

ALL-IN-ONE PACKAGED CONSOLE INVERTER HEAT PUMP

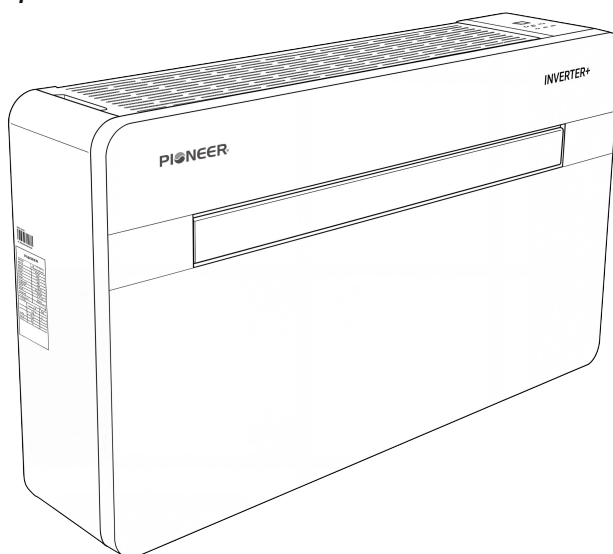
PIONEER®

PYM012GZUI16RD

12,000 BTU/hr System

Self-Contained Monoblock System (R-32)

No Outdoor Unit Required



Installation & User Manual

IMPORTANT NOTICE:

Read this manual carefully before installing or operating the new air conditioning system. Be sure to save this manual for future reference.

 **Wi-Fi App
Control
Ready**

FCC IDENTIFIER: 2ANDL-CB3S



Table of Contents

1. Safety & General Information	3
2. Introduction	14
3. Technical Specifications	16
4. Display Panel	17
5. Control Board Layout	18
6. Installation	19
7. Operating Instructions	34
8. Operating Modes	38
9. Wi-Fi Connection & App Setup	45
10. Maintenance	46
11. Troubleshooting	47

Safety & General Information

1

The following symbols are used throughout this manual to indicate important safety information. Read and understand all safety instructions before installing, operating, or servicing the unit.

	DANGER Flammable Refrigerant	This symbol indicates that the appliance uses a flammable refrigerant. If the refrigerant leaks and is exposed to an external ignition source, there is a risk of fire.
	WARNING Read the Manual	This symbol indicates that the operation manual must be read carefully before installing, operating, or servicing the equipment.
	CAUTION Service Personnel Only	This symbol indicates that installation, servicing, or repair must be performed by qualified service personnel and should be carried out in accordance with the installation manual.
	NOTICE Additional Information	This symbol indicates that additional information is available in the operation or installation manual.



Safety Precautions

- Read all instructions before installing or operating this unit.
- Children aged 8 and above, as well as individuals with lack of experience or reduced physical, sensory, or mental capabilities can use the appliance if supervision or instruction is given. Do not allow children to play with or near the appliance. Children or untrained personnel should be restricted from cleaning and performing maintenance on the appliance, unless they're given supervision.
- Do not smoke or introduce open flames and other ignition sources near the unit.
- Do not use methods to accelerate defrosting or to clean the unit other than those recommended by the manufacturer.
- Do not pierce, burn, or mechanically damage the refrigeration circuit.
- Refrigerant may be odorless, making leaks difficult to detect.
- The unit must be installed and operated in accordance with local and national regulations.
- Store the appliance in a well-ventilated area that meets the minimum room size requirements specified for the equipment.
- Do not store the unit in areas containing continuously operating ignition sources such as open flames, gas appliances, and electric heaters.
- Store the appliance in a manner that prevents mechanical damage.

Safety & General Information

1



Installation & Service Requirements

- Only qualified personnel may install and service this equipment.
- Technicians working on the refrigerant circuit must hold a current certification issued by an accredited authority verifying their competence in handling refrigerants safely.
- Perform servicing only as recommended by the manufacturer.
- Maintenance or repair requiring assistance from additional personnel must be carried out under the supervision of a technician qualified to work with flammable refrigerants.
- Ensure that air inlet and outlet openings remain unobstructed at all times.



Servicing Precautions

Area Safety Checks

Before working on equipment containing flammable refrigerants, perform safety checks to minimize the risk of ignition.

Prior to servicing the refrigeration system, ensure the work area is free of ignition sources and adequate ventilation is present.

Work Procedures

Conduct all service work using controlled procedures that minimize the presence of flammable gas or vapor.

This product is a self-contained, packaged heat pump system designed for indoor installation, requiring no outdoor condensing unit.



Work Area Safety

- All personnel in the area must be informed of the nature of the maintenance or service work.
- Avoid working in confined spaces whenever possible.
- Secure and control the area surrounding the workspace. Ensure the environment is safe and all flammable materials are removed or properly managed before work begins.

Safety & General Information

1



Checking for Presence of Refrigerant

- Monitor the area before and during service work using an appropriate refrigerant leak detector to ensure awareness of potentially flammable atmospheres.
- Leak detection equipment used in these areas must be suitable for A2L refrigerants, non-sparking, properly sealed, or intrinsically safe.



Fire Extinguishing Equipment

- If performing hot work on the refrigeration system or associated components, keep appropriate fire extinguishing equipment readily available.
- Position a dry chemical or CO₂ fire extinguisher near the work area, especially around charging or service locations.



Elimination of Ignition Sources

- Personnel exposing piping or components that contain flammable refrigerant must not introduce any ignition sources.
- Possible ignition sources include, but are not limited to:
 - Open flames
 - Sparks
 - Smoking materials
- Do not smoke in areas where refrigerant installation, service, repair, or disposal occurs.
- Before beginning work, inspect the surrounding area to ensure no flammable hazards or ignition sources are present.



Ventilation Requirements

- Ensure the work area is outdoors or adequately ventilated before opening the refrigeration circuit or performing hot work.
- Maintain continuous ventilation throughout the entire service operation.
- The ventilation system must safely disperse any released refrigerant, venting it directly outdoors whenever possible.

Safety & General Information

1



Inspection of Refrigeration Equipment

- When replacing electrical components, ensure they are approved for the application and meet correct specifications.
- Always follow the manufacturer's service and maintenance instructions.
- If uncertain about equipment suitability or service procedures, consult the manufacturer's technical support department.
- For systems using flammable refrigerants, perform the following checks:
 - The refrigerant charge size must comply with the dimensions of the room where the equipment is located.
 - Ensure ventilation equipment and air outlets function properly and remain unobstructed.
 - If using an indirect refrigeration circuit, inspect the secondary circuit for the presence of refrigerant.
 - Ensure all equipment markings and safety labels remain visible and legible. Replace any labels that are damaged or unreadable.
 - Install refrigerant piping and components where they are not exposed to corrosive substances, unless they are made from corrosion-resistant materials or are adequately protected.



Electrical Components Safety Checks

- Electrical maintenance and repair must include initial safety inspections and component testing.
- If a fault is identified that could compromise safety, do not connect electrical power to the system until the issue is resolved.
- If an immediate repair is not possible but continued operation is necessary, implement a suitable temporary solution and notify the equipment owner.
- Initial safety checks must verify that:
 - Ensure capacitors are fully discharged in a safe, non-sparking manner before beginning service work.
 - Verify no live electrical components or wiring are exposed during refrigerant charging, recovery, or purging.
 - Confirm the equipment grounding (earth bonding) is continuous and intact.

Safety & General Information

1



Repairs to Sealed Components

- When servicing sealed electrical components, disconnect all electrical power supplies before removing sealed covers or enclosures.
- If the equipment must remain energized during servicing, install a continuously operating leak detection device at the most critical location to warn of potentially hazardous conditions.
- When working on electrical components, ensure the equipment enclosure is not modified or damaged in a manner that reduces its protective rating. This includes avoiding:
 - Damage to cables or wires.
 - Excessive number of electrical connections.
 - Terminals that do not meet original specifications.
 - Damage to seals or gaskets.
 - Incorrect installation of cable glands.
- Ensure the equipment is securely mounted and properly supported. Verify all seals and sealing materials are in good condition and have not deteriorated to a point where they can no longer prevent the ingress of flammable refrigerant vapors.
- Replacement components must be manufacturer-approved and installed in accordance with factory specifications.
- The use of silicone sealants can reduce the effectiveness of certain refrigerant leak detectors.
- Intrinsically safe components do not require electrical isolation prior to servicing.



Repairs to Spark-Protected Components

- Do not apply permanent inductive or capacitive loads to the circuit unless you verify that voltage and current limits will not be exceeded.
- Only intrinsically safe components are permitted to be serviced while live in a potentially flammable atmosphere.
- Ensure test equipment used during servicing is properly rated and suitable for the application.
- Only install manufacturer-specified replacement parts. Using unauthorized components creates an ignition risk if a refrigerant leak occurs.

Safety & General Information

1



Cabling

- Inspect all wiring to ensure it is not exposed to:
 - Wear or abrasion.
 - Corrosion.
 - Excessive mechanical pressure.
 - Vibration.
 - Sharp edges.
 - Adverse environmental conditions.
- Inspections must account for aging and continuous vibration caused by compressors and fans.



Detection of Flammable Refrigerants

- Never use potential ignition sources to search for or detect refrigerant leaks.
- Do not use a halide torch or any flame-based detection method.



Leak Detection Methods

- The following leak detection methods are approved for systems with flammable refrigerants.
- Electronic leak detectors may be used; however, their sensitivity may require adjustment or recalibration.
- Leak detection equipment must be:
 - Calibrated in a refrigerant-free environment.
 - Suitable for the refrigerant type being used.
 - Confirmed not to act as an ignition source.
- Set leak detectors to a maximum of 25% of the Lower Flammability Limit (LFL) and calibrate them for the specific refrigerant used.
- Leak detection fluids are suitable for most refrigerants. However, do not use detergents containing chlorine, as it can react with the refrigerant and corrode copper piping.
- If a leak is suspected, extinguish or remove all open flames immediately.
- If a refrigerant leak is discovered and brazing repairs are required, recover the entire refrigerant charge or isolate it using shutoff valves in a section remote from the leak.
- Purge oxygen-free nitrogen (OFN) through the system both before and during the brazing process.

Safety & General Information

1



Removal & Evacuation

- These procedures apply only when refrigeration circuit repairs are performed by qualified service personnel.
- When opening the refrigerant circuit for repair or service, follow standard recovery procedures and take additional precautions due to refrigerant flammability.
- Use the following procedure:
 1. Recover the refrigerant.
 2. Purge the circuit with inert gas.
 3. Evacuate the system.
 4. Purge again with inert gas.
 5. Open the circuit by cutting or brazing.
- Store recovered refrigerant only in approved recovery cylinders.
- The system must then be flushed OFN to make the unit safe. This process may need to be repeated several times.
- Never use compressed air or oxygen to purge the system.
- Achieve flushing by breaking the vacuum with OFN, filling the system to working pressure, venting to the atmosphere, and drawing a vacuum again.
- Repeat this process until no refrigerant remains in the system.
- After the final OFN purge, vent the system to atmospheric pressure before beginning work.
- This procedure is essential before brazing any refrigerant piping.
- Ensure the vacuum pump outlet is clear of ignition sources and that there is adequate ventilation.



