ITP exceeds 88°F (31°C) while the compressor operates for 5 minutes, the fan motor will run at the preset fan speed.
    - If the IPT reaches or falls below 88°F (31°C), the fan motor stops during the first 2 minutes of compressor operation.
    - If the IPT reaches or exceeds 81°F (27°C), the fan motor operates at low speed for 2 minutes before switching to the preset speed.
  - When the RT reaches or exceeds 75°F (24°C):
    - Within 2 minutes after the compressor starts, and once the IPT exceeds 81°F (27°C), the fan motor switches to the preset speed.
    - After the compressor has run for 2 minutes, the fan motor switches directly to the preset speed.

Unit Control

8

- Vane blade operation for cold air prevention:
    - If the vane blade is in non-swing mode when the IPT reaches a specific threshold, the vane will shift to one of the following positions below:
        - Default angle
        - Previous position
        - Customer preset
    - The operation described above runs only once per compressor cycle. After the compressor stops, the unit checks the operating conditions again.
    - If the vane is in swing mode when the indoor unit exits cold air prevention, the vane will operate according to its preset settings.

46°F (8°C) Heating Function:

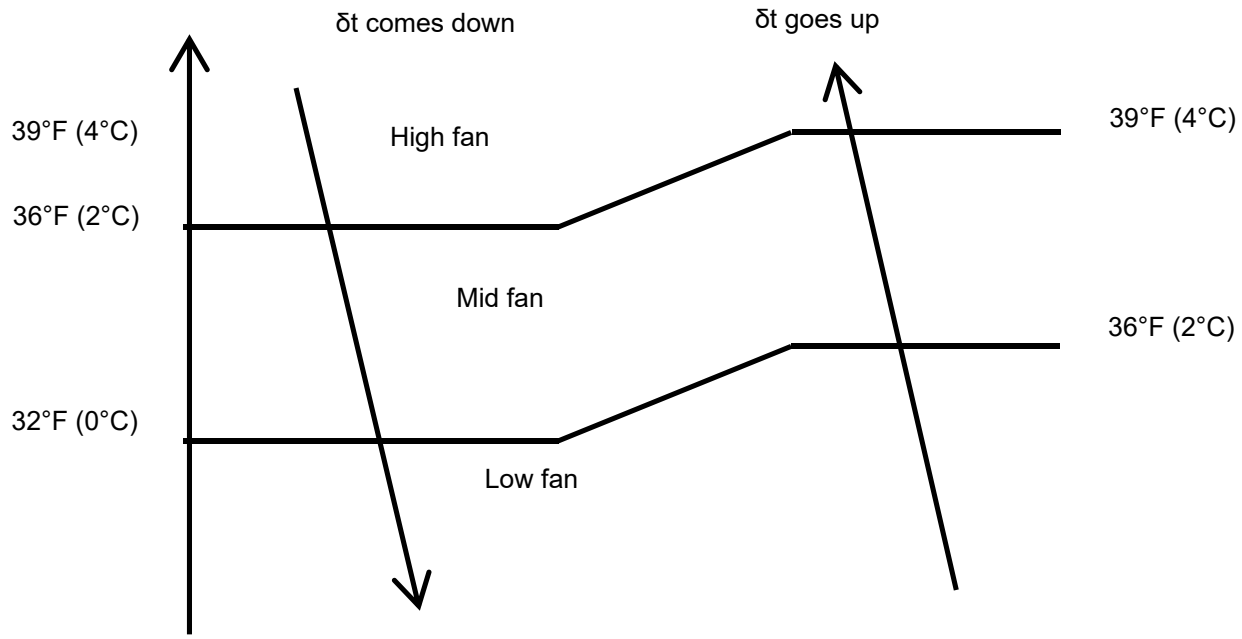
When this function is enabled, the indoor unit automatically switches to Heating mode if the room temperature drops below 46°F (8°C).

Fan Mode

Temperature Control: 61-88°F (16-31°C)

Fan Speed & Vane Position: Maintained at preset levels. This function applies exclusively to remote controller 58E.

- When the fan speed is set to Auto, the indoor fan motor adjusts its speed based on the difference between the room temperature and the set temperature.
- The outdoor unit is always off.



Unit Control

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Sleep Mode

When the indoor unit operates in Sleep mode, the power and Sleep indicator lights remain on by default, and the temperature display turns off after 15 seconds. In this mode, the indoor unit follows the preset Sleep Curve for 10 hours. It then exits Sleep mode and returns to its previously selected settings.

Timer

The unit features a timer function. When the preset time is reached, the unit automatically turns on or off. If no selection is made within 10 seconds while setting the timer, the unit exits timer setup without saving.

Timer On

1. The Timer On function can only be configured while the indoor unit is turned off.
2. Press "Timer" on the remote control once to enter the time settings.
3. Press “▲” or “▼” to set the start time for the indoor unit.
4. Configure other functions, such as Mode, Fan Speed, and Swing.
5. Press "Timer" again to confirm the Time On setting.

Timer Off

1. The Timer Off function can only be configured while the indoor unit is turned on.
2. Press "Timer" on the remote control once to enter the time settings.
3. Press “▲” or “▼” to set the start time for the indoor unit.
4. Press "Timer" again to confirm the Time Off setting.

Auto-Restart Function

While the system is operating, the main control board saves the current settings, such as the operating mode and set temperature, to its memory. When power is restored after a power failure, the Auto-Restart function automatically resumes operation with the previous settings.

To activate the Auto-Restart function, turn on the unit, and within 3 minutes, set the mode to Cooling, the temperature to 86°F (30°C), and the fan speed to Medium. Then press the ECO or SLEEP button 10 times within 8 seconds.

Calibration Test Mode

Set the unit to the following:

- Cooling mode
- Temperature: 86°F (30°C)
- Mid-fan speed

To switch the unit to Calibration Test mode, press the ECO button 7 times within 8 seconds. The buzzer sounds 3 times to confirm.

Unit Control

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Energy Saving (ECO)

This function is available only in Cooling or Heating mode. In Cooling mode, the set temperature range is 79–88°F (26–31°C). In Heating mode, the set temperature range is 61–77°F (16–25°C).

Turbo

This function is available in Cooling, Heating, Fan, and Auto modes. When it is active, the fan runs at its highest speed.

Communication Control

If the outdoor unit's control board does not receive a signal from the indoor unit for 2 consecutive minutes, the system stops and displays error code E0, indicating a communication failure between the indoor and outdoor units. Once communication is restored and the compressor has been off for at least 3 minutes, the system automatically resumes operation.

