

AIO® Wall Mounted (Gen 2)

Installation Guide



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DISCLAIMER



IMPORTANT – TRAINING IS REQUIRED PRIOR TO PERFORMING INSTALLATION.

While this guide outlines the general installation requirements for the unit, it does not replace required installer training. Before commencing installation, the project manager must contact the INNOVA VIP Department at (212) 204-2700 to coordinate training for the installer.

Failure to ensure that installation is performed by INNOVA-trained personnel may result in improper operation or equipment damage, and may void the warranty.

Training may be conducted in person or remotely (online).

This overview serves as the official installation training and may include overview videos, best practices, and system requirements

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Illustrations may not be to scale, and all information and dimensions stated herein are subject to change at any time at the sole discretion of INNOVA. Benefits described herein apply only to the extent that the product is installed correctly in the correct application and used for its intended purpose.

INNOVA is constantly innovating and improving its products and reserves the right to modify product design and specifications without notice, and without incurring any obligations.

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CERTIFICATION

The AHRI Certified® participation in the verification of individual units is available at www.ahridirectory.org

ETL Listed. Control Panel
60335-2-40:2022 Edition
Ed.4 | UL 60335-1:2013
Ed.2

MODEL NUMBER

The code identifies the unit's voltage, accessories, and options. See the diagram below for more details.

Figure 1. AIO® Model Numbering



* 8" Vents : Just general
6" Vents : Generation
** Field convertible to 90°
*** AIO® Vertical Stack X

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1. READING THIS DOCUMENTATION

Some language and symbols in this documentation have specific meanings.

1.1 Documentation-specific language

Reference to the product

Any reference to “the unit” is meant to refer to the AIO® Wall Mounted (Gen 2) unit.

Unit orientation

All directions in this guide (left, right, top, and bottom) are given from the perspective of facing the unit.

Role definitions

This guide is primarily intended for installers. The roles of end users and service technicians are also defined here for reference.

- **User:** a non-expert who can safely operate the unit and perform basic diagnostics and maintenance.
- **Installer:** a trained and certified HVAC installation technician responsible for the correct installation of the unit as indicated in the installation guide and in accordance with all local and national codes.
- **Service technician:** a trained and qualified HVAC service technician (including OSHA-required safety practices and industry best practices) as required by national and local codes.
- **Trained HVAC technicians:** a group term for both installation and service technicians.

1.2 Icons and symbols

Warnings and annotations are provided throughout this guide. It is essential to read each carefully and follow the instructions stated.

Warning panels

The warning panels represent the level and immediacy of risk. Each warning panel displays a background color and a signal word.

DANGER

The red panel with the **DANGER** signal word indicates a hazardous situation that, if not avoided, will result in imminent death or serious injury.

WARNING

The orange panel with the **WARNING** signal word indicates a potential hazard that, if not avoided, could result in death or serious injury.

CAUTION

The yellow panel with the **CAUTION** signal word indicates a hazardous situation that, if not avoided, could result in minor to moderate injury or property damage.

Warning pictograms

The warning pictograms are used in conjunction with the warning panels.



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Annotation icons

Annotations are provided throughout this guide. It is essential to read each carefully and follow the instructions stated.



Indicates critical information for correct operation or installation.



Indicates supplemental information, tips, or useful background information.

2. SAFETY GUIDELINES – READ BEFORE INSTALLING

This guide outlines the steps necessary to install the AIO® Wall Mounted (Gen 2) unit safely and securely. By following these instructions, the risk of damage to the equipment can be significantly reduced.

The installer is responsible for ensuring that the unit is installed safely and securely, in full compliance with all applicable local and national codes.

The precautions in this guide supplement, rather than replace, established safety practices. In case of conflict, always follow the more stringent requirement.

Only a trained HVAC installation technician may install this unit.

Read the entire installation guide before installing the unit. Follow all safety notices, warnings, and labels carefully. Failure to do so may result in property damage, serious injury, or death.

2.1 Fire/explosion hazards

WARNING

- The unit shall be stored in a room without continuously operating ignition sources (for example, open flames, an operating gas appliance, or an operating electric heater).
- Do not use means to accelerate the defrosting process or to clean, other than those recommended by the manufacturer.
- In the event of abnormal conditions (such as a strange or burning smell, noise, or smoke), turn off the unit and disconnect it from its power source immediately. Report the issue immediately to your INNOVA representative or distributor.
- Servicing shall be performed only as recommended by the manufacturer.

2.2 Refrigerant hazards

DANGER

- Flammable refrigerant is used. Only trained HVAC technicians are authorized to handle refrigerant charging, recovery, or disposal.
- Do not puncture the refrigerant copper tubing.
- Do not expose the refrigerant copper tubing to heat sources, sparks, or open flames.
- Do not use open flame or high-heat sources for leak detection (for example, halogen lamps); fire or explosion can result. Only use approved electronic detectors when checking for refrigerant leaks.



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CAUTION

- Leak testing must be completed after installation is complete.
- The unit uses flammable refrigerant (R32). If the unit does not cool or heat, it may indicate a refrigerant leak. If a leak is detected, do not touch the unit. Ventilate the area and immediately consult the building manager or unit manufacturer. Refrigerant may cause cold burns.
- When handling the unit, verify that no other substance (including air) other than the contained R32 refrigerant enters the refrigerant circuit.
- Do not release refrigerant into the atmosphere; follow environmental regulations. In the US, refrigerant handling must comply with the EPA Clean Air Act Section 608 (certified personnel, recovery, reclaim, and recycling requirements).
- Follow all local environmental regulations for refrigerant handling and disposal.

2.3 Hot surface hazards

DANGER

- Only trained HVAC technicians are permitted to access internal components while the system is hot.
- Hot parts. Do not operate the unit with the cover removed. Certain components (compressor, coils, discharge piping, and other parts) may reach high temperatures during operation.

CAUTION

- Allow sufficient time for surfaces to cool before handling or servicing. Contact with hot parts can cause burns or damage to equipment.
- Keep flammable materials away from hot surfaces at all times.
- Use appropriate PPE (gloves, protective clothing) when touching or working near hot components.

2.4 Electrical hazards

DANGER

- Only trained HVAC technicians are authorized to install or service electrical components.
- Disconnect all electric power, including remote disconnects, before installation, maintenance, or servicing. Verify that power to the entire system is down, including any peripherals, third-party devices, power backup systems, and other devices operating in the unit network..

WARNING

- All connections must be prepared only by a certified electrician.
- Wiring and grounding must comply with the National Electrical Code (NEC) and all applicable local codes and regulations. Improper wiring or loose connections may cause overheating, fire, or electric shock.
- Connect only to a dedicated branch circuit of proper ampacity, protected by a correctly sized overcurrent device (per unit nameplate and wiring diagram).

- Follow OSHA procedures.
- Use only star that match th
- Do not use a or connect m as this may c
- Do not modifi pin; always c power supply
- Do not bundl power cord. I heat sources fire or electric
- Do not opera electrical con damaged, it manufacture
- Do not connect lightning rods
- Ensure electr secured befor
- In the event c the unit off a source imme
- Verify that th electrical ser equipment re unit. Do not o improper vol Total Harmon premature fa resulting from inadequate e equipment w Distortion) le warranty.