Charging Procedures

- In addition to conventional charging procedures, observe the following requirements:
 - Do not mix different refrigerants when using charging equipment.
 - Keep charging hoses or lines as short as possible to minimize the refrigerant contained within them.
 - Keep refrigerant cylinders upright during charging.
 - Ensure the refrigeration system is properly grounded before charging refrigerant.
 - If not already done, label the system when charging is complete.
 - Take extreme care not to overfill the system.
- Before recharging, pressure test the system with OFN.
- Upon completing the charge, leak test the system before commissioning.
- Perform a final leak test before leaving the installation site.

Safety & General Information

1



Refrigerant Recovery

Safely recover all refrigerant using approved procedures during servicing or decommissioning. When transferring refrigerant into cylinders, ensure that:

- Only use proper refrigerant recovery cylinders.
- A sufficient number of cylinders are available to hold the entire system charge.
- Cylinders are clearly labeled for the specific refrigerant being recovery.
- Recovery cylinders must be equipped with pressure relief devices and shut-off valves in proper working condition.
- Evacuate recovery cylinders and, where practical, cool them prior to recovery.
- Recovery equipment must be properly maintained and suitable for handling flammable refrigerants.
- A calibrated weighing scale is available and in good working order.
- Hoses must feature leak-free disconnect couplings and be maintained in good condition.

Before using the recovery machine, verify that:

- The equipment is functioning properly.
- The recovery machine is properly maintained.
- That all associated electrical components are sealed to prevent ignition in the event of a refrigerant release.
- If uncertain about equipment suitability, consult the manufacturer.
- The recovered refrigerant is returned to the supplier in an approved recovery cylinder, and complete all applicable waste transfer documentation.
- Different refrigerants must never be mixed, either in recovery equipment or in cylinders.
- Before removing compressors or compressor oil, evacuate them sufficiently to ensure flammable refrigerant does not remain in the lubricant.

Complete the evacuation process before returning the compressor to the supplier. Use only electric heating on the compressor housing to accelerate this process. Handle and dispose of drained system oil safely.

Safety & General Information

1



Decommissioning

Before performing this procedure, technicians must be fully familiar with the equipment and its operation. We recommend safely recovering all refrigerant before beginning decommissioning.

Take an oil and refrigerant sample before starting the procedure if analysis is required prior to reuse or reclamation. Verify that electrical power is available before beginning.

Procedure

- Familiarize yourself with the equipment and its operation.
- Electrically isolate the system.
- Before beginning the procedure, confirm the following:
 - Use mechanical handling equipment when moving refrigerant cylinders.
 - Wear appropriate personal protective equipment (PPE) and ensure it is used correctly.
 - A qualified and competent person must supervise the recovery process.
 - Recovery equipment and cylinders must comply with all applicable standards.
- Pump down the refrigerant system, if possible.
- If pump-down is not possible, connect a manifold system so refrigerant can be removed from multiple parts of the system.
- Place the recovery cylinder on a scale before beginning recovery.
- Start and operate the recovery machine according to the manufacturer's instructions.
- Do not overfill cylinders. Ensure liquid charge does not exceed 80% of the cylinder volume.
- Do not exceed the cylinder's maximum working pressure, even temporarily.
- After filling the cylinders and completing the recovery process:
 - Close all isolation valves on the equipment.
 - Remove the cylinders and equipment from the site promptly.
- Do not charge recovered refrigerant into another refrigeration system unless it has been properly cleaned and verified for reuse.



Equipment Labeling

Apply a signed and dated label to the equipment indicating it has been decommissioned and emptied of refrigerant. Verify the equipment carries labels clearly stating the system contains flammable refrigerant.

Safety & General Information

1



Electrical & Operational Safety

Do not repair or adjust any electrical or mechanical components of this air conditioner; doing so may void the warranty. Contact a qualified service technician if service is required.

Operate the unit using only a power supply that matches the voltage and frequency specified on the product rating label. Do not use this air conditioner in wet or damp environments.

Disconnect the power supply before cleaning, maintaining, or accessing internal components.

When using electrical appliances, always follow these basic safety precautions:

- Exercise caution when operating the unit near children or pets.
- Never leave the appliance unattended while operating.

Do not operate the unit if:

- Open flames
- Cooking appliances
- Heating equipment
- Hot surfaces

Do not:

- Allow the power cord to hang over the edge of a table or counter top, where it can be pulled or tripped over.
- Place the power cord under carpets, rugs, or other floor coverings.
- Operate the unit in areas where flammable liquids, such as gasoline, paint, or solvents, are used or stored.
- Modify or disable any safety devices or control systems without explicit manufacturer authorization.
- Pull, twist, or excessively bend the power cord, even when disconnected from the power supply.
- Allow prolonged direct exposure to the airflow unless the space is adequately ventilated.
- Place objects on the unit or obstruct the air inlet and outlet openings.



Service & Maintenance

- Only qualified technicians or authorized service engineers may perform repair and maintenance work, following all manual instructions.
- Do not modify the appliance. Unauthorized modifications create hazardous conditions, and the manufacturer is not responsible for any resulting damage or injury.
- If this manual is lost or damaged, contact the manufacturer or supplier for a replacement.

Safety & General Information

1



Disposal & Environmental Information

- Do not dispose of electrical products with household waste.
- Recycle this product at an authorized facility. Contact your local authority or retailer for recycling guidance.
- Remote control batteries contain materials that can harm the environment.
- Remove expired batteries and dispose of them in accordance with local regulations.

Introduction

2

Opening Notes

- Do not dispose of any packaging materials until the installation of the air conditioner has been completed.
- After removing the packaging:
 - Verify all components are present and undamaged.
 - Refer to the accessory list for complete details.
 - Contact the retailer immediately if any parts are missing or damaged.
- This air conditioner is designed to heat and cool indoor air. Use the unit only as intended.
- The manufacturer is not responsible for property damage, or injury to humans or animals, resulting from improper installation, operation, maintenance, or misuse.
- This air conditioner contains R32 refrigerant. At the end of the product's service life, dispose of the unit in compliance with all applicable refrigerant recovery and recycling regulations. Contact your local authority for disposal guidance.
- Do not operate the unit until installation is complete and properly positioned.
- Correctly ground (earth) the appliance in accordance with local electrical regulations before operating.

Before Operating the Unit

- Unpack the air conditioner and verify it is in good condition before use.
- Do not allow children to play with packaging materials such as plastic bags.
- Do not operate the unit if:
 - The power cord or plug is damaged.
 - The unit has malfunctioned.
 - The unit has been dropped or damaged in any way.
- Return the unit to an authorized service center for inspection and repair if any of the above conditions occur.

Receiving the Merchandise

- The air conditioner ships in a protective packaging along with this manual.
- This manual is an integral part of the product. Retain it for future reference.
- After unpacking, inspect the unit and all accessories to verify they are complete and undamaged.
- Contact your retailer immediately if any components are missing or damaged.

Introduction

2

Handling

- Check the unit weight before attempting to lift or move the air conditioner.
- Use proper lifting techniques and take precautions to prevent injury or equipment damage.
- We recommend removing the packaging only after positioning the unit at the installation location.
- Remove all protective films and adhesive materials from the unit carefully.
- Dispose of all packaging materials properly. Do not leave packaging within reach of children, as it poses a suffocation hazard.

List of Accessories

- Mounting Bracket
- Wireless Remote Control
- Remote Control Wall Holder
- Remote Control Batteries
- Drain Hose
- Drain Hose Extension
- Exterior Grille(s)
- Flexible Air Duct Panel Inserts
- Screw Kit
- Installation & User Manual
- Wall Drilling Template
- Fresh Air Intake Duct (18 in.)
- Indoor Drain Adapter
- Terminal Connector (Male end, pre-installed on 24V thermostat wiring)
- Cable Clip
- Cable Clip Screw

Electrical Supply Requirement

- Connect this product only to a power supply with a system impedance of 0.193 ohms or less.
- If necessary, consult your utility provider for system impedance information.

Compliance & Certification

- This product complies with applicable safety standards and is ETL listed (Intertek) in accordance with:
 - UL 60335-1
 - UL 60335-2-40
 - CSA C22.2 No. 60335-1
 - CSA C22.2 No. 60335-2-40



Technical Specifications

3

Parameter	Value
Cooling Capacity (BTU/h)	11,800
Heating Capacity (BTU/h)	10,900
Electric Heat Capacity (BTU/h)	10,236
Rated Voltage / Frequency	208/230V, 60Hz
Rated Power – Cooling (W)	1,209
Rated Current – Cooling (A)	6.1
Rated Power – Heating (W)	947
Rated Current – Heating (A)	4.8
Rated Current – Electric Heater (A)	13.6
Rated Current – Heating + Electric Heater (A)	—
Airflow (CFM)	330
Sound Level (dB(A))	48 / 45 / 42
Temperature Setting Range (Remote Control)	64–86°F (18–30°C)
Refrigerant Type / Charge	R32 / 22.9 oz
Global Warming Potential (GWP)	675
Dimensions (H × W × D) [inches]	22-3/4 × 39-1/2 × 7-5/8
Weight	117 lbs (53.1 kg)
PCBA Internal Fuse	T20A 250VAC

Standard Test Conditions

In accordance with ARI 310/380-2004

Cooling Mode Operating Range

Indoor: 63–90°F (17–32°C)

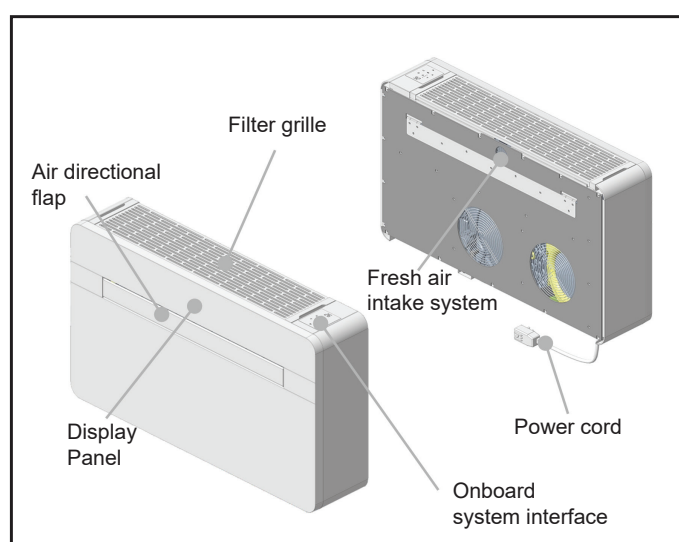
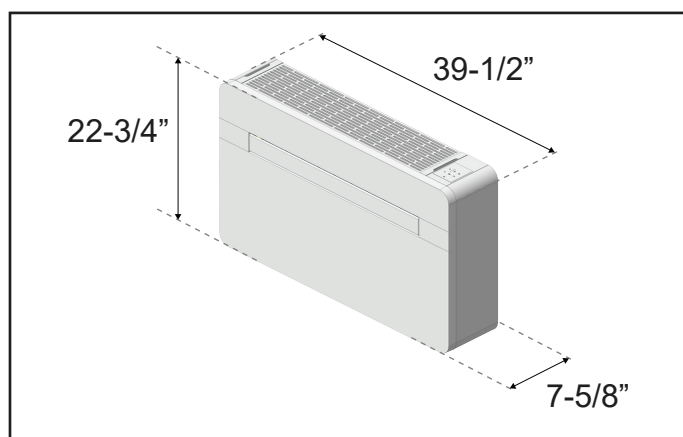
Outdoor: 63–109°F (17–43°C)

Heating Mode Operating Range

Outdoor: 28–75°F (-2–24°C)

Indoor: 28–81°F (-2–27°C)

Specifications are subject to change without notice as part of continuous product improvement.