Unit Control

8

C. Protection

Compressor Discharge Temperature Protection

- The unit shuts down for over-temperature protection if the ODT reaches or exceeds 239°F (115°C).
- The unit can be restarted when the ODT is below 212°F (100°C) and the compressor has been off for 3 minutes.
- The unit limits compressor frequency to prevent overload when the ODT reaches or exceeds 212°F (100°C).
- Over-Temperature Protection Logic:
    - Unit Lockout: If the unit enters over-temperature protection six consecutive times, it will lock out and display a failure code. Press the On/Off button to recover.
    - Automatic Counter Reset: The over-temperature counter resets to zero if the compressor runs continuously for more than 6 minutes.
    - Immediate Clearance: Turning the unit off or changing the mode to Fan will immediately clear the failure code and reset the protection counter. If the failure cannot be resolved, it will persist even if the operation mode is changed.

Current Protection

- The compressor frequency will be limited or reduced for over-current protection if the unit's operating current exceeds its current limit.
- The unit will shut down if the operating current exceeds the safety threshold. A 3-minute compressor delay is required before system recovery.
- Overcurrent Protection Logic:
    - Unit Lockout: If the unit triggers overcurrent protection six consecutive times, it will lock out. Press the On/Off button to reset the unit.
    - Automatic Counter Reset: The overcurrent counter resets to zero if the compressor runs continuously for more than 6 minutes.

IPM Over-Heating Protection

- The compressor frequency will be limited or reduced for IPM over-heating protection if the IPM temperature reaches or exceeds 189°F (87°C).
- The unit stops operating for protection if the temperature reaches or exceeds 203°F (95°C).
- The unit can be restarted if the temperature falls below 189°F (87°C) and the compressor stops for 3 minutes.
- Over-Heating Protection Logic:
    - Unit Lockout: If the unit enters IPM over-heating protection six consecutive times, it will lock out and display a failure code. Press the On/Off button to recover.
    - Automatic Counter Reset: The IPM over-heating counter resets to zero if the compressor runs continuously for more than 6 minutes.
    - Immediate Clearance: Turning the unit off or changing the mode to Fan will immediately clear the failure code and reset the protection counter. If the failure cannot be resolved, it will persist even if the operation mode is changed.

Unit Control

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Overload Protection for Heating Mode

- The unit shuts down for overload protection if the IPT reaches or exceeds 144°F (62°C).
- The unit can be restarted when the IPT is below 131°F (55°C) and the compressor has been off for 3 minutes.
- The unit limits compressor frequency to prevent overload when the IPT reaches or exceeds 131°F (55°C).
- Overload Protection Logic:
    - Unit Lockout: If the unit enters overload protection six consecutive times, it will lock out and display a failure code. Press the On/Off button to recover.
    - Automatic Counter Reset: The overload counter resets to zero if the compressor runs continuously for more than 6 minutes.
    - Immediate Clearance: Turning the unit off or changing the mode to Fan or Cooling will immediately clear the failure code and reset the protection counter. If the failure cannot be resolved, it will persist even if the operation mode is changed.

Overload Protection for Cooling or Dry Mode

- The unit shuts down for overload protection if the OPT reaches or exceeds 144°F (62°C).
- The unit can be restarted when the OPT is below 131°F (55°C) and the compressor has been off for 3 minutes.
- The unit limits compressor frequency to prevent overload when the OPT reaches or exceeds 131°F (55°C).
- Overload Protection Logic:
    - Unit Lockout: If the unit enters overload protection six consecutive times, it will lock out and display a failure code. Press the On/Off button to recover.
    - Automatic Counter Reset: The overload counter resets to zero if the compressor runs continuously for more than 6 minutes.
    - Immediate Clearance: Turning the unit off or changing the mode to Fan or Heating will immediately clear the failure code and reset the protection counter. If the failure cannot be resolved, it will persist even if the operation mode is changed.

Remote Control

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Notes

- Although button shapes and positions vary by model, their features and functions remain identical.
- The display and functional features of the remote controller may vary depending upon the specific system model.
- The unit beeps to confirm each button command.
- There may be a difference between the number of digits shown on the remote control (3) and the number on the indoor unit (2).

Remote Control

9

Remote Buttons Overview

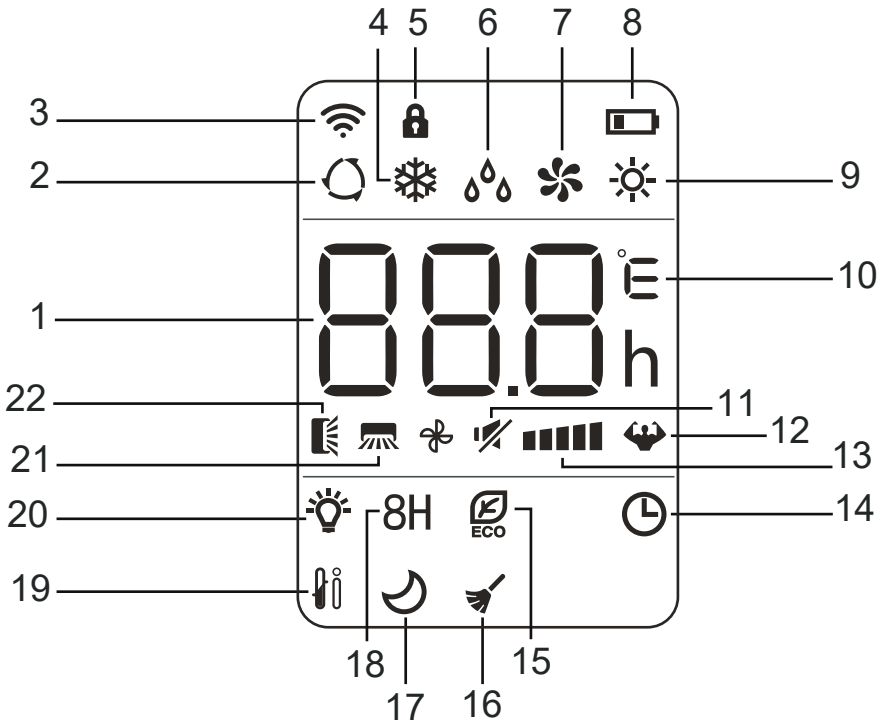
Button	Description
⏻	Turn the air conditioner on or off
TURBO	Activate/deactivate the Turbo feature to allow the system to rapidly reach set temperatures
MUTE	Put the system into Silent mode
MODE	Select the mode of operation (Auto, Cool, Dry, Fan, and Heat modes)
ECO	Activate/deactivate the ECO feature
	Long press to activate the 46°F “Away from Home” freeze protection setting
TIMER	Configure the automatic on/off times
∧	Increase set temperature and timing, as well as navigate the functional menu
∨	Decrease set temperature and timing, as well as navigate the functional menu
FAN	Configure the fan speed (Auto, Low, Mid, and High)
	Activate/deactivate the up-down louver motor
	Activate/deactivate the left-right louver motor
DISPLAY	Turn the LED display on or off
SLEEP	Toggle the system’s Sleep mode
I FEEL	Activate/deactivate the system’s Follow Me mode
MEMORY	Recall saved temperature/mode/fan settings
CLEAN	Activate/deactivate Self-Clean mode
ACC	Reserved for future usage
[LOCK]	Hold MODE+TIMER for child-lock