2.5 Moving parts

- Moving parts cover remov
- Ensure power components before acces motors, and start automa

- Keep hands, away from fa

Contact with moving parts can cause serious injury.

- Do not remove, bypass, or disable protective covers, guards, or safety interlocks..

CAUTION

- Only trained HVAC technicians are authorized to service the unit with the panels removed.
- Reinstall all panels before operation and keep hands away from the fan area to prevent injury.

2.6 Handling and mechanical hazards

CAUTION

- Heavy load. Two or more people are required to lift and mount the unit; respect safe lift limits to prevent injury.
- Protect control panel surfaces from being pressed with tools or sharp objects; use fingers only to prevent damage.

CAUTION

- Edges inside the unit may be sharp - wear hand protection when handling sheet-metal parts to prevent cuts.

2.7 Installation environment hazard

CAUTION

- Do not install above an elevation of 8,858 ft (2,700 m) unless specifically approved by the manufacturer — reduced air density may impair safe operation.
- Indoor installation only. Do not install outdoors or in locations exposed to rain, snow, or direct weather.
- When working at heights, follow all applicable fall protection regulations and guidelines. Use guardrails, harnesses, and barricade the area below to protect against falling objects.
- Verify the supporting structure can carry the full unit weight and operating loads, including vibration and dynamic loads.
- Install using proper anchors, fasteners, and torque.
- Keep the unit upright at all times; never lift it by its covers, panels, or refrigerant copper tubing.
- Protect the unit from impact, vibration, tipping, dust, and corrosive atmospheres during installation and operation.
- Do not install or store the unit in rooms with continuously operating ignition sources (for example, open flames, gas appliances, electric heaters).
- Maintain required service clearances and ensure ventilation openings remain unobstructed. Obstruction can cause malfunction or overheating.
- Dispose of all packaging materials safely to prevent suffocation, tripping hazards, or fire hazards.
- Follow all manufacturer instructions and applicable local building codes.

WARNING

- Improper installation environments can result in fire, explosion, refrigerant leakage, equipment damage, or personal injury.
- Do not operate the unit in or near an environment under construction or renovation. Dust and debris can enter the unit, causing malfunctions and reduced performance..

3. AIO® WALL MOUNTED OVERVIEW

3.1 Components

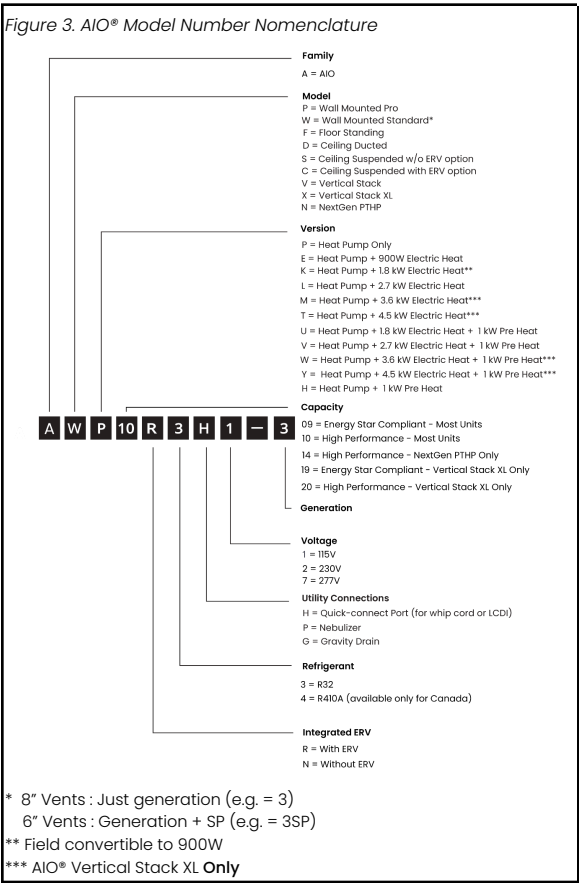
Figure 2. Components



1	Onboard Touch C
2	Air Outlet Deflecto
3	Front Cover Panel
4	Inlet Grille
5	Decorative Side P
6	Outdoor Air Intake
7	Outdoor Air Outlet
8	Rubber Drain Hosi
9	Anti-Lift Bracket
11	Terminal Block
12	Air Filter

3.2 Model Number Nomenclature

The code identifies the family, model, version, size, voltage, accessories, refrigerant type, and ERV option. See the diagram below for details.



4. RECEIVING AND HANDLING THE UNIT

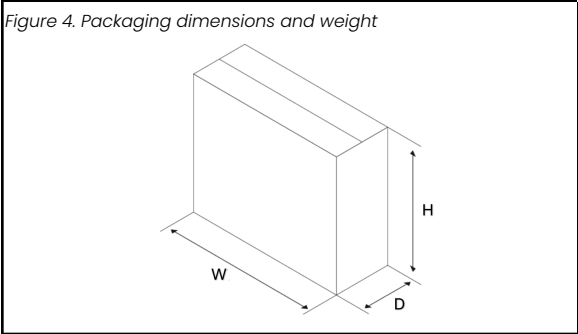
The following contains information about preparing for the unit's installation.

4.1 Shipping configuration

The unit and mounting bracket are shipped in a single carton. Other accessories are shipped separately.

4.2 Packaging dimensions and weight

The following provides the dimensions of the packed unit and its gross weight.



- Width (W): 43.30 in (1099.8 mm)
- Height (H): 26.38 in (670.1 mm)
- Depth (D): 10.04 in (255 mm)
- Weight: 99.21 lb (45 kg)

4.3 Unpacking

- The unit must be tilted at an angle when removing the welds and caps.
- The packaging must be opened by a contractor if it was not, not by the contractor.

Do not use other tools to cut the circumference.

Follow this procedure

1. Inspect the packaging
- Upon delivery, inspect the unit for damage.
 - If there is damage, report it to the distributor.
 - If the unit is damaged, do not use it on the delivery site. INNOVA will replace the unit.

If the unit is damaged, at least one person must allow the unit to be replaced.

2. Remove the unit

- Carefully remove the unit while keeping the unit upright.

- Always use the correct lifting technique to lift the unit.
- The unit is heavy (compressor included) when lifted.
- Failure to use the correct lifting technique will result in back injury.

- Check the refrigerant level and the refrigerant detector.
- If refrigerant is low, check the carton:
 - Do Not
 - Repair
 - INNOVA

3. Perform basic

If the carton was damaged, physically inspect the unit.

both heating and cooling modes. Report any irregularities or operational issues immediately to your INNOVA representative or distributor.

4. Verify package contents.

Verify the contents of the carton using the [components list](#) to ensure that all components are present. If any items are missing, contact your INNOVA representative or distributor immediately.

4.4 Inspecting the unit

After unpacking the unit, thoroughly inspect it for damage prior to installation:

1. Access the unit's nameplate (located on the right side of the unit and on the black electric cover), and ensure that it matches the order and shipping documents.
2. Inspect the unit and all accessories for any damage that may have occurred during shipping.