Display Panel

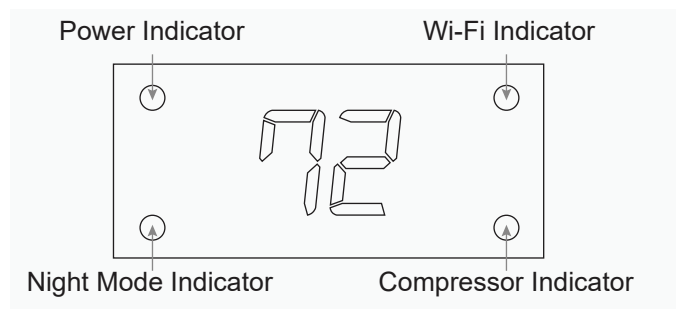
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Display Indicators

The display panel indicates the system status and temperature information.

Indicator Functions:

- Power Indicator: Unit is powered on.
- Night Mode Indicator: Night mode is active.
- Compressor Indicator: Compressor is operating.
- Wi-Fi Indicator:
 - Flashing: Pairing mode.
 - Solid: Connected



Display Operation

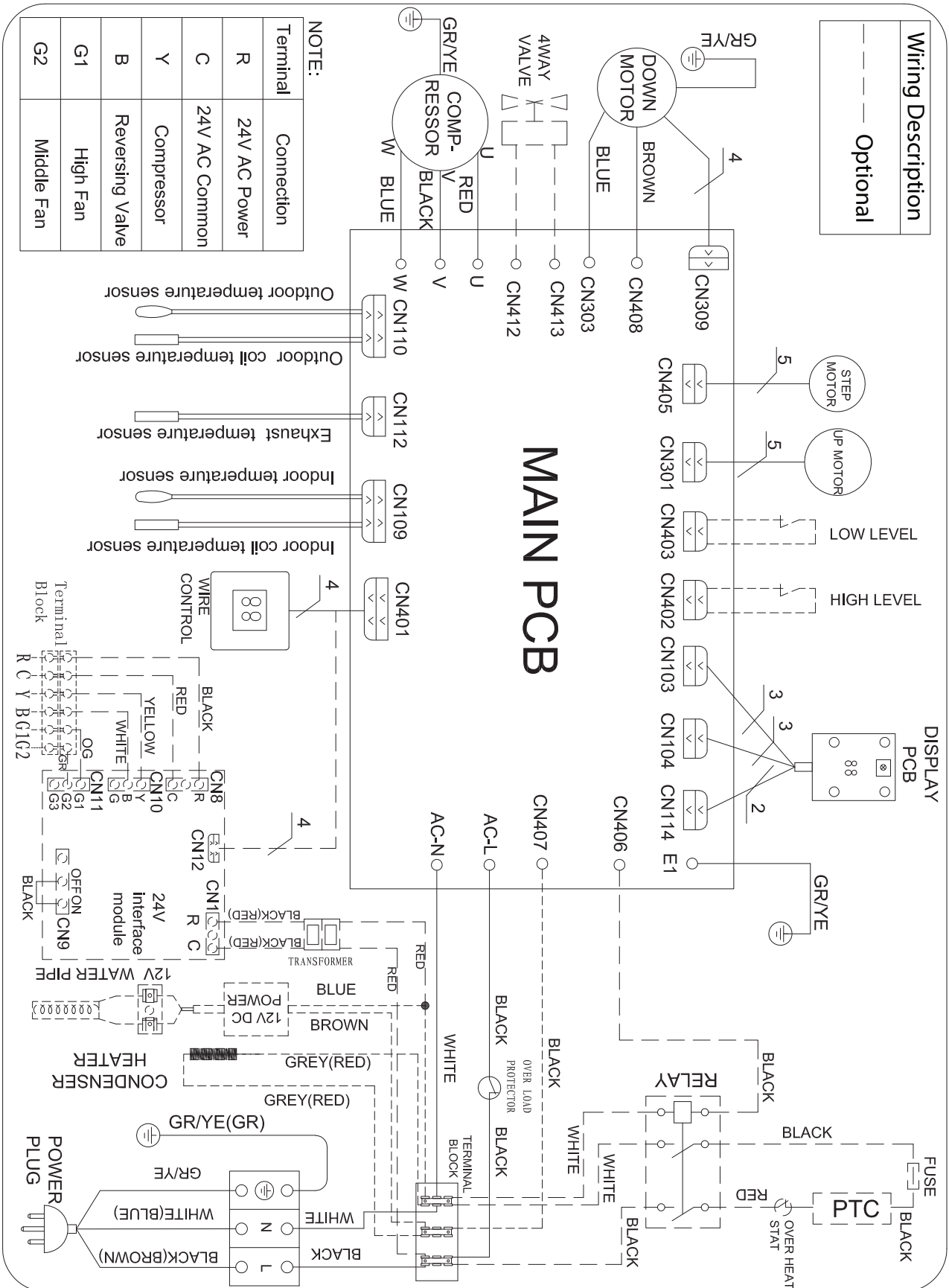
The display shows both the set temperature and the ambient room temperature.

After adjusting the temperature:

- The set temperature will flash approximately 15 times.
- Then, the display shows the ambient temperature for approximately 70 seconds.
- After this period, the display turns off until the next adjustment.

Control Board Layout

5



Installation

6

A. Selecting the Installation Location

Select a proper installation location to ensure optimal performance, safety, and reliability.

Follow these guidelines carefully. Improper positioning may reduce performance, cause installation issues, or damage equipment.

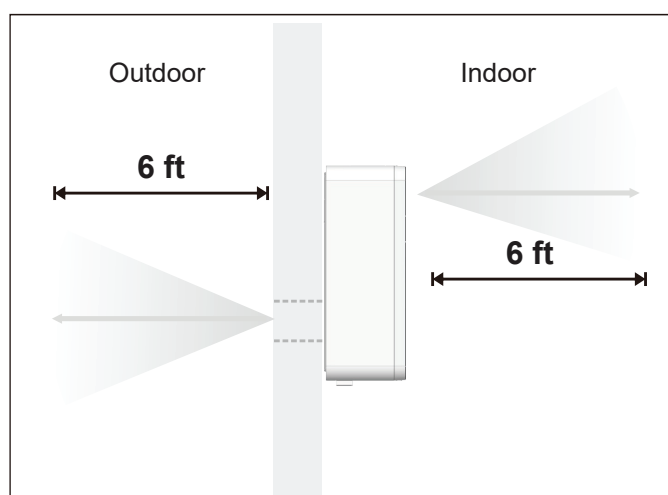
Installation Requirements

- Install the unit on an exterior wall with direct access to the outdoors.
- Maintain at least 6 feet (1.83 m) of clearance on both indoor and outdoor sides.
- Maintain at least 6 feet (1.83 m) of clearance from combustible materials.
- Provide sufficient space around the unit, as shown on the installation template.
- Ensure the mounting wall is structurally sound and rated to support the full weight of the unit.

Site Evaluation

Before installation, verify the following:

- The selected wall location can be drilled without interfering with structural elements, such as:
 - Beams
 - Columns
 - Pipes
 - Electrical Wiring
- The exterior side of the wall is free from obstructions that could restrict airflow, including:
 - Vegetation (plants, leaves)
 - Louvers or Grilles
 - Drain Hoses or Overflows
 - Architectural Features



Installation

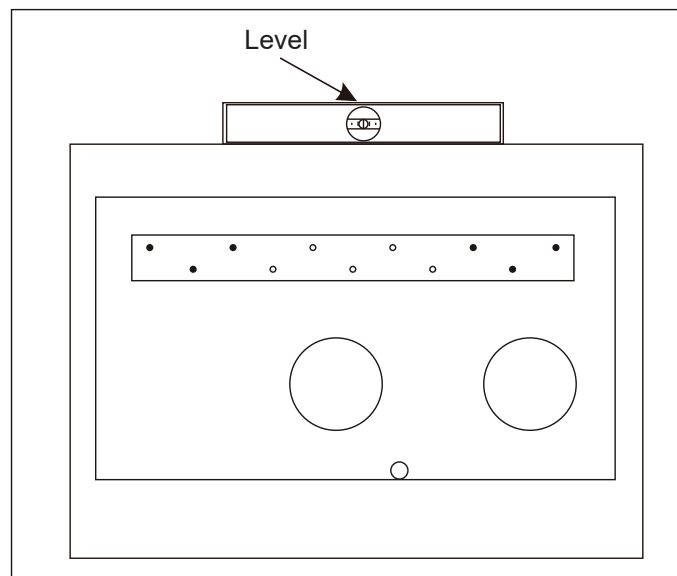
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B. Installing the Wall Template

Secure the installation template to the wall after verifying all conditions.

Installation Requirements

- Do not drill any holes until you verify that:
 - No hidden obstructions are present inside the wall.
 - No electrical wiring, plumbing, or gas lines will be affected.
- Use a level to ensure the unit is installed properly.
- Follow installation instructions carefully and completely.