Remote Control

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Remote Control LED Screen & Icons



No.	Icon	Description
1	88	Temperature indicator
2		Auto mode
3		Signal transmit indicator
4		Cooling mode
5		Child lock indicator
6		Dry mode
7		Fan Only mode
8		Battery level indicator
9		Heating mode
10		Unit of temperature (°C/°F)
11		Mute function

No.	Icon	Description
12		Turbo mode
13		Fan speed (Auto or Fixed)
14		Timer active indicator
15	ECO	ECO mode
16		Self-Clean function
17		Sleep function
18	8H	8°C (46°F) Heating function
19		I Feel/Follow Me mode
20		LED display on/off
21		Left-Right swing indicator
22		Up-Down swing indicator

Emergency Manual Button

10

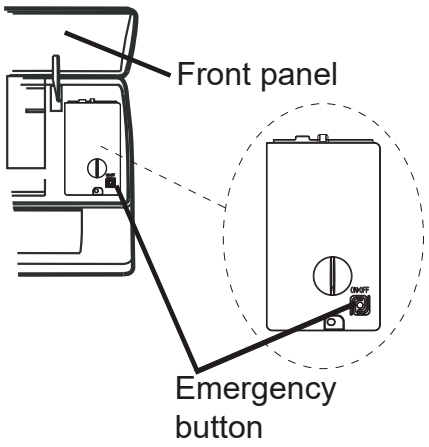
Emergency Manual Button

The emergency button on the front of the indoor unit can be used for a function test if the remote controller is malfunctioning or the batteries have lost power. Do not press the emergency switch during normal operation.

The following are available functions using the Emergency manual button:

- First press: Activates Cooling mode.
- Second press (within 3 seconds): Activates Heating mode.
- Third press: Turns the system off.

The emergency button is under the front panel, on the unit's terminal block cover.



If the remote controller fails to operate the system, follow these steps:

1. Open and lift the front panel at an angle to access the emergency button.

2. Press the manual button once to start the unit in Cooling mode.

3. Press the button again within 3 seconds to start the unit in Heating mode.

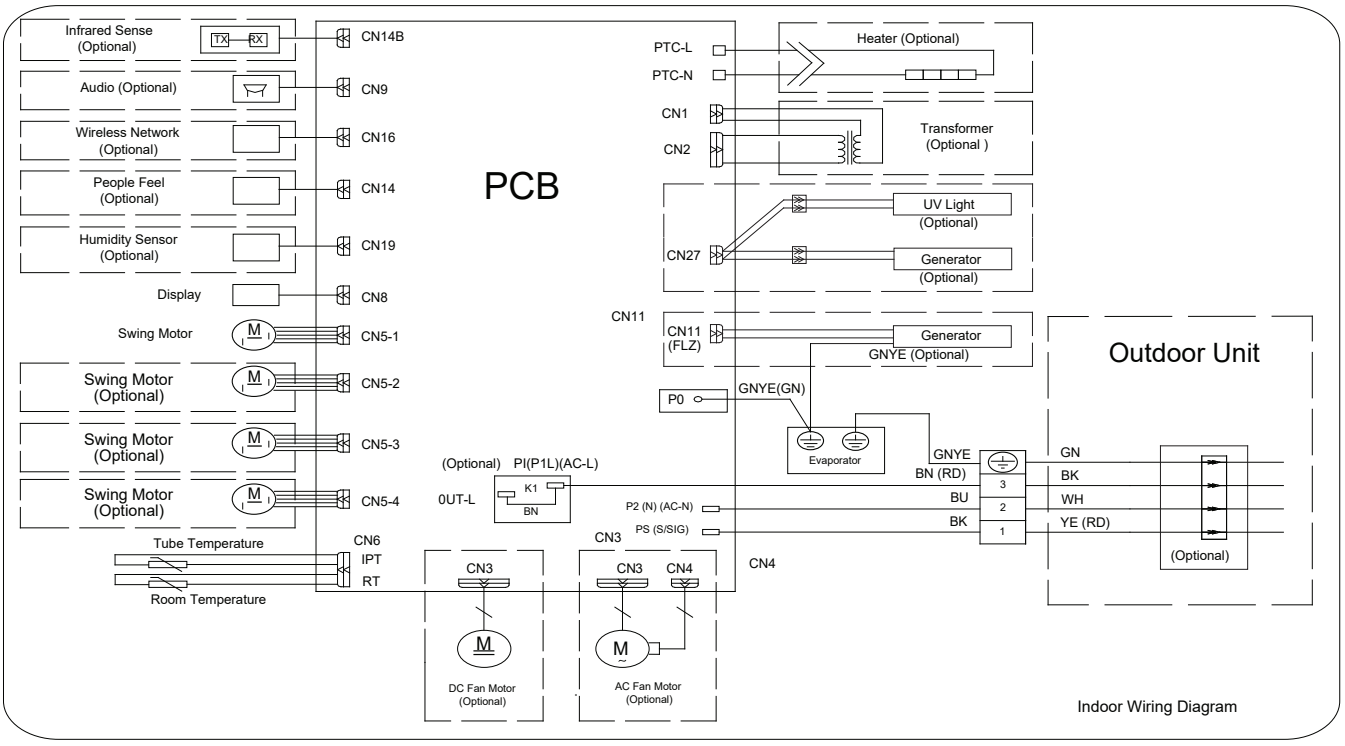
4. Press the button a third time within 5 seconds to turn off the unit.