If the unit appears damaged:

- a. Remove the outer covers to inspect for underlying damage.
- b. Photograph all damage and all sides of the unit to support a damage claim.
- c. Clearly document the damage on the freight bill.
- d. Notify your INNOVA representative or distributor.



To remain eligible for a claim, all damage must be reported within two weeks of delivery.

5. SITE PREPARATION

5.1 Pre-Installation Checklist

Before installing an AIO® unit, review the following checklist and ensure that all of the listed items are true.

- ☐ Make sure you have approved louvers for external venting. Use of any grille or louver assembly other than those approved may cause the unit to overheat and result in a fire. It can also lead to water damage and/or performance issues and will void the warranty. See [Approved Louvers](#) for louver specifications.
- ☐ Make sure to download and print the correct template for the louver you are using. Some louver assemblies require holes drilled in slightly different places to accommodate the design. You can access templates by visiting innova.co/templates. If you are not 100% sure that you have the correct template, discuss it with your distributor or INNOVA.
- ☐ Ensure that the installation location provides sufficient clearance around the unit. For specific clearance requirements, see [Clearances](#).
- ☐ Ensure that the installation location is at least 41" (1041.4 mm) away from devices that receive or transmit electromagnetic radiation.
- ☐ Ensure that the wall at the installation location can support the weight of the AIO® Wall Mounted unit.
The wall must meet one of the following conditions:
 - Contain internal studs, allowing at least two of the bracket screws to be anchored into studs.
 - Be constructed of a solid load-bearing material (such as concrete or masonry) capable of supporting the full weight of the unit with appropriate anchors.

To check for stud

Position the mount whether studs are where the bracket

- ☐ Check if there with the drain D). If there is drain hole thro
- ☐ Ensure that or is in place at t
 - A ground rating, loc unit.
 - The wall i with acco connecti template
- ☐ Ensure that th of the building louvers. We re (914.4 mm) o the louvers fo
- ☐ Ensure that th will block the AIO® Wall Mou



- Where prac direct sunlig room-air ter inaccurate operation.

5.2 Clearance

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- **Top Clearance**
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- **Bottom Clearance**
There must be clearance bet
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 - Allow the
 - Allow for
 - Avoid cor
- **Side Clearance**
The AIO® Wall contact with a produces sligh

prevent vibration-related noise, a minimum clearance of 1" (25.4 mm) is required on each side. However, for ease of installation and removal, a clearance of 2½" (63.5 mm) on either side is recommended.

- **Front Clearance**

A minimum of 30" (762 mm) of unobstructed space is required in front of the AIO® unit to ensure proper airflow. Because the supply air vent is located on the front panel, any obstruction can inhibit performance and reduce efficiency. Be sure to keep the area clear of curtains, furniture, plants, or any other objects that could block the airflow.

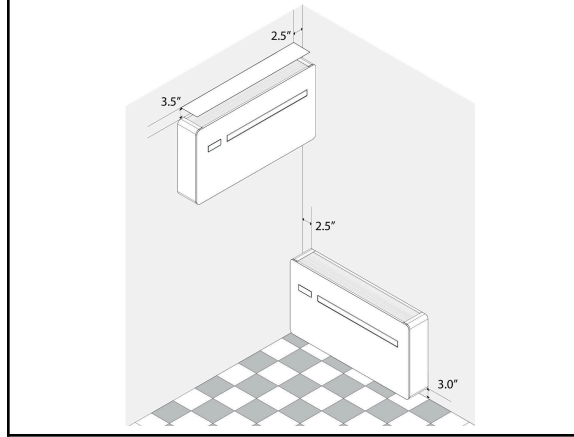
- **Rear Clearance**

The rear of the unit must be installed flush against the wall, with no gaps between the unit and the wall surface. Any gap can allow unconditioned air to enter the unit, potentially causing short cycling, reduced efficiency, and improper humidity control.

- **Exterior Clearance**

There must be a minimum of 36" (914.4 mm) clearance in front of the exterior louvers. This is to ensure proper airflow from the louvers.

Figure 5. Clearances



5.3 Tools and materials needed

Ensure that you have the following tools and supplies on hand before you start the installation:

- Power drill (and hammer drill, if necessary) with assorted bits, paddle bits, and hole saws.
- Impact driver with assorted driver bits.
- At least four 1/4" (6.4 mm) load-bearing wall anchors, each capable of supporting at least 50 lbs (22.7 kg) and removable without damaging the wall.
- Level (preferably a digital level).
- Silicon sealant with applicator (for sealing around external wall penetrations).
- UL-compliant air sealing tape and/or HVAC mastic or sealant (for airtight sealing of ducts and penetrations, as required by code).
- Wiring tools.
- Insulated foam board panels (for PTAC replacement with the AIO® Wall Mounted Pro unit).
- PVC piping (required for external drain installations, long enough to extend beyond the exterior wall at the installation site).
- Mirror (for visual inspection behind the unit).
- Printed template for mounting the bracket

Materials provided

The AIO® Wall Mounted Pro unit includes the following components:

- AIO® unit
- Two anti-lift brackets to help maintain unit movement (see [Affixing the Unit to the Wall](#))
- Wall-mounting template (see [Affixing the Unit to the Wall](#))

6. INSTALLING THE UNIT

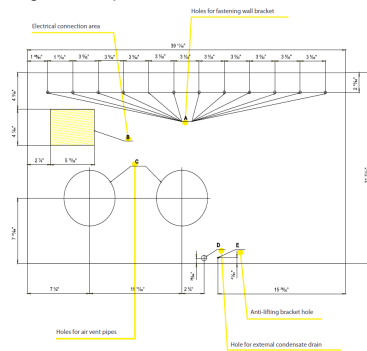
To install the AIO® Wall Mounted unit:

1. [Affix the template to the wall.](#)
2. [Prepare the vents.](#)
3. [Affix the wall bracket to the wall.](#)
4. [Attach the exterior louvers.](#)
5. [Prepare a condensate drain.](#)
6. [Prepare the electrical connection.](#)
7. [Check for air leaks.](#)
8. [Mount the AIO® unit on the wall bracket.](#)
9. [Fasten the Anti-Lift Bracket.](#)
10. [Connect the unit to the condensate drain.](#)
11. [Connect the unit to the power source.](#)
12. [Configure the AIO® Wall Mounted unit.](#)
13. [Test the unit.](#)
14. [Certify the installation.](#)

6.1 Affixing the template to the wall

Before beginning the installation, affix the appropriate template to the wall to mark the correct placement for the wall bracket and vent holes.

Figure 6. Affixing the template to the wall



To affix the template:

1. Ensure that you have downloaded and printed the correct template.
 - a. Templates are available at innova.co/templates
 - b. Some louver assemblies require holes to be drilled in different locations.
 - c. If you are unsure as to whether or not you have the correct template, contact your distributor or INNOVA.
2. Tape the template to the wall.
 - a. Position the template in the exact location you want to install the unit.
 - b. Use a level to ensure the template has a 1.25-2% slope down towards the right.
 - A digital level is recommended for greater accuracy.
 - If using a spirit level, confirm the bubble is slightly off-center to the left. Use a ruler to verify that the slope does not exceed 1/8" (12.7 mm).
 - c. Use painter's tape to affix the template to the wall.