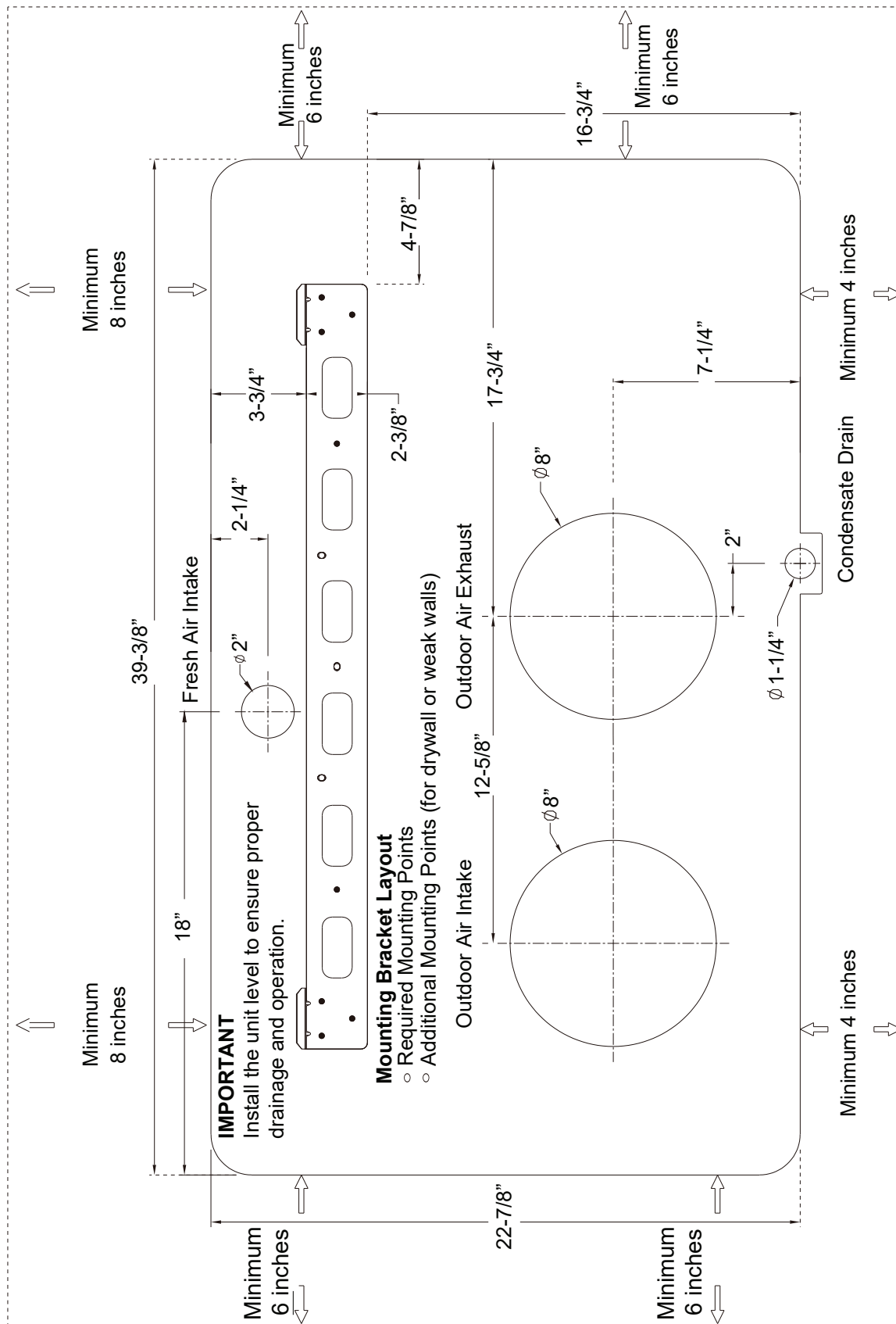
Mounting Process

Follow these steps to complete the mounting process:

1. Position Template: Attach the drilling template to the wall at the desired installation location.
2. Level Template: Use a level to ensure the template is perfectly horizontal.
3. Mark Holes: Mark all mounting and duct openings.
4. Drill Openings: Drill holes according to the dimensions shown in the next page. Use this template to mark and drill all required wall openings before mounting the unit.

Installation

6



Installation

6

C. Drilling the Wall Openings

When drilling through an exterior wall above ground level, secure the work area and supervise the exterior side.

Air Intake & Exhaust Openings

Use appropriate tools for wall penetration, such as:

- Diamond Core Drill
- Core Bit with adjustable speed and high torque.

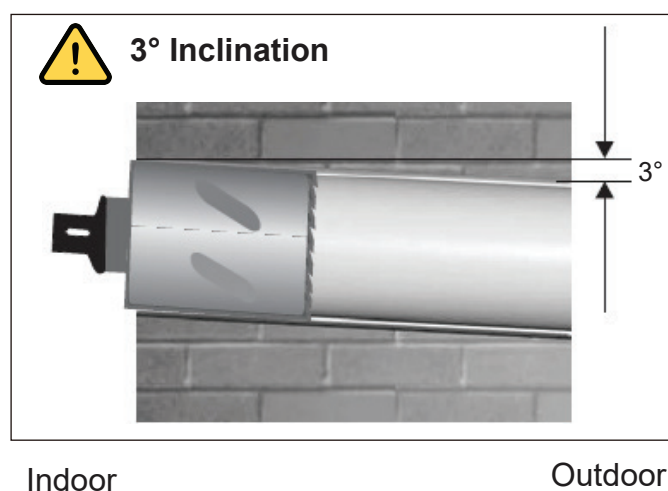
Follow these steps to drill the wall openings:

1. Secure the drilling template to the wall.
2. Verify all measurements and confirm the template is level.
3. Mark the center of each hole using a pilot drill.
4. Drill two Ø 8 inch holes for:
 - Outdoor air intake
 - Outdoor air exhaust

Hole Slope

Drill the wall penetrations with a downward slope toward the exterior.

- Recommended slope: 3-degrees to 5-degrees.
- Purpose: Prevent water from entering the indoor space.
- Properly seal and waterproof all wall penetrations after installation to prevent water ingress.



Installation

6

D. Install the Drain Hose

This unit uses a gravity-assisted condensate drainage system. Connect the drain line from the unit to ensure proper condensate removal.

Requirements

- Drill a Ø 1-1/4 inch in the location shown on the template.
- Ensure drainage is directed outdoors.

Installation

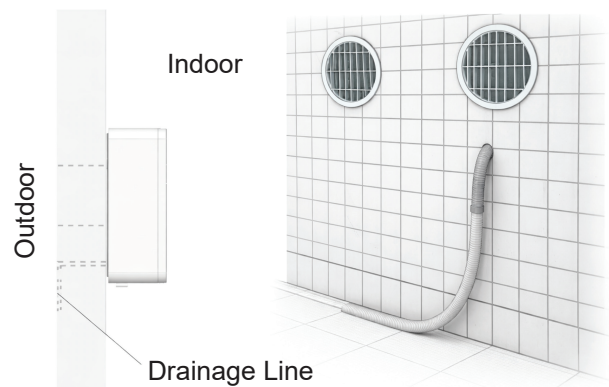
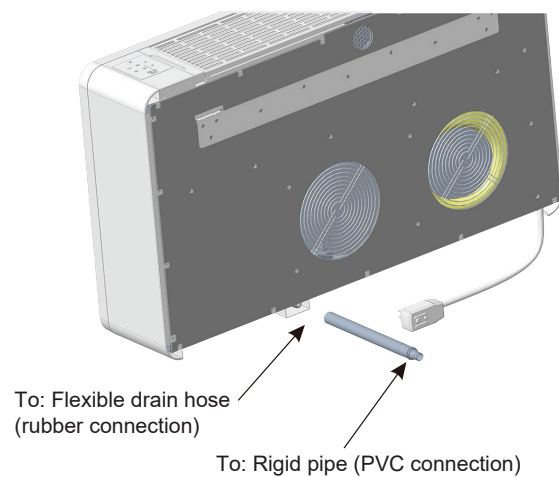
Follow these steps to install the drain hose:

1. Attach the flexible drain hose to the drain outlet located at the bottom of the unit chassis.
2. Maintain a minimum downward slope of 3-degrees along the entire drain hose.
3. Avoid traps, dips, and upward runs in the drain hose.
4. If required, use the appropriate rigid connector to secure the connection.



Notes

- In standard or warm climates, route the drain line to discharge outdoors at a suitable location.
- Ensure the line maintains a continuous downward slope for proper drainage.



Installation

6

E. Mounting the Bracket

Secure the mounting bracket to the wall using appropriate fasteners.

Follow these steps to mount the bracket:

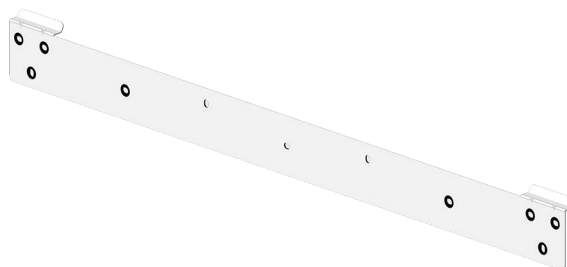
1. Drill mounting holes using the template:

- Install the fasteners into the required primary holes.
- Use additional fastener locations if the wall is not structurally sound.

2. Drill 5/16 inch (8 mm) diameter holes for the supplied anchors.

3. Verify that the wall structure is suitable for anchoring:

- Wall Type: Concrete / Masonry;
Required Fasteners: Standard anchors
- Wall Type: Stud;
Required Fasteners: Structural studs.



Installation

6

F. Installing the Exterior Grilles

WARNING

Apply proper waterproofing sealant to the exterior wall before installing the grilles to prevent indoor water intrusion.

Drill the wall openings, then install the supplied exterior grilles.

Installation from the Outside (Preferred)

If the exterior wall is accessible, follow these steps:

1. Position the grille over the wall opening.
2. Ensure the grille fins are oriented vertically.
3. Secure the grille to the wall using:
 - A. Wall anchors (plugs)
 - B. Screws (approximately 1/4 inch / 6 mm diameter)

Install the grille with the airflow direction matching the intake/exhaust configuration shown in the template.



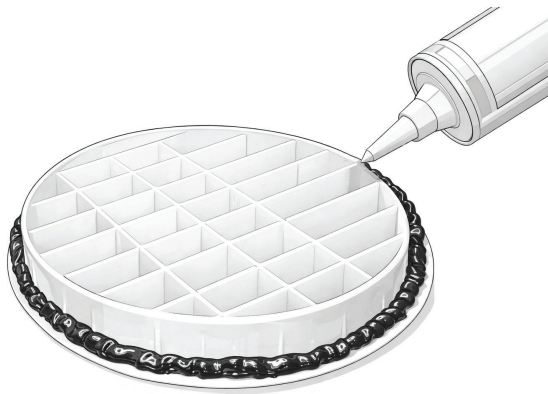
Installation

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Installation from the Inside (Limited Exterior Access)

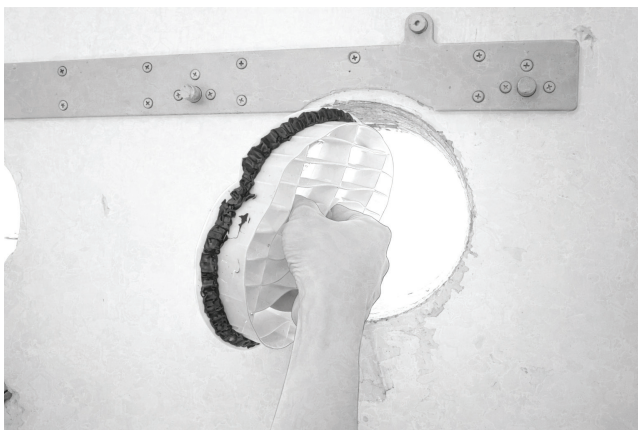
If the exterior side is not accessible, follow these steps:

1. Apply a continuous bead of silicone sealant around the outer edge of the grille.



2. Gently compress or fold the grille as needed to fit the opening.

3. Insert the grille through the wall opening from inside.



4. Carefully position and pull the grille into place so it seats properly on the exterior wall.

This may require patience and adjustment to ensure proper alignment.