Wiring Diagrams

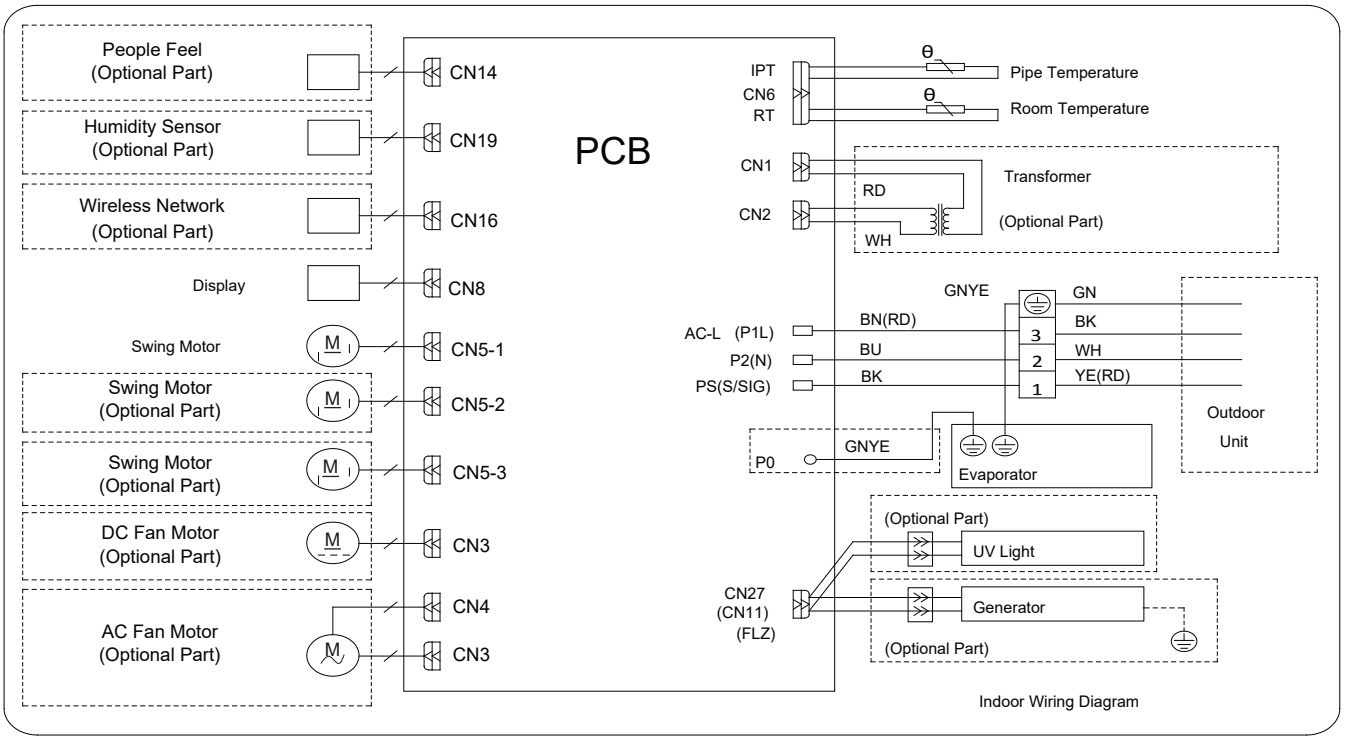
11

Control Board Wiring Diagrams

Indoor Units: WT012ALUI17HLD | WT012GLUI17HLD | WT018GLUI17HLD | WT024GLUI17HLD



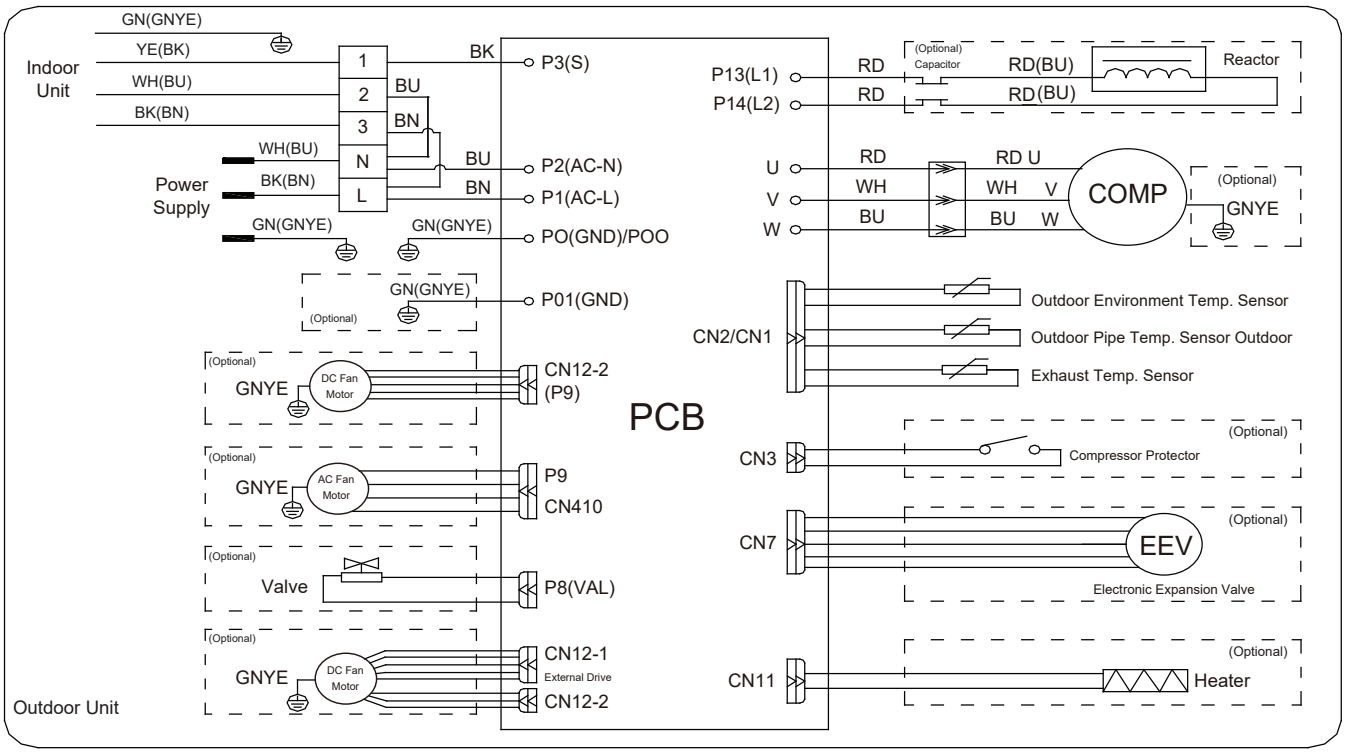
Indoor Unit: WT036GLUI17HLD



