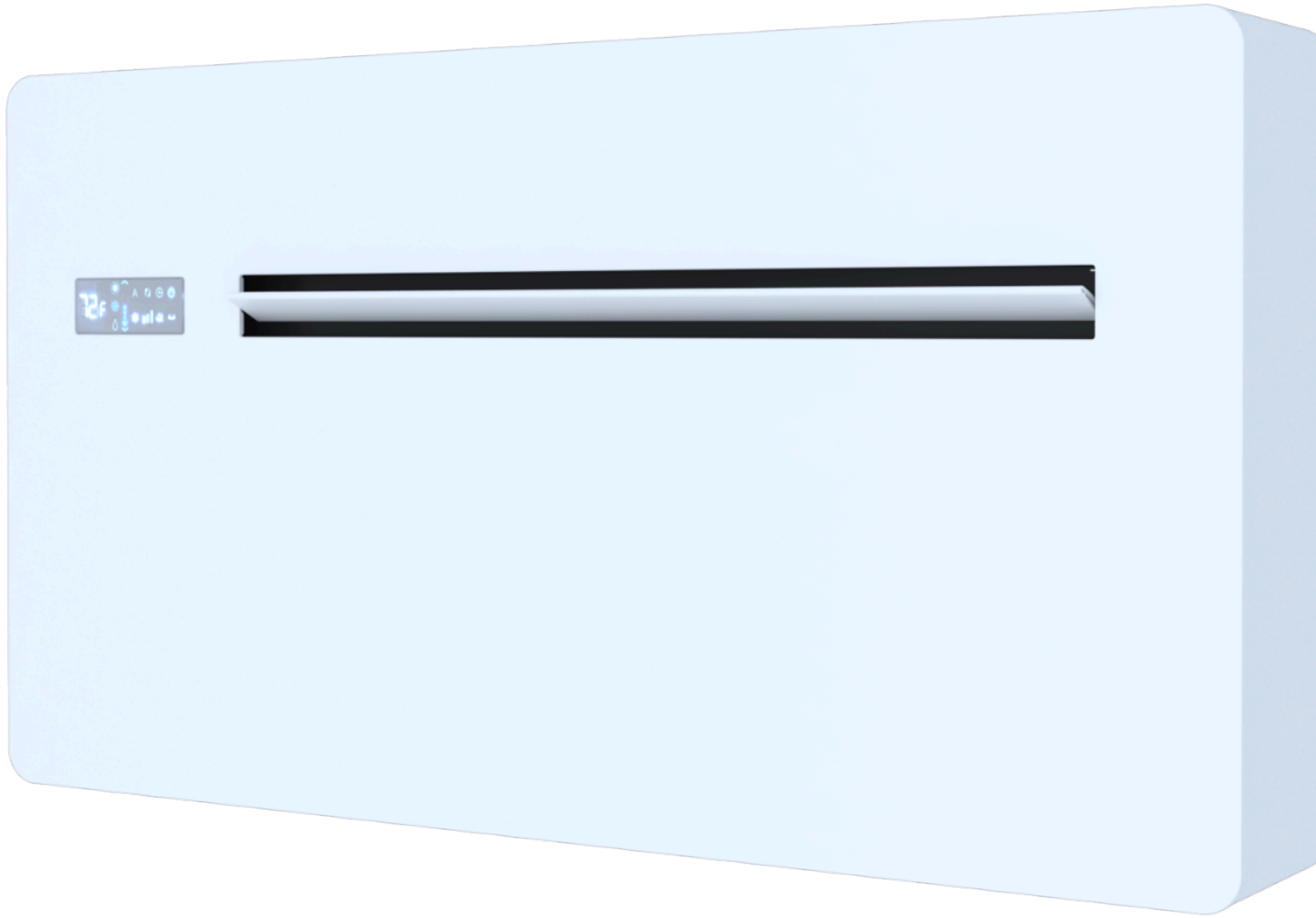
Installation Manual

Wall Mounted Pro (Gen 1)



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1 CONTENTS

2 ABOUT THIS MANUAL

- This manual is provided with the **AIO Wall Mounted Pro Unit** and is the property of the customer. It must remain with the unit and be left in the customer's possession after installation.
- This manual outlines the required procedures for **safely installing** the unit. Following these instructions helps reduce the risk of equipment damage, improper installation, and potential safety hazards.

Important: Read this entire installation manual and the accompanying user manual before beginning any installation tasks. Pay close attention to all safety warnings and notices.

2.1 Safety Notices

Warnings, Cautions, and Attentions are included throughout this manual. **It is important to read each carefully and follow their stated instructions.**

⚠ WARNING

Used to advise of a situation or potential situation which, if not avoided, may result in death or serious injury.

⚠ CAUTION

Used to advise of a situation or potential situation which, if not avoided, may result in minor to moderate injuries and/or property damage.

✋ ATTENTION

Used to advise of a situation or potential situation which, if not avoided, may result in less-than-optimum performance of the unit.

2.2 General Safety Guidelines

⚠ WARNING

Only a qualified HVAC professional may install this unit. The installer must be licensed, insured, or bonded, as required by local regulations.

Note: Installation by anyone other than a qualified HVAC professional voids the warranty on the unit.

⚠ WARNING

Read this entire manual carefully before installing the unit.

Failure to follow the instructions and guidelines in this manual can result in death, serious injury, and/or property damage during and/or after installation.