Installation

6

Sealing the Grille

After the grille is installed, follow these steps:

1. Apply an additional exterior-grade sealant around the perimeter between the grille and the wall.
2. Ensure a continuous seal to prevent water ingress.



Note: Sealant Recommendation

The sealant shown in the illustrations is for reference only. Use white or clear exterior-grade silicone sealant for best appearance and durability.



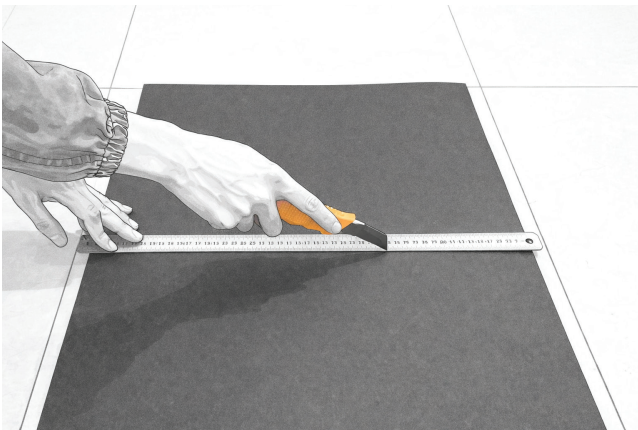
Installation

6

G. Installing the Exterior Grilles

After drilling the wall openings, install the supplied plastic air ducts as follows:

1. Measure the wall thickness and cut the plastic duct sleeves to the appropriate length.

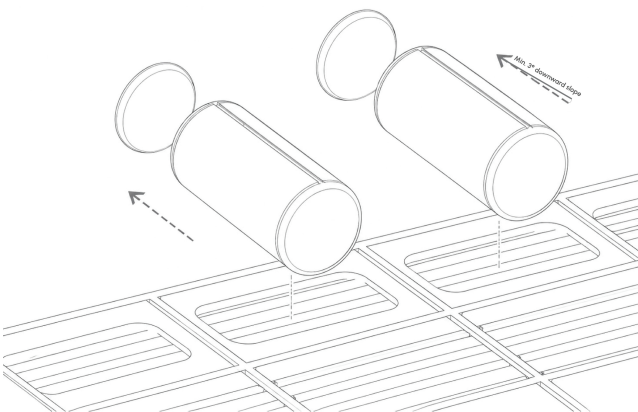


2. Roll the sheet into a cylindrical shape and insert it into each wall opening.

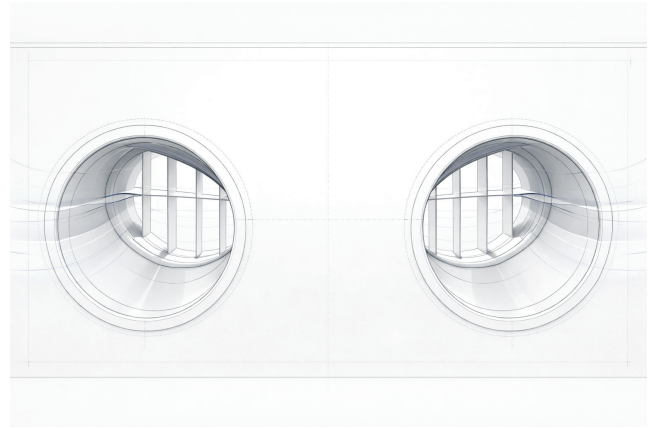
3. If desired, use a strip of adhesive tape to maintain the shape of the air duct tubing.

4. Ensure the seam of the duct is positioned at the top (12 o'clock position).

5. Maintain a slight downward slope (minimum 3-degrees) consistent with the angle of the drilled holes.



6. Insert the rolled ducts into the wall holes.



Installation

6

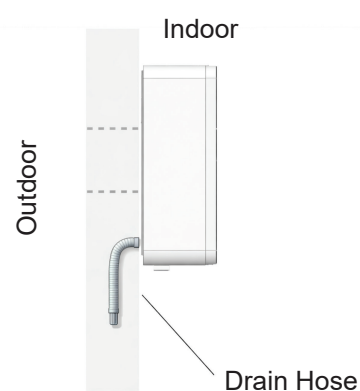
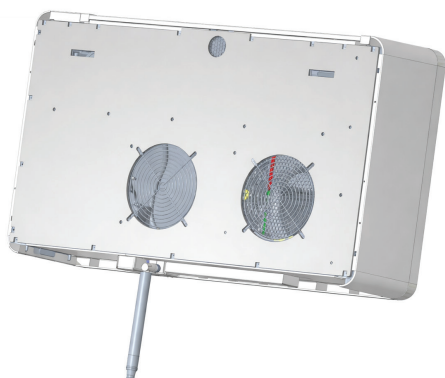
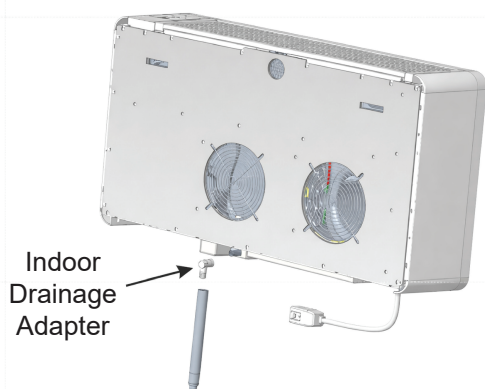
H. Cold Climate Drain Configuration

In cold climate installations, the condensate drain line may be subject to freezing.

To prevent blockage or damage, route the drain line within the wall cavity and discharge it at an appropriate interior or protected location.

Follow these steps:

1. Connect the indoor drainage adapter to the unit's condensate outlet.
2. Route the drain pipe downward, maintaining a continuous slope for proper drainage.
3. Ensure the discharge point is suitable and complies with local building codes and regulations.



Installation

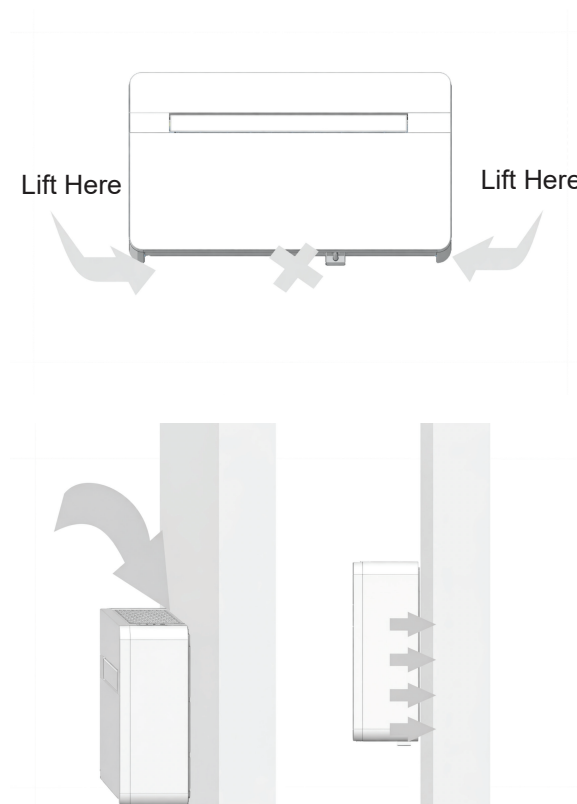
6

I. Mounting the Unit on the Wall Bracket

After confirming that the mounting bracket is securely fastened to the wall and that all electrical and drainage preparations have been completed, proceed with installing the unit.

Follow these steps to mount the unit on the bracket:

1. Lift the unit by holding the lower sides of the chassis.
2. Slightly tilt the unit toward you to align it with the mounting bracket.
3. Hook the unit onto the bracket and gently lower it into place. Ensure the unit is properly seated.
4. Press the unit firmly against the wall.
5. Verify the following:
 - The rear insulation panel is seated with no gaps.
 - The rear plastic air ducts are correctly inserted into the wall sleeves.
 - The rear air channels are properly aligned with the wall openings.
 - No obstructions or misalignment are present.
 - The drain line is properly positioned.



Notes:

- Do not install the unit in high-humidity environments such as laundry rooms.
- Ensure the electrical plug remains accessible after installation.
- Installation must comply with all applicable national and local electrical codes.

Installation

6

J. Configuring External 24V Wall Thermostat Operation

This unit can be configured for control via an external 24V wall thermostat by connecting the supplied adapter interface.

1. Remove the Top Grille Assembly: Carefully remove the top grille to access the internal control components.



2. Disconnect the Internal Control Module:

- Loosen the mounting screws securing the touchscreen control module.
- Gently lift and remove the control module.
- Disconnect the wiring harness by separating the control module's plug (male connector) from the main PCB socket (female connector).

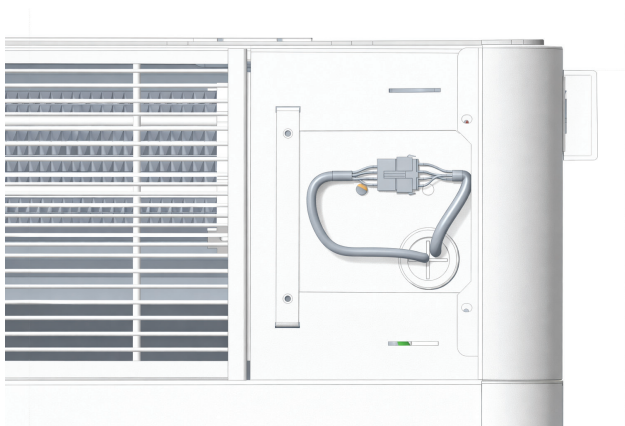


Installation

6

3. Connect the 24V Adapter Harness:

- Connect the 24V adapter harness (male connector) to the main PCB socket (female connector).
- Ensure the connection is fully seated and secure.