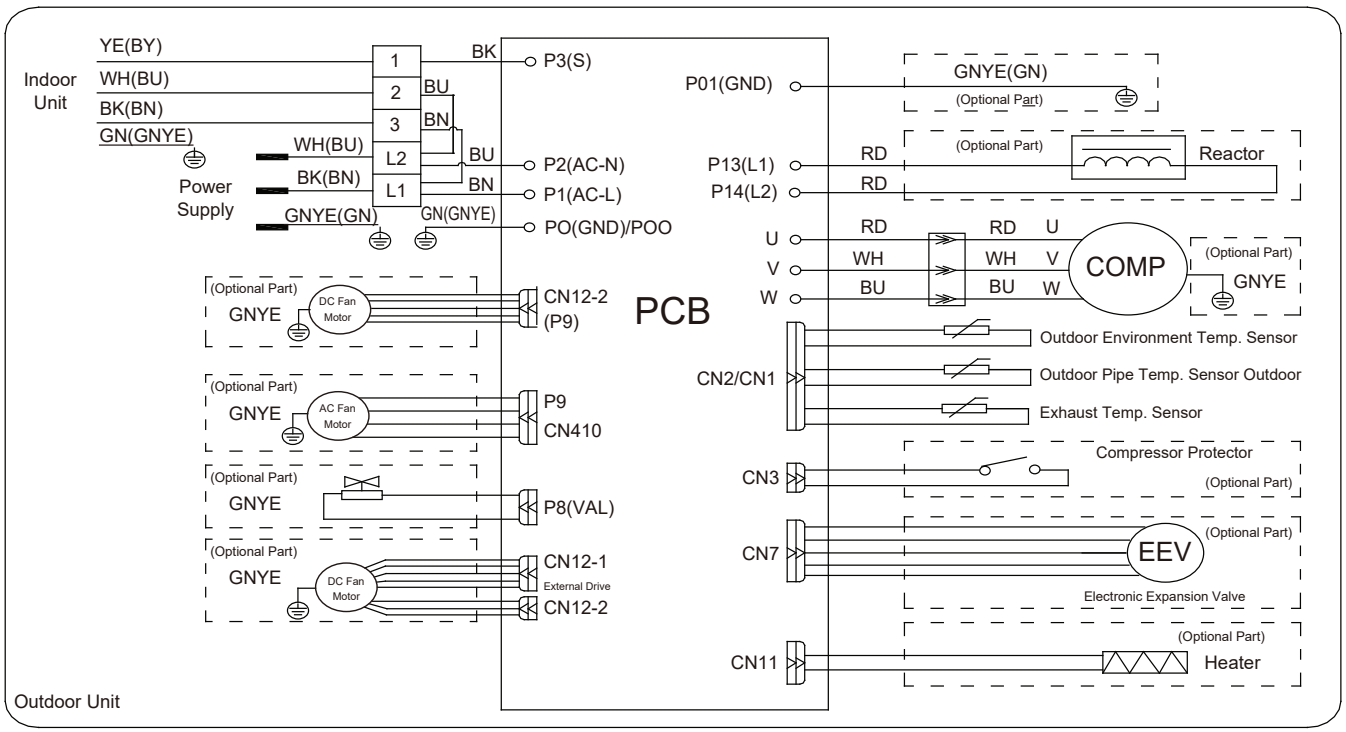
Wiring Diagrams

11

Outdoor Units: YN012ALUI17RPD | YN012GLUI17RPD



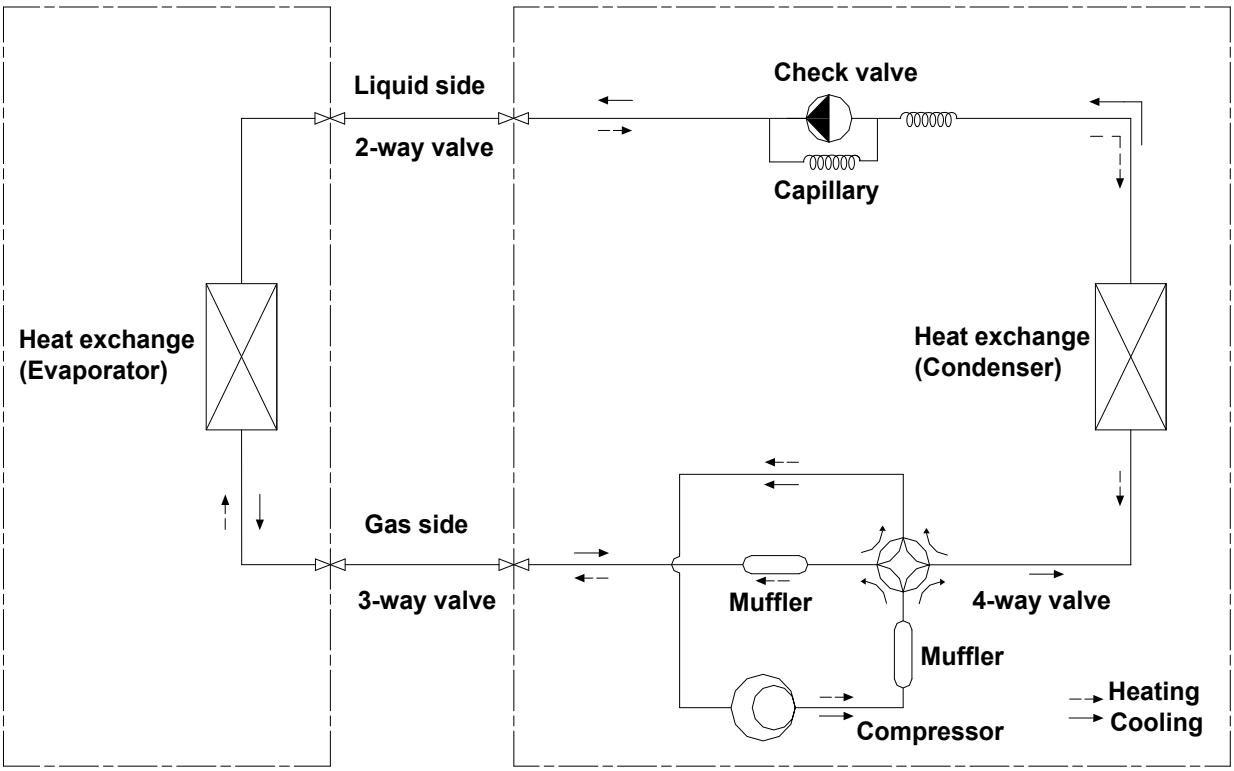
Outdoor Units: YN018GLUI17RPD | YN024GLUI17RPD | YN036GLUI17RPD