The unit must be level to operate properly. An uneven installation may cause water leakage, especially in humid conditions.

6.2 Preparing the vents

To prepare the vents:

1. Make vent holes.
2. Install vent sleeves.

Drilling Vent Holes



Before drilling any holes, ensure there is no electrical wiring or other utilities in the area. Drilling into these can result in death, serious injury, or property damage.

To drill the vent holes:

1. Inspect the borehole location to ensure it does not intersect with:
 - Live electrical wires
 - Load-bearing structural members
 - Exterior air conditioning ductwork
2. Select the appropriate drill bit for the material on the wall material.
3. Choose the correct drill bit size (152.4 mm), 7/8" (19.0 mm), depending on the required airflow.
4. Align the drill bit with the template markings on the template.
5. Drill the borehole at a 2°-4° downward angle. This helps prevent water from entering through the vent.



Although the risk is low, drilling into a wall does not guarantee it is safe under extreme weather conditions like hurricanes.

Installing the vent sleeves

To install the sleeves:

1. Insert the vent sleeves into the boreholes.

Refer to the sleeve manufacturer's instructions for proper fit and alignment.

2. Ensure the sleeve edges are flush with the interior wall surface or wall bracket.

Use silicone sealant to fill any visible gaps between the sleeve and the borehole.

3. Seal all around the sleeves to eliminate any air gaps.

Apply a continuous bead of silicone around the entire perimeter—both inside and outside—to ensure a completely airtight seal.

CAUTION

If the vent sleeves are not properly sealed, the unit's fan may draw insulation or exterior air into the system, potentially causing performance issues or damage.

6.3 Affixing the Wall Bracket to the wall

The wall bracket supports the full weight of the AIO® Wall Mounted unit. It must be securely installed to ensure both safety and proper operation.

WARNING

- The AIO® Wall Mounted Unit must be securely mounted according to the instructions below.
- **Failure to do so may result in death, serious injury, or property damage.**

To install the wall bracket:

1. Position the bracket:

- a. Align the wall bracket with the mounting template. When the unit is installed, it should completely cover the bracket.
- b. Use the markings at the top right of the template to position the bracket correctly.
- c. Ensure that the holes on the wall bracket align precisely with the corresponding hole markings on the template.

2. Select a Mounting Method:

There are two approved methods for securing the wall bracket:

- [Stud and Anchor Combination Method \(Recommended\)](#)
- [Full Anchor Method](#)

To secure the bracket using the Stud and Anchor Combination Method:

a. Attach one side:

- Secure one side of the bracket to a wall stud.
- Use a level to verify that the bracket is aligned with the slope of the template before continuing.

b. Attach the other side:

- Secure the second side of the bracket to another wall stud.
- Confirm that the bracket remains properly aligned with the template.

c. Secure the bracket to the wall

Use a minimum of 6 screws to secure the wall bracket to the wall:

- Two of the screws must go into the wall studs. These provide the primary structural support.
- The two outermost holes on the wall bracket must be used. Screwing these down prevents the bracket from shifting.
- The remaining four holes may be fastened to drywall using four ¼" (6.4 mm) load-bearing wall anchors that support at least 50 lbs (22.7 kg) and can be removed cleanly from the wall.

d. Make sure the wall is level

To secure the bracket:

a. Secure all anchors.

Use ¼" (6.4 mm) load-bearing wall anchors that support at least 50 lbs (22.7 kg) and can be removed cleanly from the wall.

b. Make sure the wall is level



Do not damage the wall.



The two outermost holes on the bracket must be used to align the bracket laterally.

3. Verify level and alignment



The wall must be level to ensure proper operation. If the wall is not level, the bracket must be shimmed to be properly aligned.

a. Ensure the wall is level

b. Double-check alignment with the template

4. Seal the bracket

a. Apply a continuous bead of silicone sealant around the bracket to ensure it meets the wall.



Align the bracket with the mounting template.

The wall bracket markings are located on the top of the template.

To install the bracket:

1. Attach one side:

- Secure one side of the bracket to a wall stud.
- Use a level (preferably digital) to verify that the bracket is perfectly level before continuing.

2. Attach the other side:

- Secure the second side of the bracket to another wall stud.
- Confirm that the bracket remains level.

3. Secure the bracket to the wall

- Use a minimum of 6 screws to secure the wall bracket to the wall.
 - Two of the screws must go into the wall studs. These provide the primary structural support.
 - The two outermost holes on the wall bracket must be used. Screwing these down prevents the bracket from shifting.
 - The remaining four holes may be fastened to drywall using four ¼" (6.4 mm) load-bearing wall anchors that support at least 50 lbs (22.7 kg) and can be removed cleanly from the wall.
- Make sure the bracket is pulled tight against the wall with no visible gaps.

4. Verify level and tightness



The wall surface itself must be flat and level to allow the unit to be flush with the wall. If the wall is uneven, the unit cannot be properly installed.

- Ensure the bracket is flush with the wall and does not flex or shift.
- Double-check that the bracket is 100% level. Use a digital level if available. If using a spirit level, the bubble must be centered.

5. Seal the bracket.

- Apply a continuous bead of silicone sealant around the outer edge of the bracket where it meets the wall.
- Apply an additional bead of silicone along the inner edge where the bracket meets the wall.
- At the bottom of the bracket, where it meets the wall, apply sealant to form a small lip that acts as a dam. This will prevent any water accumulation from entering the wall cavity or the vent sleeve.

 **WARNING**

The AIO® Wall Mounted unit must be installed perfectly level and with an incline of ¼" (3.2 mm) to the right. If the unit is not level, it may leak during operation. INNOVA will not certify any installation that is less than 89% level. Uncertified installations will void the warranty.

6.4 Attaching exterior louvers

This section explains which louvers are approved for use with the AIO® Wall Mounted Unit, what to consider when choosing a louver, and how to properly install the exterior louvers.

Approved Louvers

While many venting systems, including those using louvers or grilles, can be designed to work with the AIO® Wall Mounted Unit, only certain models have been tested and approved to ensure compatibility and performance.

The following louvers are approved for use with the AIO® Wall Mounted Unit:

- Sunvent
 - LLA/F 8W
 - LLA/C 8W
 - LLA/S 8W
- Thermaduct
 - RLA8



Using any louver requirements in or unit failure, and

Louver Selection

When selecting a louver for use with the AIO® Wall Mounted Unit, two critical factors must be considered: ensure proper system airflow and **free area**.

• Pressure Drop

Pressure drop is the resistance to airflow created by a louver. It reduces airflow through the condenser coils and compressor suction.

The total pressure drop across the louver intake and exhaust must be less than 62.3 Pa.

If a louver exceeds this pressure drop, the louver and its restriction are not within spec.



The supply air must have enough free area to have the same velocity as the return air, not exceed

• Free Area

Free area is the total area that allows air to pass between slats. Each louver unit must provide a minimum of 10% free area.

If using a motorized louver, compensate for the louver and pleat area.

Always refer to the louver manufacturer's specifications.