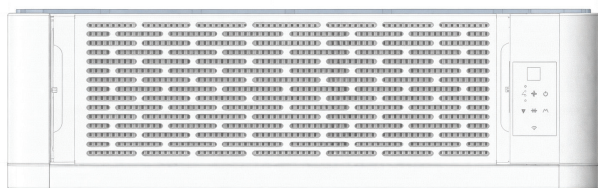


Notes:

- Handle all connectors carefully to avoid damage to pins or wiring.
- Do not force connections; verify proper alignment before insertion.
- Ensure all wiring is routed safely and does not interfere with moving components or panel reinstallation.

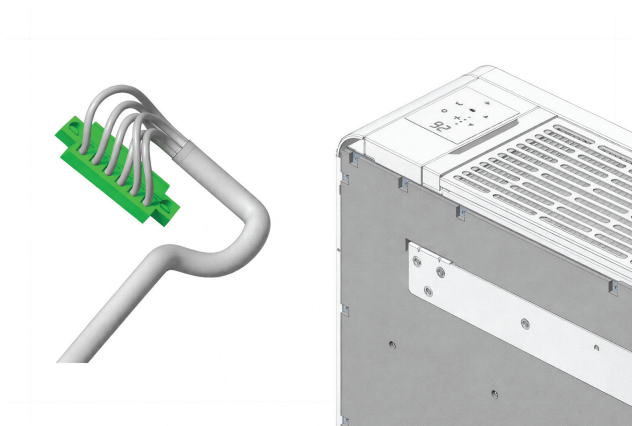
4. Reinstall Internal Components:

- Reinstall the touchscreen control module and secure it in place.
- Reattach the top grille assembly.



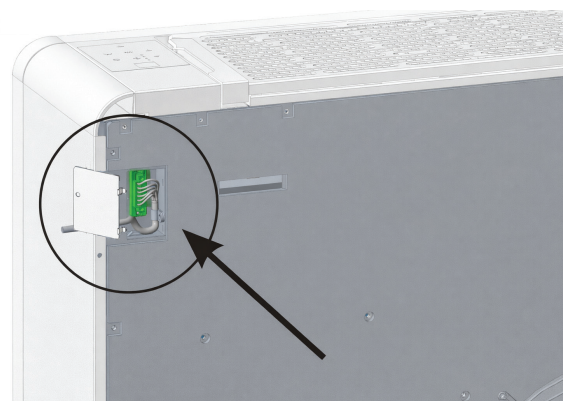
5. Connect Thermostat Wiring:

- Connect the 24V wall thermostat wiring to the provided terminal (male connector).
- Match the wiring according to the terminal markings.
- Ensure all connections are fully seated and locked in place.



6. Route and Secure Thermostat Cable:

- Remove the small metal access cover located on the upper left side of the rear panel.
- Insert the thermostat wire terminal (male connector) into the corresponding rear panel terminal (female connector).
- Secure the thermostat cable using the provided cable clip and screw.
- Ensure the cable is properly routed and free from strain or interference.

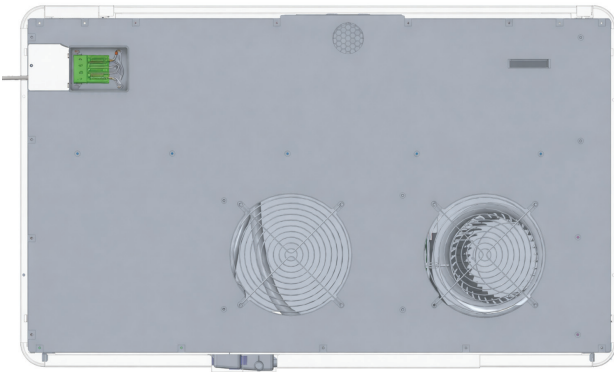


Installation

6

7. Reinstall Rear Cover:

- Reinstall the metal access cover.
- External thermostat configuration is now complete.



Notes:

Included Components

The thermostat terminal (male connector), cable clip, and mounting screw are included with the unit's accessory kit.

Control Behavior After Conversion

After enabling the external thermostat operation:

- The unit's onboard display and touchscreen controls will be disabled.
- The handheld remote control will no longer function.
- The front panel display and indicator lights will remain off during operation.
- In the event of a fault, the front panel display will illuminate to show the error code.

Warning: Electrical Safety

All installation and wiring procedures must be performed with power disconnected. Ensure the unit is fully de-energized before beginning work.

Operating Instructions

7

LCD Icon Overview

The display uses the following icons to indicate operating modes and system status:

Icon	Description	Icon	Description
	Automatic Operation		Airflow Direction
	Cooling Mode		Fan Speed Level
	Dehumidification Mode		Sleep Mode
	Fan-Only Operation		Automatic Fan Speed
	Heating Mode		Set Temperature Display
	Display Light (Optional)		Time Display
	Auxiliary Electric Heater (Optional)		Timer Function
	Control Lock Enabled	-	-

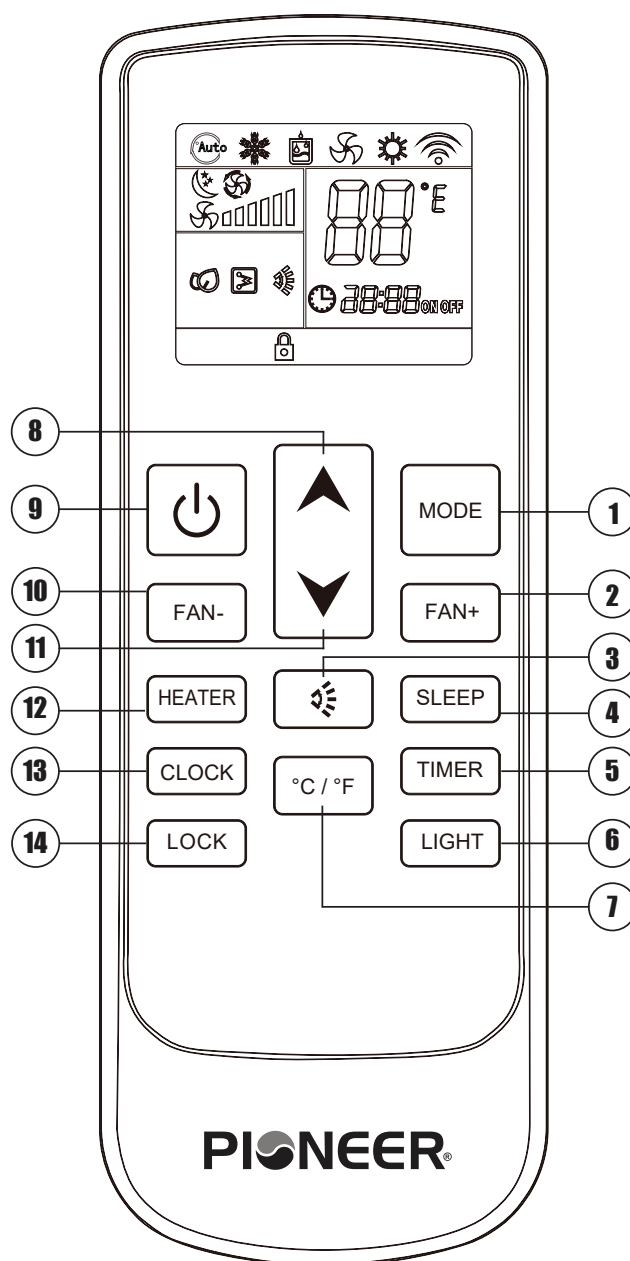
Operating Instructions

7

Remote Control Functions

Each button on the remote control corresponds to a specific function:

1. Mode: Selects the operating mode (Auto, Cool, Dry, Fan, and Heat)
2. Fan Speed (Increase): Increases the fan speed setting.
3. Louver Swing: Adjusts the airflow direction.
4. Sleep: Automatically adjusts the set temperature for improved comfort during sleep.
5. Timer: Sets the unit's automatic start and stop times.
6. Light (Optional): Turns the display light on or off (if equipped)
7. Temp. (°C / °F): Switches the temperature unit between Celsius and Fahrenheit.
8. Up (▲): Increases the set temperature or adjusts time settings.
9. On/Off: Turns the unit on or off.
10. Fan Speed (Decrease): Decreases the fan speed setting.
11. Down (▼): Decreases the set temperature or adjust time settings.
12. Electric Heater (Optional): Activates the integrated electric heater to assist heating performance.
13. Clock: Sets or adjusts the system clock.
14. Lock: Locks or unlocks the remote control to prevent unintended operation.



Operating Instructions

7

Remote Control Battery Installation

Follow these steps to install the batteries for the remote control:

1. Open the battery cover by releasing the latch and lifting gently.
2. Insert two AAA batteries, ensuring correct polarity.
3. Reinstall the battery cover securely.

Check Operation

If the display does not respond after pressing the On/Off button, verify battery installation and replace if necessary.

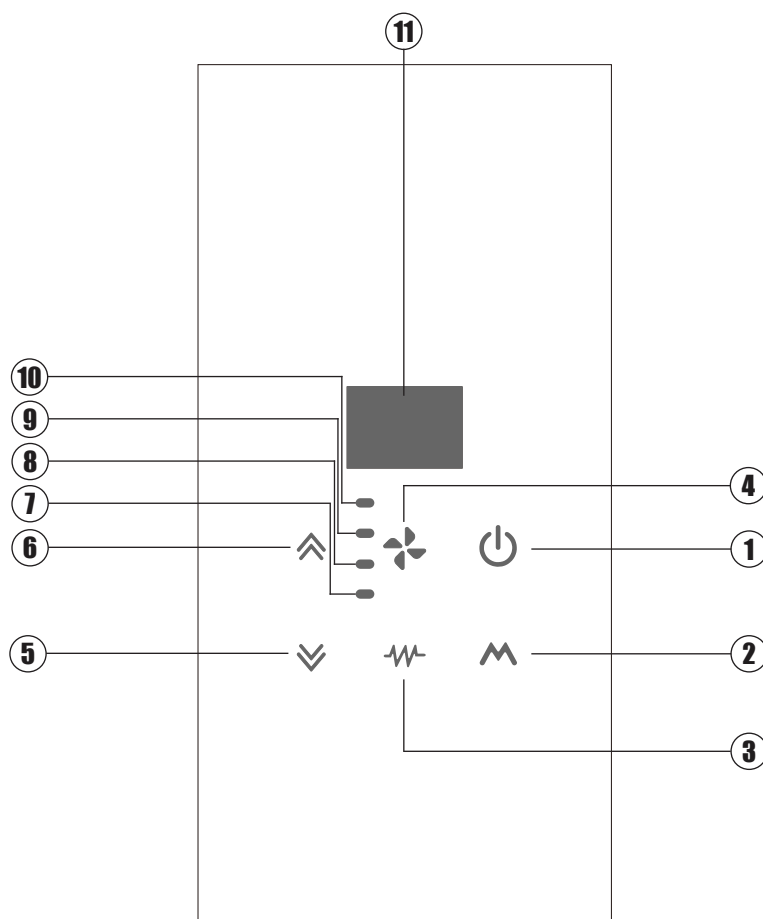
Operating Instructions

7

Control Panel Functions

The unit is equipped with panel controls for basic operation when the remote control is unavailable.