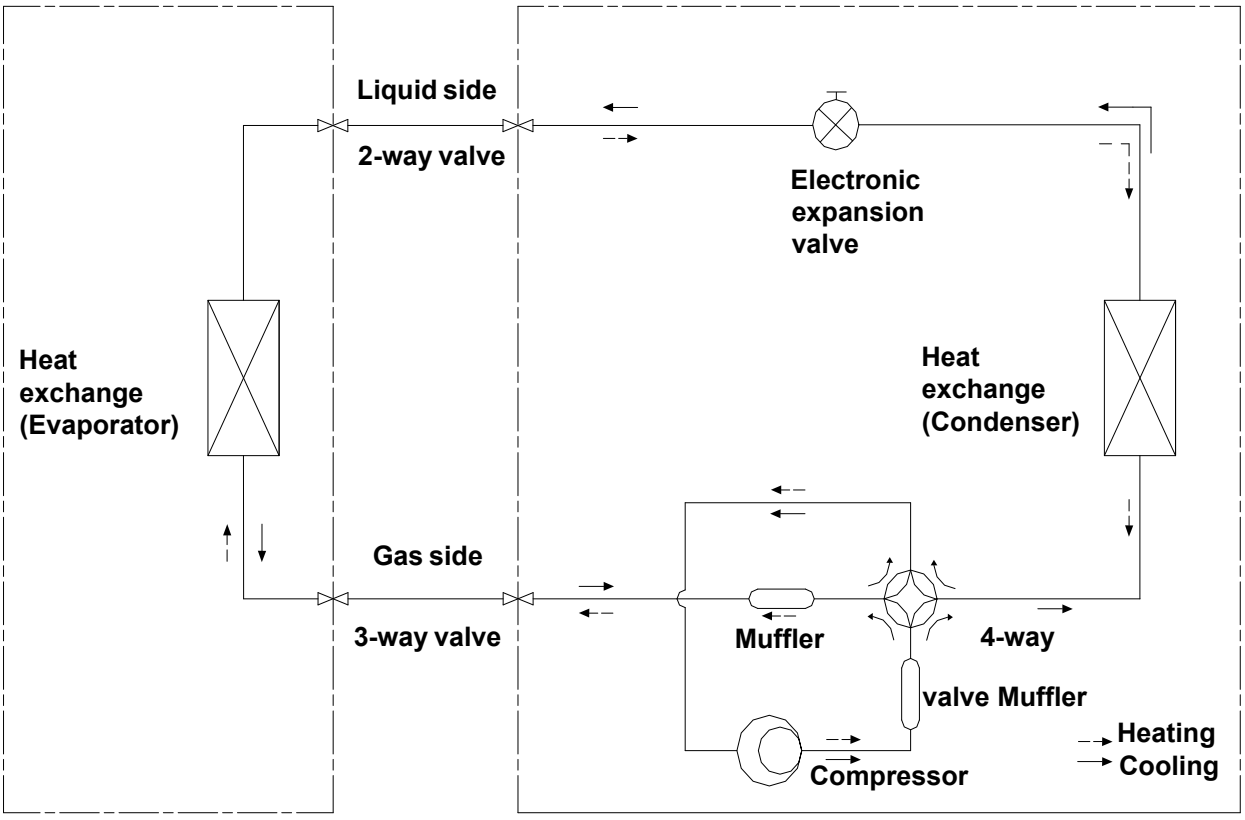
Refrigeration Cycle Diagram

12

Heat pump



or



Thermistor Temperature Characteristics

13

A. Indoor and Outdoor Units Exchange Temperature and Outside Air Temperature Sensor Temperature Characteristics

Temp. (°F/°C)	R min (k Ohm)	R(t) (k Ohm)	R max (k Ohm)	Temp. (°F/°C)	R min (k Ohm)	R(t) (k Ohm)	R max (k Ohm)	Temp. (°F/°C)	R min (k Ohm)	R(t) (k Ohm)	R max (k Ohm)
-22/-30	60.343	64.104	68.080	70/21	5.716	5.846	5.977	162/72	0.974	1.010	1.047
-20/-29	57.157	60.666	64.375	72/22	5.498	5.620	5.742	163/73	0.944	0.980	1.016
-18/-28	54.139	57.413	60.870	73/23	5.290	5.404	5.518	165/74	0.917	0.952	0.988
-17/-27	51.301	54.355	57.579	75/24	5.091	5.198	5.305	167/75	0.890	0.924	0.959
-15/-26	48.630	51.480	54.487	77/25	4.900	5.000	5.100	169/76	0.864	0.897	0.931
-13/-25	46.115	48.776	51.582	79/26	4.713	4.811	4.909	171/77	0.839	0.871	0.904
-11/-24	43.748	46.232	48.850	81/27	4.533	4.630	4.727	172/78	0.814	0.846	0.879
-9/-23	41.517	43.836	46.279	82/28	4.362	4.457	4.552	174/79	0.791	0.822	0.854
-8/-22	39.415	41.581	43.861	84/29	4.199	4.292	4.386	176/80	0.769	0.799	0.830
-6/-21	37.432	39.456	41.585	86/30	4.042	4.133	4.225	178/81	0.746	0.776	0.807
-4/-20	35.581	37.473	39.462	88/31	3.892	3.982	4.072	180/82	0.725	0.754	0.784
-2/-19	33.798	35.565	37.421	90/32	3.748	3.836	3.925	181/83	0.705	0.733	0.762
0/-18	32.134	33.785	35.519	91/33	3.611	3.697	3.784	183/84	0.685	0.713	0.742
1/-17	30.561	32.105	33.725	93/34	3.479	3.564	3.649	185/85	0.666	0.693	0.721
3/-16	29.077	30.520	32.033	95/35	3.353	3.436	3.520	187/86	0.647	0.674	0.701
5/-15	27.673	29.023	30.437	97/36	3.232	3.313	3.395	189/87	0.629	0.655	0.682
7/-14	26.347	27.609	28.931	99/37	3.116	3.195	3.275	190/88	0.613	0.638	0.664
9/-13	25.092	26.273	27.508	100/38	3.004	3.082	3.161	192/89	0.595	0.620	0.646
10/-12	23.905	25.010	26.165	102/39		2.974	3.051	194/90	0.580	0.604	0.629
12/-11	22.782	23.816	24.896	104/40	2.795	2.870	2.946	196/91	0.563	0.587	0.611
14/-10	21.720	22.687	23.697	106/41	2.697	2.770	2.844	198/92	0.549	0.572	0.596
16/-9	20.713	21.618	22.562	108/42	2.604	2.675	2.748	199/93	0.534	0.557	0.580
18/-8	19.759	20.607	21.490	109/43	2.513	2.583	2.654	201/94	0.520	0.542	0.565
19/-7	18.855	19.649		111/44	2.426	2.494	2.564	203/95	0.506	0.528	0.550
21/-6	17.999	18.742	19.515	113/45	2.343	2.410	2.478	205/96	0.493	0.514	0.536
23/-5	17.187	17.883	18.606	115/46	2.263	2.328	2.395	207/97	0.480	0.501	0.522
25/-4	16.416	17.068	17.745	117/47	2.186	2.250	2.315	208/98	0.468	0.488	0.509
27/-3	15.685	16.296	16.930	118/48	2.111	2.174	2.238	210/99	0.456	0.476	0.497