Installing the Exterior Louver

To install the exterior louver:

1. Ensure that the louver is in the correct location where it will be installed.

- Maintain a minimum of 12" (305 mm) space in front of the louver.
- Ensure the louver is level (within 1/8" (3.2 mm) between the louver and the external edge of the louver hood, based on the local mechanical code requirements for a greater or lesser restriction).

2. Install the louver

Follow the louver manufacturer's installation instructions.

3. Seal the louver installation.

- Seal around the exterior components to prevent water penetration and damage.
- Seal the louver sleeve tightly to the wallboard inside the room. Failure to adequately seal around the louver sleeves may result in the unit's fan pulling insulation into the unit and damaging the unit.

⚠ CAUTION

Ensure that the vents and flashing are installed according to the manufacturer's specifications and are properly sealed to avoid any water damage.

6.5 Preparing a condensate drain

⚠ CAUTION

- For installations in regions subject to **freezing winter conditions**, drain line piping must strictly adhere to the following pitch (slope) requirements to prevent ice blockages, water backup, and potential property damage:
 - **Direct Outdoor Drainage:** Any drain line routing directly to the outside environment **MUST maintain a minimum 30% pitch (approximately 3.6 in. per 12 in. / 300 mm per 1 meter)**. This steep slope ensures rapid, complete water evacuation before freezing can occur within the pipe.
 - **Internal Riser Drainage:** Drain lines routed into an internal building riser **MUST maintain a standard minimum pitch of 2% (approximately ¼ in. per 12 in. / 20 mm per 1 meter)**.
- Do not allow sags, traps, kinks, or low points where water can collect and freeze.
- The installer must verify proper condensate drainage during commissioning before operating the unit.
- Failure to follow these pitching guidelines in freezing environments will void the warranty for water damage caused by frozen or blocked drain lines.

This section provides information about condensate drain options and how to prepare a condensate drain for the AIO® Wall Mounted unit.

Condensate Drain Options

The AIO® Wall Mounted unit features an integrated condensate management system. This system includes a pump and a nebulizer nozzle that disperses condensate onto the heat exchanger coil while cooling. The heat from the coil evaporates the moisture, eliminating the need for a traditional drain under these conditions.

However, in heating mode—or during cooling in low ambient temperatures (below 64.5°F [18.1°C])—this evaporative system does not function effectively. In these scenarios, a dedicated condensate drain is required.

The unit includes a rubber drain hose at the bottom. This hose must connect to an appropriate drainage system, which can be one of the following:

- **In-the-wall drain (Recommended)**
In this setup, the rubber hose connects to a drainpipe hidden inside the wall. The drainpipe carries the condensate to the building's wastewater system (sewer).



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Preparing an In-the-Wall Drain To prepare an in-the-wall drain:

1. **Install a drain**
 - This must be done by a qualified plumber.
 - The drain pipe must be the same diameter as the unit's drain pipe.
 - The drain pipe must be properly fitted.
 - The open end of the pipe must be sealed with the end cap (see Figure 6-1 D) on the unit's manual.
 - If the drain pipe is not properly installed, it can cause water damage.

drainpipe in insulation and heat tape.

WARNING

Only use self-regulating heat tape or heat tape designed for use under insulation. Use of any other type of heat tape may result in a fire and void your warranty.

2. Test the drain.

- Pour water into the drainpipe.
- Check for leaks.

Preparing an External Drain

To prepare an external drain:

1. Drill a drain hole.

- a. Bore a drain hole through the exterior wall. The drain hole must have an outward slope of at least 2% ($\frac{1}{4}$ " [6.4 mm] per foot).
- b. Ensure that the drain hole and assembly allow for a downward slope of at least 2% from the condensate drain under the AIO® Wall Mounted unit.

2. Insert the rubber drain hose through the drain hole.

3. Test the drain.

- a. Pour water into the drainpipe.
- b. Check for leaks.

6.6 Preparing the electrical connection

The AIO® Wall Mounted unit can be connected to a mains power supply in one of two ways:

- Using the Leakage Current Detection Interrupter (LCDI) power cord.
- Hardwiring the unit directly to the mains power supply.

This section provides information on both methods.



Only a licensed electrician should install or replace electrical connections.



To prevent electrical shock, follow these instructions:

- A dedicated circuit is required for all connections.
- For hardwired connections, use a disconnect switch.
 - Use a disconnect switch rated for the unit's load.
 - Use a switch with a locking mechanism.
- **Failure to follow these instructions may result in serious injury or death.**



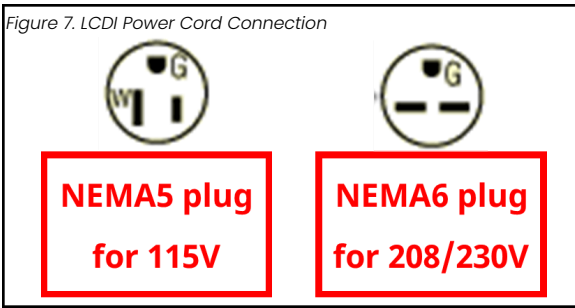
- To avoid damage to the unit, use a power surge protector or a dedicated building-wide surge protector.
- **Failure to use a surge protector may void the equipment warranty.**
- Do not connect the unit to a Circuit Interrupter (CIR) or other device that may interfere with operation.

LCDI Power Cord Connection

You can purchase a dedicated LCDI power cord for the AIO® Wall Mounted unit. The unit can be connected to the mains power supply by plugging the cord into a grounded electrical outlet.

The outlet must be grounded and be within 6 feet of the unit.

Figure 7. LCDI Power Cord Connection



**WARNING**

- Do not alter the LCDI power cord or plug.
- Do not use an extension cord to connect the LCDI power cord to an outlet.

Pre-Connection Checklist

- Before connecting the LCDI power cord to the power outlet, check that:
- ☐ The power supply voltage and frequency comply with the data plate on the AIO® Wall Mounted unit.
 - ☐ The power outlet is a grounded connection and is rated for the maximum wattage indicated on the data plate of the AIO® Wall Mounted unit.
 - ☐ Power is supplied only via a power outlet suitable for the supplied plug on the LCDI cord.
 - ☐ The power supply has suitable protection against overloads and/or short circuits. It is recommended that you use a correctly-sized time-delay fuse or other equivalent device.

**WARNING**

- The power supply cable (LCDI cord) may only be replaced by a licensed HVAC contractor, in compliance with current national and local regulations.
- **Improper wiring may result in death, serious injury, and/or property damage.**

Hardwired connection

The AIO® Wall Mounted unit can be hardwired directly to a correctly sized, dedicated circuit breaker. You can hardwire the AIO® Wall Mounted unit using a quick-disconnect whip cord, available from INNOVA.

All connections must be made in accordance with the National Electrical Code and any local authorities with jurisdiction. Only qualified electricians may perform this installation.

To prepare a hardwired connection:

1. **Mount a junction box behind the unit at the location marked (B) on the template.**
 - A junction box provides a protected enclosure for electrical connections and is required by some electrical codes.
 - Follow all applicable codes regarding flush, surface, or recessed mounting of boxes.
2. **Wire the junction box.**
 - Ensure that the power to the breaker is off.
 - Route the electrical wire from the breaker box to the junction box. Make sure that the wire is rated for the load.
 - Connect the wire to the junction box.