1. On/Off Button: Turns the unit on or off.
2. Mode Button: Selects the operating mode (Cooling, Heating, Fan, Auto, etc.)
3. Electrical Heater Button: Enables or disables the auxiliary electric heater.
4. Fan Speed Button: Adjusts the indoor fan speed.
5. Down (▼) Button: Decreases the set temperature or adjusts time settings.
6. Up (▲) Button: Increases the set temperature or adjusts time settings.
7. High Speed Indicator: Illuminates when the fan is operating at high speed.
8. Medium Speed Indicator: Illuminates when the fan is operating at medium speed.
9. Low Speed Indicator: Illuminates when the fan is operating at low speed.
10. Auto Fan Indicator: Illuminates when the fan speed is set to automatic.
11. Temperature Display Window: Displays system status and temperature information.



Display Behavior

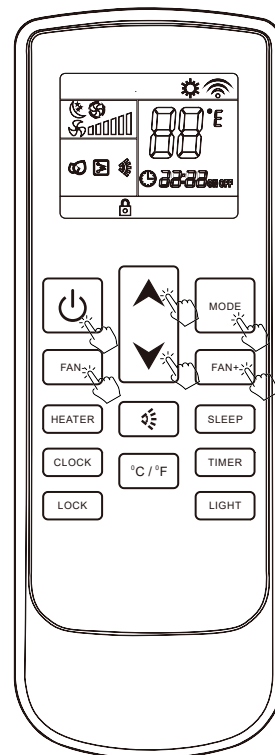
- The display shows both the set temperature and room (ambient) temperature.
- When the temperature is adjusted, the set temperature briefly flashes.
- After a short interval, the display returns to showing the ambient temperature.
- The display may turn off after a period of inactivity and will reactivate upon user input.

Operating Modes

8

Heating Mode

1. Power On: Press the On/Off button to turn the unit on. The system will resume the last operating state.
2. Select Heating Mode: Press "MODE" button and select Heating (☀️ / Heating Mode icon).
3. Set Temperature: Use ▲ / ▼ (Up / Down) to adjust the desired temperature.
4. Adjust Fan Speed: Press "FAN SPEED (+ / -)" to select the airflow level:
 - Low
 - Medium
 - High
 - Auto
5. Power Off: Press the On/Off button to turn the unit off. The selected settings will be stored for future operation.



Cooling Mode

1. Power On: Press the On/Off button to turn the unit on. The system will resume the last operating state.
2. Select Cooling Mode: Press "MODE" button and select Cooling (❄️ / Cooling Mode icon).
3. Set Temperature: Use ▲ / ▼ (Up / Down) to adjust the desired temperature.
4. Adjust Fan Speed: Press "FAN SPEED (+ / -)" to select the airflow level:
 - Low
 - Medium
 - High
 - Auto
5. Power Off: Press the On/Off button to turn the unit off. The selected settings will be stored for future operation.

Operating Conditions

For optimal performance, operate the unit within the following conditions:

Cooling Mode (Maximum):

- Outdoor: 115°F (46°C) DB / 75°F (24°C) WB
- Indoor: 80°F (27°C) DB / 67°F (19°C) WB

Heating Mode (Minimum):

- Outdoor: 17°F (-8°C) DB / 15°F (-9°C) WB
- Indoor: 70°F (21°C) DB

Notes:

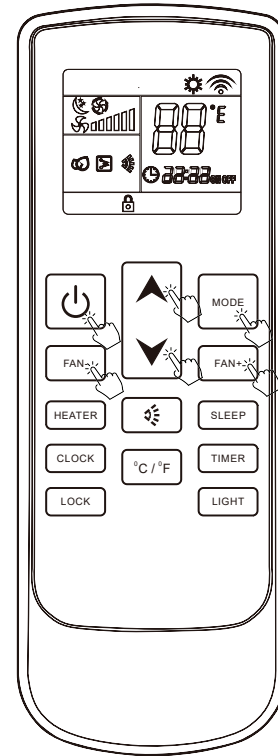
- The unit may require several minutes to reach stable heating or cooling output.
- In Heating mode, a brief delay may occur before warm air is discharged (normal operation).

Operating Modes

8

Dry Mode (Dehumidification)

1. Power On: Press the On/Off button to turn the unit on. The system will resume the last operating state.
2. Select Dry Mode: Press "MODE" button and select Drying ( / Dry Mode icon).
3. Set Temperature: Use ▲ / ▼ (Up / Down) to adjust the desired temperature.
4. Adjust Fan Speed: In Dry mode, the fan speed is automatically controlled and cannot be adjusted. The indoor fan will operate at a low speed to maximize moisture removal.
5. Power Off: Press the On/Off button to turn the unit off. The selected settings will be stored for future operation.



Dry Mode Expected Behavior

- The unit prioritizes moisture removal over temperature control.
- The fan operates at low speed by design.
- Light cooling may occur during operation.

Operating Modes

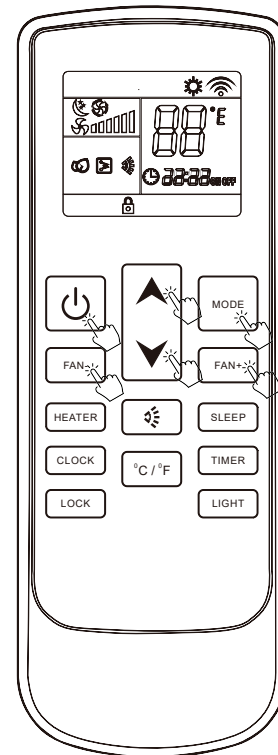
8

Fan Only Mode

1. Power On: Press the On/Off button to turn the unit on. The system will resume the last operating state.
2. Select Fan Only Mode: Press "MODE" button and select Fan Only (🌀 / Fan Only icon).
3. Set Temperature: Use ▲ / ▼ (Up / Down) to adjust the desired temperature.
4. Adjust Fan Speed: Press "FAN SPEED (+ / -)" to select the airflow level:
 - Low
 - Medium
 - High
 - Auto
5. Power Off: Press the On/Off button to turn the unit off. The selected settings will be stored for future operation.

Fan Only Mode Expected Behavior

- No heating or cooling is performed.
- Temperature setting has no effect.
- This mode is intended for air circulation only.



Operating Modes

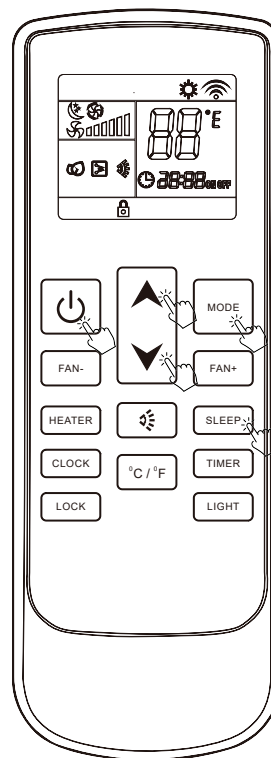
8

Sleep Mode

1. Power On: Press the On/Off button to turn the unit on. The system will resume the last operating state.
2. Select Operating Mode: Press "MODE" button and select Cooling, Heating, or Auto mode. Sleep mode operates in conjunction with these modes.
3. Set Temperature: Use ▲ / ▼ (Up / Down) to adjust the desired temperature.
4. Activate Sleep Mode: Press the "SLEEP" button. The Sleep icon will appear on the display, indicating that Sleep mode is active.

Press the "SLEEP" button again to cancel Sleep mode.

5. Fan Operation: When Sleep mode is active, the indoor fan operates at a low, consistent speed to reduce noise and improve comfort.

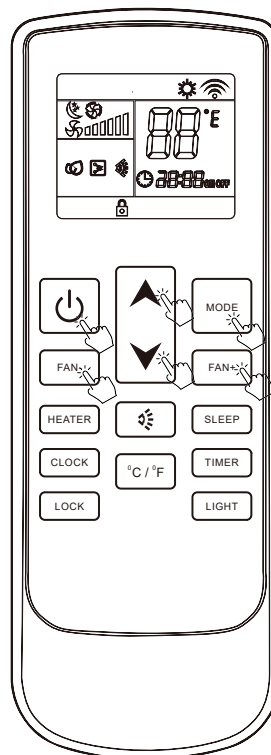


Auto Mode

1. Power On: Press the On/Off button to turn the unit on. The system will resume the last operating state.
2. Select Auto Mode: Press the "MODE" button and select Auto mode. The unit will automatically determine the appropriate operating mode.
3. Automatic Operation: The system continuously monitors room temperature and automatically switches between Cooling mode, Heating mode, and Fan mode to maintain the set temperature.
4. Adjust Fan Speed: Press "FAN SPEED (+ / -)" to select the airflow level:

- Low
- Medium
- High
- Auto

5. Power Off: Press the On/Off button to turn the unit off. The selected settings will be stored for future operation.



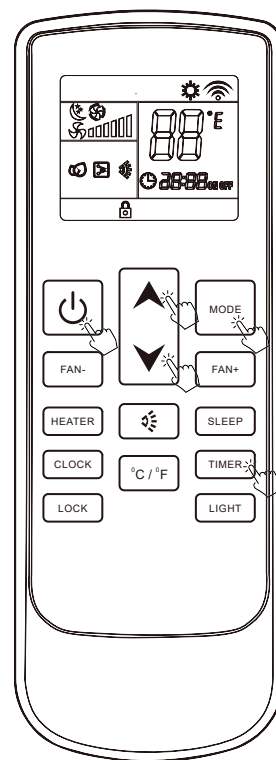
Operating Modes

8

Timer Off Function

1. Power On: Press the On/Off button to turn the unit on. The system will resume the last operating state.
2. Select Operating Mode: Press "MODE" button and select the desired operating mode.
3. Set Temperature: Use ▲ / ▼ (Up / Down) to adjust the desired temperature.
4. Set Timer Off:
 - Press the "TIMER" button to initiate Timer Off function.
 - Use ▲ / ▼ (Up / Down) to set the desired shut-off time.
 - Time adjusts in increments (per model configuration)
 - Press "TIMER" again to confirm.

When the set time is reached, the unit will automatically turn off. Press the "TIMER" button again before the countdown ends to cancel the Timer Off function.



Timer On Function

1. Power Off: Ensure the unit is turned off.
2. Set Timer On:
 - Press the "TIMER" button to initiate Timer On function.
 - Use ▲ / ▼ (Up / Down) to set the desired start time.
 - Configure the desired mode, temperature, and fan speed.
 - Press "TIMER" again to confirm.