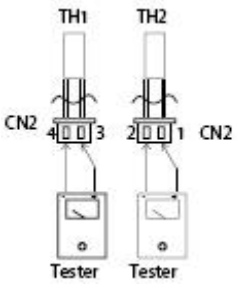
Thermistor Temperature Characteristics

13

A. Indoor and Outdoor Units Exchange Temperature and Outside Air Temperature Sensor Temperature Characteristics (Continued)

Temp. (°F/°C)	R min (k Ohm)	R(t) (k Ohm)	R max (k Ohm)	Temp. (°F/°C)	R min (k Ohm)	R(t) (k Ohm)	R max (k Ohm)	Temp. (°F/°C)	R min (k Ohm)	R(t) (k Ohm)	R max (k Ohm)
28/-2	14.991	15.563	16.156	120/49	2.041	2.102	2.164	212/100	0.444	0.464	0.484
30/-1	14.332	14.868	15.423	122/50	1.972	2.032	2.093	214/101	0.433	0.452	0.472
32/0	13.766	14.270	14.792	124/51	1.906	1.965	2.025	216/102	0.422	0.441	0.460
34/1	13.111	13.582	14.069	126/52	1.844	1.901	1.959	217/103	0.412	0.430	0.449
36/2	12.546	12.987	13.443	127/53	1.783	1.839	1.896	219/104	0.401	0.419	0.437
37/3	12.008	12.422	12.849	129/54	1.724	1.779	1.835	221/105	0.391	0.409	0.427
39/4	11.497	11.885	12.284	131/55	1.668	1.721	1.776	223/106	0.381	0.399	0.416
41/5	11.012	11.375	11.749	133/56	1.614	1.666	1.719	225/107	0.372	0.388	0.406
43/6	10.548	10.889	11.239	135/57	1.562	1.613	1.665	226/108	0.362	0.379	0.395
45/7	10.109	10.428	10.756	136/58	1.512	1.562	1.613	228/109	0.353	0.369	0.386
46/8	9.689	9.988	10.295	138/59	1.463	1.512	1.562	230/110	0.344	0.360	0.376
48/9	9.289	9.570	9.858	140/60	1.417	1.465	1.514	232/111	0.335	0.351	0.367
50/10	8.909	9.172	9.441	142/61	1.372	1.419	1.467	234/112	0.327	0.342	0.357
52/11	8.545	8.792	9.044	144/62	1.328	1.374	1.421	235/113	0.319	0.333	0.349
54/12	8.199	8.431	8.667	145/63	1.287	1.332	1.378	237/114	0.311	0.325	0.340
55/13	7.870	8.087	8.308	147/64	1.247	1.291	1.336	239/115	0.303	0.317	0.332
57/14	7.554	7.758	7.965	149/65	1.208	1.251	1.295	241/116	0.296	0.309	0.324
59/15	7.254	7.445	7.639	151/66	1.171	1.213	1.256	243/117	0.288	0.302	0.315
61/16	6.968	7.147	7.329	153/67	1.135	1.176	1.218	244/118	0.281	0.294	0.308
63/17	6.694	6.862	7.032	154/68	1.100	1.140	1.181	246/119	0.274	0.287	0.301
64/18	6.433	6.590	6.749	156/69	1.067	1.106	1.146	248/120	0.268	0.280	0.293
66/19	6.183	6.331	6.480	158/70	1.035	1.073	1.112				
68/20	5.945	6.083	6.223	160/71	1.004	1.041	1.079				

R—Resistance
Resistance at 77°F (25°C):5 kΩ.



TH1: Indoor room temperature sensor and outside air temperature sensor

TH2: Indoor exchange temperature sensor and outside exchange temperature sensor

Before measuring resistance, disconnect the connectors as shown above.

Thermistor Temperature Characteristics

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B. Outdoor Unit Discharge Sensor Temperature Characteristics