To make a hardwired connection:

1. Disconnect power at the main fuse or breaker panel.
2. Remove the inlet grille.
3. Remove the two upper screws securing the decorative side panel. Lift the panel slightly and remove it.
4. Remove the two upper screws securing the electrical cover, and remove the cover.
5. Disconnect the existing power cord by loosening the three screws from the terminal block.
6. Connect the new power cable, including the ground wire.



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6.7 Mounting Bracket

After checking that the unit, is 100% to the wall, is 100% electrical connect preparations are c on the bracket.

To mount the AIO® bracket:

1. **Lift the AIO® W prongs on the**
To ease place slightly away



The unit must be

2. Check that th

- It is recor level.
- The unit r

6.8 Fastening the Anti-Lift Brackets

Two Anti-Lift Brackets are provided to secure the AIO® Wall Mounted Pro Unit in place during installation and operation. These brackets must be installed on either side of the rubber drain hose to maintain the correct slope of the unit, ensuring reliable long-term performance.

WARNING

- Ensure that the brackets are fastened as instructed.
- Failure to properly secure the Anti-Lift Brackets may result in the unit detaching from the wall bracket, causing serious injury or property damage.

To fasten the Anti-Lift Bracket to the wall:

1. **Position the Anti-Lift Bracket over the template.**
 - Ensure that the screw hole on the template (marked **E**) is positioned over a wall stud.
2. **Secure the Anti-Lift Bracket to the wall.**
 - Use a screw to attach the Anti-Lift Bracket to the wall.
 - If the wall is hollow, use four ¼" (6.4 mm) load-bearing wall anchors that support at least 50 lbs (22.7 kg) and can be removed cleanly from the wall.

6.9 Checking for air leakage

Many walls are not perfectly straight. This can create a situation where there is a gap between the vent sleeves and the rear of the AIO® Wall Mounted unit.

After mounting the AIO® Wall Mounted unit on the wall bracket and fastening the Anti-Lift Bracket, check that the unit is tightly up against the wall on all sides.

To check for air leakage:

1. **Temporarily mount the AIO® Wall Mounted unit on the bracket.**
2. **Darken the room.**
 - Close the curtains in the room.
 - If there are no curtains, use opaque material to cover the windows.
 - Turn off the lights in the room.
3. **Check the wall for air gaps.**
 - Inspect the area where the AIO® Wall Mounted unit meets the wall.
 - Check all sides to see if there is any light infiltration.
 - If the sleeves are secure against the back of the unit, there should be no light infiltration.
4. **If there are air gaps:**
 - **Lift the unit off the wall bracket. Set aside.**

WARNING

- The unit must be lifted by two people.
- Lift the unit from the sides of the bottom base.
- Be aware that the unit is unbalanced on the right (compressor) side. Support this side securely during lifting.
- Lift with your legs, not your back.
- **Failure to follow these instructions can result in back or other injury.**

- **Build up the area around the vent openings.**
Use closed-cell foam tape of appropriate thickness.
- **Ensure that:**
 - No air can move between the intake and the exhaust.
 - Outside air cannot infiltrate the room.
 - Exhaust air cannot leak back into the room.

6.10 Connect supply

The unit can be connected to the power supply using an LCDI power supply.

Connecting the unit to the power supply
To connect the unit to the power supply:

1. Plug one side of the power connection into the unit.
2. Plug the LCDI power supply into the unit prepared for the power supply.
3. Secure all wiring connections.

Connecting the unit to the power supply

You can purchase the power supply separately.



If you wish to connect the junction box gauge to the amperage

To connect the unit to the power supply:

1. Unscrew the LCDI power supply from the side of the unit.
2. Insert the male power supply into the female connection terminal.
3. Reattach the LCDI power supply to the unit.
4. Connect the power supply to the junction box.
 - For 115V units:
 - i. Connect the power supply to the live wire.
 - ii. Connect the power supply to the ground wire.
 - For 230V units:
 - i. Connect the power supply to the live wire.
 - ii. Connect the power supply to the ground wire.

6.11 Connecting the unit



- For installation in winter conditions, strictly adhere to the requirements for backup, and:
 - **Direct Connection:** routing the power supply to the environment. 30% pit / 30% in. / 30%

slope ensures rapid, complete water evacuation before freezing can occur within the pipe.

- **Internal Riser Drainage:** Drain lines routed into an internal building riser **MUST maintain a standard minimum pitch of 2% (approximately ¼ in. per 12 in. / 20 mm per 1 meter).**
- Do not allow sags, traps, kinks, or low points where water can collect and freeze.
- The installer must verify proper condensate drainage during commissioning before operating the unit.
- Failure to follow these pitching guidelines in freezing environments will void the warranty for water damage caused by frozen or blocked drain lines.

This section provides information about connecting the AIO® Wall Mounted unit to the prepared condensate drain.

Connecting an In-the-Wall Drain

To connect the rubber hose to an in-the-wall drain:

1. Prepare the rubber hose.

Cut the end of the rubber hose as needed, but make sure there is enough left that **at least 4" (101.6 mm)** of the hose can be inserted into the pipe.



The rest of the steps in this procedure can only be done after the unit is mounted on the wall bracket.

2. Connect the rubber hose to the drainpipe.

- Gently push at least 4" (101.6 mm) of the rubber hose into the drainpipe.
- Be careful not to squeeze or crimp the rubber hose.
- Ensure that the rubber hose fits in the drainpipe snugly and will not pop out or otherwise detach from it.

3. Insulate the rubber hose.

- Wrap the part of the rubber hose that is in the room with anti-condensation, insulating material.

Connecting an external drain

To connect the rubber hose to an external drain:

1. Insert the rubber hose into the drain hole.

- Gently push at least 4" (101.6 mm) of the rubber hose into the drain hole.
- Be careful not to squeeze or crimp the rubber hose.
- Ensure that the rubber hose fits in the hole snugly and will not pop out.

2. Seal the connection.

- Seal the area around the rubber hose so that air and water cannot flow from the drain hole

into the room.

- Use best practices based on the application and materials used.

3. Insulate the rubber hose.

- Wrap the part of the rubber hose that is in the room with anti-condensation, insulating material.

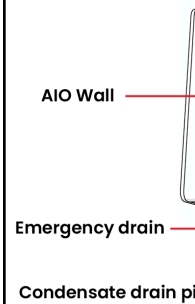
4. Insulate any external piping.

- If you extend the drain with any exterior piping, wrap all the pipes with heat tape and insulation.



Only use self-regulating heat tape designed for use with this type of heat tape. Do not use any other type of heat tape. Failure to do so will void your warranty.

Figure 8.



6.12 Condensate

To reduce the risk of mold and mildew, maintain effective condensate line cleaning (such as line cleaners) and replace line components and clean early microbial growth.

For ongoing maintenance, inspect line components, including boxes, pumps, and valves, every six months. If necessary, perform more frequent cleaning.

Always use coil-spring system components to maintain performance.