When the set time is reached, the unit will automatically start with the selected settings. Press the "TIMER" button again before activation to cancel the Timer On function.

Timer On/Off Function Expected Behavior

- The unit remains off until the scheduled start time.
- The system starts using the pre-configured settings.
- Timer On can be canceled at any time before activation.

Operating Modes

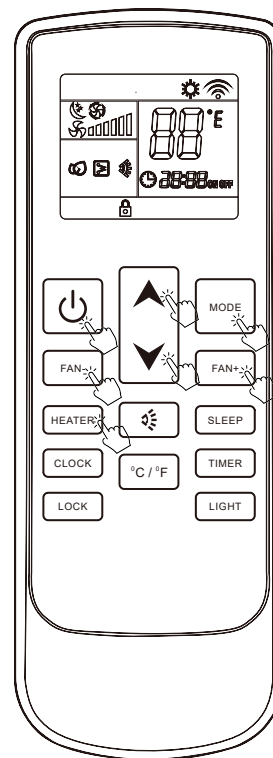
8

Electric Heater Function (Optional)

1. Power On: Press the On/Off button to turn the unit on. The system will resume the last operating state.
2. Select Heating Mode: Press the "MODE" button and select Heating mode.
3. Set Temperature: Use ▲ / ▼ (Up / Down) to adjust the desired temperature.
4. Adjust Fan Speed: Press "FAN SPEED (+ / -)" to select the airflow level:
 - Low
 - Medium
 - High
 - Auto
5. Activate Electrical Heater:
 - Press the "HEATER" button to enable the auxiliary electric heater.
 - The heater icon will appear on the display when active.
 - Press the "HEATER" button again to turn off the function.
6. Power Off: Press the On/Off button to turn the unit off. The selected settings will be stored for future operation.

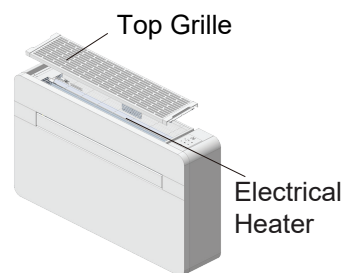
Electric Heater Function Expected Behavior

- The electric heater provides supplemental heating to improve performance in low ambient conditions.
- This function only operates in Heating mode.
- Power consumption increases when the electrical heater is active.
- The unit may automatically cycle the heater on and off to maintain the set temperature.



Electrical Heater Location

The auxiliary electrical heater (if equipped) is located at the top of the unit and is protected by the top grille.



Notes:

- This feature is model-dependent and may not be available on all units.
- The electrical heater is intended as an auxiliary heat source, not a primary heating system.
- Ensure the unit is installed on an appropriate electrical circuit capable of supporting increased load.

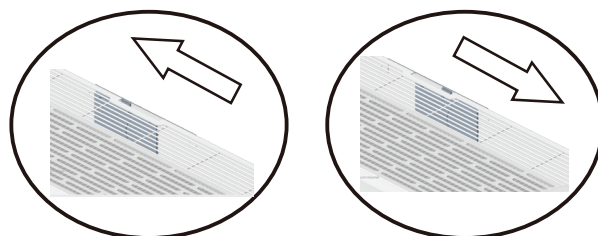
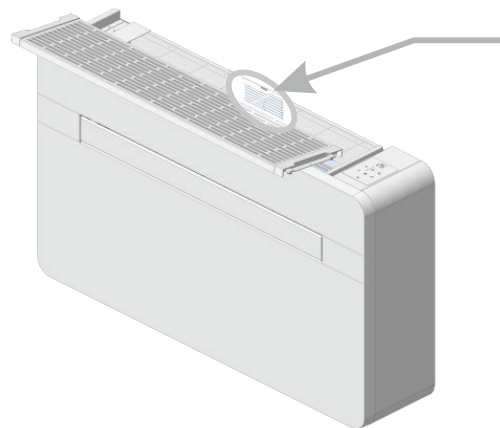
Operating Modes

8

Fresh Air System

The unit is equipped with a fresh air intake feature that allows outdoor air to be introduced to the room.

- Open or close the fresh air inlet using the control on the top of the unit.
- When open, outside air is drawn into the room to improve ventilation.



Wi-Fi Connection & App Setup

9

A. Download the App

Download the Pioneer Airlink app from your device's app store, or scan the QR code provided.



Download iOS App



Download Android App

B. Account Setup

1. Create an account and login.
2. Add your device within the app.
3. Connect to your local Wi-Fi network by following the on-screen instructions.

C. Wi-Fi Pairing

1. Enter Pairing Mode: Press the "LOUVER SWING" button on the remote control five times within 5 seconds to enter pairing mode. If it's your first time pairing, the indicator flashes slowly.
2. Switch Pairing Mode (if needed): Press the "LOUVER SWING" button again on the remote control five times within 5 seconds to switch to fast flashing mode.
3. Complete Pairing: Follow the app instructions to complete the connection.
4. Clear Pairing: After successfully pairing, press the "LOUVER SWING" button again on the remote control five times within 5 seconds to reset or clear the Wi-Fi pairing.

Once connected, the unit can be controlled remotely through the mobile app.

Maintenance

10

Filter Cleaning

Clean the air filters every two weeks or as needed to maintain performance and air quality.

Follow these steps to clean the filter:

1. Turn off the unit and disconnect its power supply.
2. Remove the air filter(s) as indicated.
3. Wash with clean water. Avoid using hot water.
4. Allow the filters to dry completely before reinstalling.
5. Reinstall filters securely in their original position.

External Cleaning

- Turn off the unit and disconnect its power supply.
- Wipe the surfaces with a soft, damp cloth.

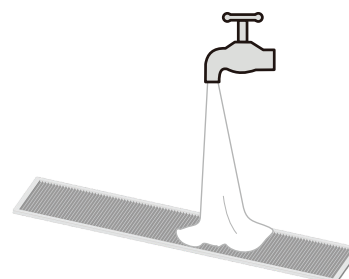
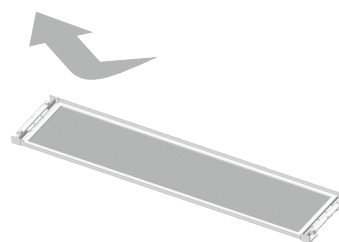
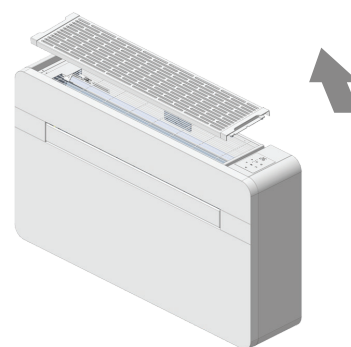
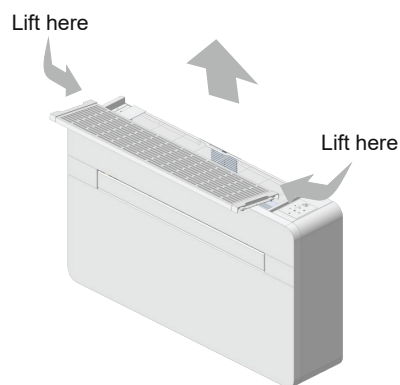
Notes:

Important

- Do not operate the unit without filters installed. This may cause damage and reduce performance.

Do Not:

- Use abrasive cleaners or solvents.
- Use excessively wet cloths or allow water to enter the unit.



Troubleshooting

11

Common Issues & Solutions

If the unit is not operating as expected, review the following before contacting service.

Unit Does Not Turn On

- Check that power is connected and the circuit breaker is not tripped.
- Verify the On/Off button has been pressed.
- Confirm the timer settings are not preventing operation.

Insufficient Cooling or Heating

- Ensure the temperature setting is appropriate.
- Clean the air filters if dirty.
- Check that air inlet and outlets are not blocked.
- Close doors and windows to prevent heat gain/loss.

Unit Delays Start-Up

- A delay of up to 3 minutes after restart is normal.
- This is a built-in protection feature for the compressor.

Water Leakage

- Ensure the drain hose is properly installed and unobstructed.
- Verify the unit is installed level.
- Check for excessive humidity in the room.

Unusual Odor

- Odors may result from accumulated dust, moisture, or room contaminants.
- Clean the air filters and allow the unit to run in Fan mode.

Remote Control Not Working

- Replace the batteries if depleted.
- Ensure the batteries are installed with correct polarity.
- Confirm there are no obstructions between the remote control and unit.

Additional Considerations

- High humidity from the environment (walls, carpets, furnishings) may affect performance.
- Improper installation can impact operation and efficiency.
- Blocked airflow or restricted grilles will reduce system performance.

When to Contact Support

- Unit does not power on after checks.
- Repeated breaker trips.
- Persistent water leakage.
- Error codes displayed.

Troubleshooting

11

Error Codes

Indoor Unit Faults

- A1 - Indoor control board (EEPROM) fault
- A2 - Indoor fan malfunction
- A3 - Water temperature sensor fault
- A4 - Indoor coil temperature sensor fault
- A5 - Indoor ambient temperature sensor fault

Outdoor Unit & System Faults

- A8 - Outdoor control board (EEPROM) fault
- C2 - Outdoor coil temperature sensor fault
- C3 - Outdoor ambient temperature sensor fault
- C4 - Outdoor fan malfunction

Refrigeration & Valve Faults

- E5 - Four-way reversing valve fault
- E6 - Low refrigerant (charge deficiency)

Compressor & Drive Faults

- b4 - Compressor start failure (phase loss or reverse phase)
- b5 - Compressor synchronization fault
- b6 - Inverter power module (IPM) fault
- b8 - Discharge (exhaust) temperature sensor fault

Ambient Temperature Protections

- E2 - Cooling mode: Outdoor ambient temperature too low
- E3 - Heating mode: Outdoor ambient temperature too high

Inverter / Electrical Drive Faults

- C5 - DC bus overvoltage protection
- C6 - DC bus undervoltage protection
- C7 - Phase overcurrent fault
- C8 - Abnormal current detection

Protection & Safety Shutdowns

- FL - Drainage system full (water level protection activated)
- d1 - Outdoor unit overcurrent protection
- d2 - Compressor phase current protection
- d3 - Supply voltage protection (over/under voltage)
- d4 - DC bus voltage protection (over/under voltage)
- d5 - IPM over-temperature protection
- d6 - Discharge temperature overheat protection
- d7 - Indoor coil anti-freeze protection (Cooling mode)
- d8 / E1 - Outdoor coil overheat protection

 Service Required

 Temporary Protection

Notes:

- Some codes indicate normal protective behavior, not failure (e.g., voltage or temperature protections).
- The unit may resume operation automatically once conditions return to normal.
- If an error persists after power cycling the unit, service may be required.

Contact a qualified technician if:

- The same error code repeats frequently.
- The unit does not resume operation after reset.
- Electrical or compressor-related faults are indicated (b-, C-, or d-series codes)

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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