Temp. (°F/°C)	R min (k Ohm)	R(t) (k Ohm)	R max (k Ohm)	Temp. (°F/°C)	R min (k Ohm)	R(t) (k Ohm)	R max (k Ohm)	Temp. (°F/°C)	R min (k Ohm)	R(t) (k Ohm)	R max (k Ohm)
-22/-30	288.879	337.780	386.68	73/23	20.114	21.847	23.579	169/76	2.733	2.835	2.937
-20/-29	272.641	318.219	263.797	75/24	19.263	20.900	22.538	171/77	2.646	2.742	2.839
-18/-28	257.401	299.897	342.392	77/25	18.453	20.000	21.547	172/78	2.561	2.653	2.745
-17/-27	243.09*2	282.727	322.363	79/26	17.681	19.143	20.605	174/79	2.480	2.567	2.654
-15/-26	299.654	266.633	303.613	81/27	16.945	18.327	19.710	176/80	2.401	2.484	2.567
-13/-25	217.028	251.541	286.054	82/28	16.243	17.551	18.858	178/81	2.326	2.404	2.483
-11/-24	205.162	237.383	269.604	84/29	15.575	16.811	18.047	180/82	2.183	2.253	2.324
-9/-23	194.005	224.097	254.188	86/30	14.937	16.106	17.275	181/83	2.183	2.253	2.324
-8/-22	183.513	211.625	239.736	88/31	14.328	15.434	16.541	183/84	2.115	2.182	2.249
-6/-21	173.642	199.912	226.181	90/32	13.748	14.794	15.841	185/85	2.050	2.113	2.176
-4/-20	164.353	188.909	213.465	91/33	13.194	14.184	15.175	187/86	1.984	2.047	2.109
-2/-19	155.608	178.569	201.530	93/34	12.665	13.602	14.540	189/87	1.921	1.983	2.045
0/-18	147.373	168.850	190.326	95/35	12.160	13.048	13.935	190/88	1.860	1.921	1.982
1/-17	139.616	159.710	179.803	97/36	11.678	12.518	13.358	192/89	1.801	1.862	1.922
3/-16	132.307	151.112	169.917	99/37	11.217	12.013	12.809	194/90	1.744	1.804	1.864
5/-15	125.417	143.022	160.627	100/38	10.777	11.531	12.248	196/91	1.690	1.749	1.808
7/-14	118.921	135.407	151.893	102/39	10.357	11.071	11.784	198/92	1.637	1.695	1.754
9/-13	112.794	128.236	143.679	104/40	9.955	10.631	11.307	199/93	1.586	1.644	1.701
10/-12	107.014	121.483	135.952	106/41	9.571	10.211	10.852	201/94	1.537	1.594	1.651
12/-11	101.559	115.120	128.680	108/42	9.203	9.810	10.417	203/95	1.490	1.546	1.602
14/-10	96.410	109.123	121.836	109/43	8.852	9.427	10.002	205/96	1.444	1.500	1.555
16/-9	91.548	103.469	115.391	111/44	8.516	9.061	9.606	207/97	1.400	1.455	1.509
18/-8	86.956	98.138	109.320	113/45	8.194	8.711	9.228	208/98	1.358	1.412	1.465
19/-7	82.617	93.108	103.600	115/46	7.886	8.376	8.866	210/99	1.317	1.370	1.423
21/-6	78.516	88.362	98.209	117/47	7.591	8.056	8.520	212/100	1.277	1.329	1.382
23/-5	74.640	83.883	93.126	118/48	7.309	7.750	8.190	214/101	1.239	1.290	1.342
25/-4	70.974	79.653	88.332	120/49	7.039	7.750	8.190	216/102	1.202	1.253	1.303
27/-3	67.507	75.659	83.810	122/50	6.780	7.176	7.572	217/103	1.166	1.216	1.266
28/-2	64.227	71.885	79.543	124/51	6.532	6.908	7.283	219/104	1.132	1.181	1.230

Thermistor Temperature Characteristics

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B. Outdoor Unit Discharge Sensor Temperature Characteristics (Continued)

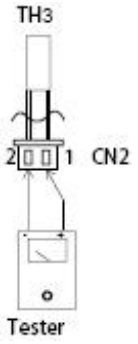
Temp. (°F/°C)	R min (k Ohm)	R(t) (k Ohm)	R max (k Ohm)	Temp. (°F/°C)	R min (k Ohm)	R(t) (k Ohm)	R max (k Ohm)	Temp. (°F/°C)	R min (k Ohm)	R(t) (k Ohm)	R max (k Ohm)
30/-1	61.123	68.319	75.515	126/52	6.294	6.650	7.007	221/105	1.099	1.147	1.195
32/0	58.184	64.948	71.712	127/53	6.066	6.404	6.743	223/106	1.066	1.114	1.162
34/1	55.402	61.761	68.120	129/54	5.847	6.168	6.489	225/107	1.035	1.082	1.129
36/2	52.766	58.746	64.726	131/55	5.638	5.942	6.247	226/108	1.005	1.051	1.098
37/3	50.269	55.894	61.519	133/56	5.437	5.726	6.015	228/109	0.976	1.022	1.067
39/4	47.903	53.195	58.488	135/57	5.244	5.518	5.793	230/110	0.948	0.993	1.038
41/5	45.661	50.641	55.621	136/58	5.059	5.319	5.580	232/111	0.921	0.965	1.009
43/6	43.543	48.222	52.910	138/59	4.882	5.129	5.376	234/112	0.895	0.938	0.981
45/7	41.517	45.931	50.345	140/60	4.711	4.946	5.180	235/113	0.869	0.912	0.955
46/8	39.604	43.761	47.917	142/61	4.548	4.770	4.993	237/114	0.845	0.887	0.929
48/9	37.789	41.704	45.619	144/62	4.39	4.602	4.813	239/115	0.821	0.862	0.904
50/10	36.066	39.755	43.443	145/63	4.240	4.440	4.641	241/116	0.798	0.839	0.879
52/11	34.431	37.907	41.383	147/64	4.094	4.285	4.475	243/117	0.776	0.816	0.856
54/12	32.787	36.154	39.430	149/65	3.955	4.136	4.317	244/118	0.754	0.794	0.833
55/13	31.403	34.491	37.580	151/66	3.821	3.993	4.164	246/119	0.733	0.772	0.811
57/14	30.001	32.914	35.826	153/67	3.693	3.855	4.018	248/120	0.713	0.751	0.789
59/15	28.670	31.417	34.163	154/68	3.569	3.723	3.878	250/121	0.694	0.731	0.769
61/16	27.404	29.995	32.586	156/69	3.450	3.596	3.743	252/122	0.675	0.712	0.749
63/17	26.200	28.645	31.090	158/70	3.335	3.475	3.614	253/123	0.657	0.693	0.729
64/18	25.056	27.363	29.671	160/71	3.225	3.357	3.490	255/124	0.639	0.675	0.710
66/19	23.967	26.145	28.324	162/72	3.119	3.245	3.370	257/125	0.622	0.657	0.692
68/20	22.931	24.988	27.044	163/73	3.017	3.136	3.225				
70/21	21.946	23.888	25.830	165/74	2.919	3.032	3.145				
72/22	21.007	22.842	24.676	167/75	2.824	2.932	3.093				

R—Resistance

Resistance at 77°F (25°C):20 kΩ

TH3: Outdoor unit discharge pipe sensor

Before measuring resistance, disconnect the connectors as shown above.



The design and specifications of this product are subject to change without prior notice as development continues. Consult with the sales agency or manufacturer for details. Refer to the equipment nameplate for all other applicable specifications.

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