To program the louver direction:

1. **Reconnect the AIO® Wall Mounted unit to the power supply.**
2. **Press  on the Onboard Touch Controller to activate the display.**
The unit can be in any mode.
3. **Press  and hold for about 10 seconds.**
The **DN** (low wall installation) icon will flash on the display.
4. **Press  again.**
The **UP** (high wall installation) icon will flash on the display.
Do **not** touch the display. After a few seconds, the display returns to normal.
The louver direction is now programmed for high wall installation.

8.2 Connecting a Dry Contact

The AIO® Wall Mounted unit supports integration with dry contact devices (voltage-free switch inputs used to control the unit's operation). These may include occupancy sensors, open-window switches, on/off remotes, or other compatible control systems. When used, these devices can automatically activate or deactivate the unit as needed.

When the dry contact opens, the unit enters standby mode and displays CP (Contact Present) on the screen.

To minimize electrical interference, use only shielded cable when connecting a dry contact input.



For models with auxiliary electric heat, do not abruptly cut power to the unit, as this may cause internal overheating. Instead, use the CP contact to place the unit in standby mode, which allows the unit to run its cool-down ventilation cycle before shutting down completely.

WARNING

- Turn off all electrical power before making any connections. All electrical connections and wiring **MUST** be installed by a qualified electrician and conform to the National Electrical Code, as well as all local codes with jurisdiction.
- **Improper wiring may result in death, serious injury, and/or property damage.**

To connect a dry contact:

1. **Turn off the power**
 - a. De-energize the Unit: Before accessing the filters, always switch off the power to the unit to prevent accidental activation and ensure safety. Unplug the power cord, or turn off the

breaker and wait at least five minutes, and confirm that all indicator lights are off before continuing.

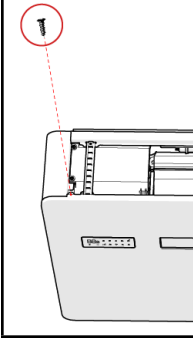
2. Remove the Air Filter.

- a. Lift the grille from the unit and set it aside.
- b. Gently pull up on the plastic around the filter.
Note: Take care not to break the plastic or tear the filter.

3. Remove the Front Cover Panel.

- a. Unscrew the two front screws on the top of the unit (labeled in the following figure).

Figure 11. Unscrew the



- b. Gently pull the plastic element aside.



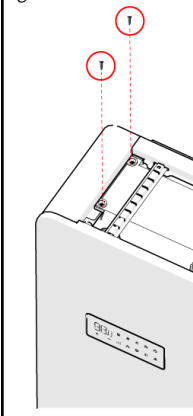
When removing the Front Cover Panel (FCP) from the AIO® Wall Mounted (Gen 2) unit, follow these steps:

- The Onboard Touch Controller (OTC) is located on the back of the unit. The harness connector is located on the back of the OTC.
- Do not pull the harness connector too hard, as it can tear the plastic element.
- Carefully disconnect the harness connector from the OTC.

4. Remove the back cover.

- a. Remove the plastic element from the back of the unit and set it aside.

Figure 12. Remove the



Keep the screws in a safe place.

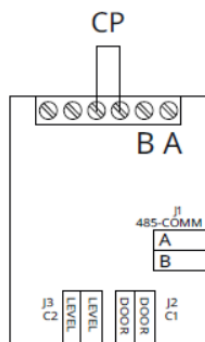
- b. Remove the plastic element from the back of the unit and set it aside.

components of the unit will now be visible.

5. Connect the dry contact to the board.

See the following image for the proper connection points.

Figure 13. Proper connection points



6. Position the black plastic electrical protective cover in place.

- Do not secure the cover with screws until after the unit has been tested.

7. Test that the dry contact works properly.

- Power up the AIO® Wall Mounted unit.
- Activate and deactivate the connected control device (e.g., occupancy sensor) to verify that the unit responds correctly: turning on and entering standby mode as expected.

8. Secure the plastic cover.

- Reattach the black plastic electrical protective cover to the white metal frame of the AIO® Wall Mounted unit using the two screws removed in Step 4a.

9. Finish closing the unit.

- Position the Front Cover Panel on the AIO® Wall Mounted unit.
- Reattach the Front Cover Panel to the AIO® Wall Mounted unit using the two screws removed in Step 3.
- Reinsert the Air Filter into the AIO® Wall Mounted unit.
- Reinsert the grille above the filter.

8.3 Configuring heat strip wattage

The AIO® Wall-Mounted Unit 230V with Heat Strip includes two 900 W heating strips, which can operate together (1800 W) or individually (900 W). Use this procedure to configure the desired wattage during installation or at first startup.

1. Turn off the power.

- Disconnect power to the unit to prevent accidental activation.
- Unplug the unit or switch off the circuit breaker.
- Wait at least 5 minutes and verify that all indicator lights are off before proceeding.

2. Access the Heating settings.

- On the onboard touch controller, select Ht.
- Select NO to disable the heating strips.

3. Set the Heating wattage.

- Select r1 for 900 W operation.
- Select r2 for 1800 W operation.

4. For 900 W Operation Only:

- Disconnect the connector for one heating strip on the PCB (see images below).

Figure 14. Configuring heat strip wattage

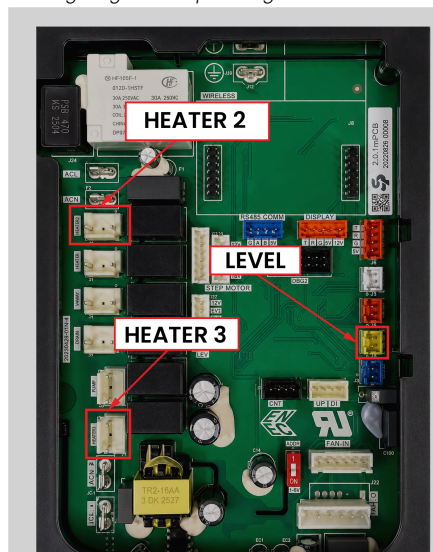
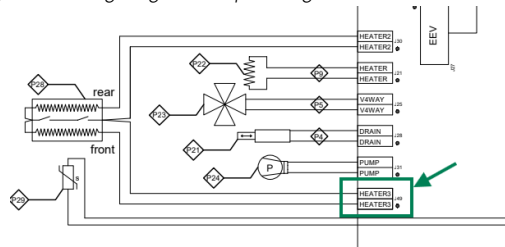


Figure 15. Configuring heat strip wattage



- Cut off the plug from the disconnected wire to prevent reconnection.
- Wrap wire ends with electrical tape or use a wire nut to insulate them.

5. Label the Configuration.

- Mark 900 W or 1800 W on the unit's label for future reference.

Figure 16. Label the configuration

Installer Responsibility	900W	1800W
Power supply (V/Ph/Hz)	230/1/60	230/1/60
Voltage range	180-253	180-253
Running Amps Cooling	3.4	3.4
Max Amps Cooling	7.8	7.8
Running Amps Heating	6.8	10.7

9. SELF-CERTIFICATION INSTALLATION

To ensure the AIO® is installed correctly, we recommend that only self-certified and qualified installers are used.

For more information, see the [Self-Certification Table](#).

For information about the requirements for self-certifying the installation, see the [Self-Certification Table](#).

9.1 Post-Installation Checklist

The following items must be completed for installation:

Appropriate Use

- ☐ The AIO® Wall Mounted unit is not to be used in areas where its capacity is exceeded, such as in areas where it is located in a room with a high ceiling, which it is located in.
- ☐ The interior ventilation system is not to be used in areas where plants, or windows, are located.

Mounting

- ☐ The wall bracket is not to be used in areas where two screws are required to secure the unit, and the other four screws are required to secure the load-bearing wall. The wall bracket is not to be used in areas where the wall is not load-bearing (e.g., 50 lbs (22.7 kg) or less).
- ☐ The unit is not to be used in areas where it is positioned at an angle to the horizontal.
- ☐ The unit is not to be used in areas where it is positioned at an angle to the wall and the ceiling.
- ☐ The Anti-Lift Bracket is not to be used in areas where it is positioned at an angle to the wall and the ceiling.
- ☐ The Anti-Lift Bracket is not to be used in areas where it is positioned at an angle to the wall and the ceiling.
- ☐ The tip sensor is not to be used in areas where it is positioned at an angle to the wall and the ceiling.

External Vents

- ☐ The vent sleeve is not to be used in areas where it is positioned at an angle to the wall and the ceiling.
- ☐ Approved external ventilation is not to be used in areas where it is positioned at an angle to the wall and the ceiling.
- ☐ The exterior grille is not to be used in areas where it is positioned at an angle to the wall and the ceiling.
- ☐ The exterior grille is not to be used in areas where it is positioned at an angle to the wall and the ceiling.
- ☐ The external ventilation is not to be used in areas where it is positioned at an angle to the wall and the ceiling.
- ☐ The exterior ventilation is not to be used in areas where it is positioned at an angle to the wall and the ceiling.

Electrical

- ☐ The power requirement is not to be used in areas where it is positioned at an angle to the wall and the ceiling.

LCDI cord.

- ☐ The circuit breaker is within the required specifications.

Drainage (if using for heating)

- ☐ The condensate drain is connected and working.
- ☐ The external condensate drain is pitched correctly.
- ☐ The external condensate drain's exterior wall drain hole is properly sealed.

10. FINAL STEPS AFTER INSTALLATION

Before leaving the installation site, ensure that the following tasks are completed:

- ☐ **Clean-Up:** Remove all packaging materials and wipe off any dust or debris from the unit using a damp cloth.
- ☐ **User Handoff:** Review the following with the user:
 - Key features and specifications of the unit
 - Basic operating instructions
 - Routine maintenance requirements
- ☐ **Protect the unit**
 - If the unit is installed in an environment with salt, chemical, or acidic air exposure, apply a protective coil coating, such as DiversiTech Coil Guard, to protect the coil surfaces from corrosion and ensure long-term performance.
 - If the unit is installed in a construction environment, protect the unit in tight plastic wrap and do not operate it until all dust and debris in the environment has been removed.

CAUTION

- Failure to properly wrap the unit and disconnect its power in dusty or active construction or renovation environments can result in damage to internal components and void the warranty.

11. WIRING D

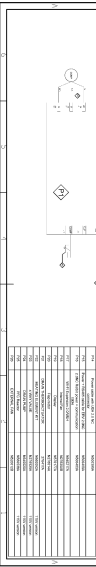
The following are t
Mounted units.

11.1 AIO® Wall Diagram

To view the diagram
link below:

 AIO Wall Mount

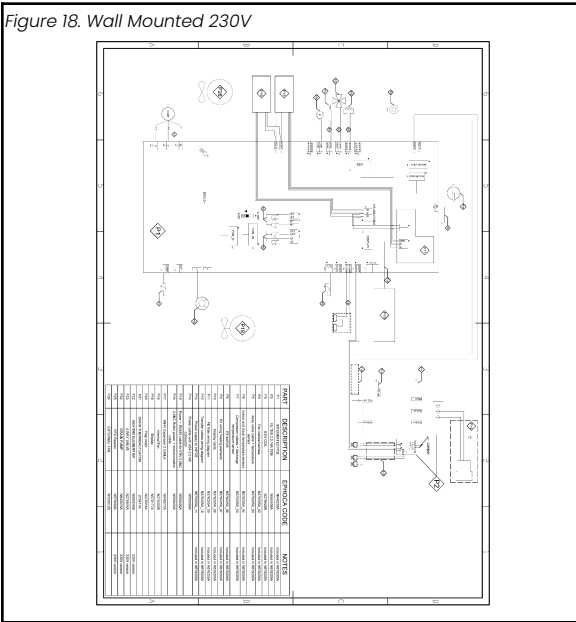
Figure 17. Wall Mounted



11.2 AIO® Wall Mounted 230V Wiring Diagram

To view the diagram as a high-resolution PDF, click the link below:

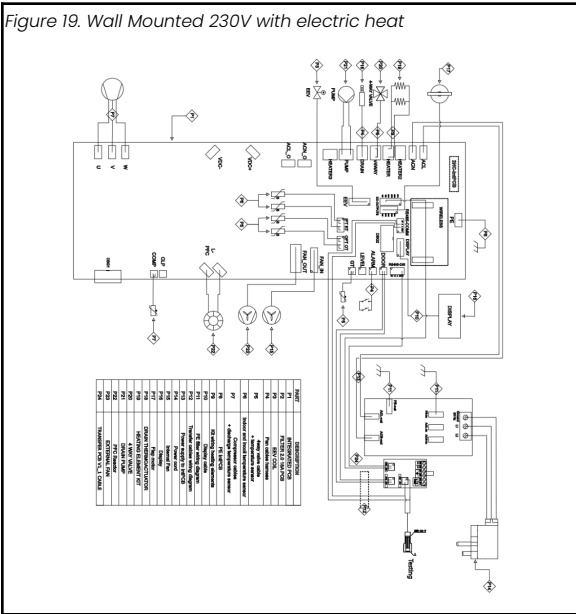
 [AIO Wall Mounted 230V Wiring Diagram.pdf](#)



11.3 AIO® Wall Mounted 230V with Heat Strip Wiring Diagram

To view the diagram as a high-resolution PDF, click the link below:

 [AIO Wall Mounted 230V with electric heat \(V 5.0\)....](#)



12. WARRANTY

12.1 Basic Coverage

- **Parts:** 5 years
- **Compressor:**
- **Labor:** 2 years
- **Units are installed** or self-certified
- **total units is not**
- **Controllers:** C

12.2 Optional

- **Additional 2-Y** Extends the basic 2-year parts.
- **Extended 10-Y** coverage to 10
- **Extended 5-Y** and labor coverage
- **Extended 10-Y** 10-year full warranty compressor.
- **Extended 15-Y** 15-year full warranty compressor.

12.3 Validation

- Installation must be performed by a qualified technician or
- Installers must
- The system must be installed in an approved location (e.g., clean filter)

For warranty service, contact your local distributor or support at vip@inr.com. For detailed terms and conditions, see the AIO Warranty T

 AIO Warranty T



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

innova.co | **USA:** 216-710-1000 **Canada:** 416-739-1000



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Revised August 19, 2026

AIO® Wall Mounted (Gen 2) **Installation Guide**