⚠ WARNING: Suffocation and Injury Hazard

The AIO Wall Mounted Pro unit is packed with plastic materials that pose a suffocation risk to small children and infants. In addition, some packing materials may have sharp edges or parts that can cause injury.

It is the installer's responsibility to remove all packing materials from the installation site and dispose of them properly, in accordance with all relevant regulations.

Failure to remove and properly dispose of the packing materials can result in injury or death.

⚠ WARNING: Excessive Weight

- Always use two people to lift and install the unit.
- The unit is heavier on the right side (compressor side) and may be unbalanced when lifted.

Failure to use proper lifting techniques can result in back injury or other physical harm.

⚠ WARNING: Electrocution Hazard

- Disconnect all electrical power before making any electrical connections. This includes turning off breakers or switches located remotely, such as at the fuse box.
- Ensure that all capacitors are discharged before beginning the installation.
- Follow all OSHA-compliant lockout/tagout (LOTO) procedures.
- All electrical wiring and connections must be completed by a qualified electrician and must comply with the National Electrical Code (NEC) and any applicable local codes.
- Do not open access panels until the power has been fully disconnected.
- Do not tamper with or modify the unit, because this could create unsafe operating conditions.

Failure to follow these warnings may result in death, serious injury, or property damage.

⚠ WARNING: Residual Electrical Charge

The unit contains capacitors that may retain an electrical charge after the power is disconnected. To avoid electrical shock or serious injury:

- Wait at least 5 minutes after disconnecting power.
- Confirm that all indicator lights are off.
- Do not begin any servicing or disassembly until both conditions above are met.

⚠ WARNING: Explosion Hazard

The AIO Wall Mounted Pro unit contains a pressurized refrigeration system:

- Do not puncture, heat, or incinerate the unit.
- The system contains refrigerant and refrigerant oil under high pressure. Before performing any service on the refrigeration system, the refrigerant must be safely recovered to relieve system pressure.
- The type of refrigerant used in this unit is listed on the unit's nameplate.
- Use only manufacturer-approved refrigerants and additives. Use of non-approved substances may damage the unit and void the warranty.
- If refrigerant gas leaks during installation, ventilate the area immediately. Refrigerants can produce toxic gases if exposed to fire or high heat.

  Failure to follow these warnings may result in death, serious injury, or property damage.

⚠ WARNING: Fire Hazard

- Do not use an extension cord to power the unit.
- Use only Ephoca-approved louvers. Installing any unapproved grille assembly may:
  - Cause the unit to overheat.
  - Lead to water damage and/or reduced performance.
  - Void the product warranty.

⚠ CAUTION

Install the unit in a location that is protected from accidental impact, which can cause mechanical damage.

✋ ATTENTION

The unit is designed for indoor installation only. Only the exterior intake and exhaust grilles are rated for outdoor exposure.

✋ ATTENTION

- The unit must be certified either by an Ephoca technician or through the approved self-certification process before use.
- If the unit is used without certification, the warranty will not be activated.
- If the unit operates for more than 30 days without certification, the warranty will be permanently void.
- It is the installer's responsibility to ensure that certification is completed.

⚠WARNING

2.3 R-32 Refrigerant Safety Warnings

This unit uses R-32 refrigerant, which is classified as A2L—low toxicity and mildly flammable. The following precautions must be followed:

- Do not release R-32 into the atmosphere. It has a Global Warming Potential (GWP) of 675.
- Install the unit in a well-ventilated area to prevent refrigerant buildup.
- Take reasonable precautions to ensure that the unit is not exposed to high levels of heat.
- The use of leak detectors with halogen lamps is not allowed near R-32 systems.
- Make sure the room size is suitable for the refrigerant charge. The refrigerant concentration must remain below the Refrigerant Concentration Limit (RCL) in case of a leak. For more information, refer to the regulations of the relevant jurisdiction.
- Use only mechanical connectors that comply with ISO 14903. Replace sealing components and, if connectors are reused, re-fabricate flared joints.
- If required, install a leak detection system that can identify refrigerant leaks and trigger ventilation or other safety responses.
- To avoid frostbite or injury, always wear gloves and safety goggles when handling R-32.
- Store R-32 cylinders in a cool, ventilated space, away from heat sources, direct sunlight, or anything that could cause ignition.
- Secure R-32 cylinders to prevent tipping or damage.

2.4 Installer Responsibilities

- As a professional installer, you are expected to have a deeper understanding of the product than the customer. Proper installation is critical, and we cannot overemphasize its importance.
- You are responsible for installing the unit safely and in compliance with all applicable local and national codes. Be aware that installation tasks present greater risks than the unit's normal operation.
- Your role includes not only safe installation but also ensuring the customer understands how to use the system safely.

The safety precautions in this manual are intended to supplement recognized best practices. In the event of a conflict, the more stringent safety measure should always take precedence.

2.5 Orientation Reference

All directions in this manual (left, right, top, or bottom) are given from the perspective of an installer facing the unit as it is mounted on the wall.

3 PREPARATION

The following contains information about preparing for the unit installation.

3.1 Shipping Configuration

- The unit and mounting bracket are shipped in a single carton. Other accessories are shipped separately.
- The unit is shipped configured for a Low Wall installation. If the unit will be installed as a high wall installation, refer to Configuring the Unit for a High Wall Application.

3.2 Packaging Dimensions and Weight

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

3.3 Unpacking the Unit

⚠ CAUTION: Keep The Unit Upright

- **The unit must remain upright at all times.**
- Tipping the unit — whether on its side, back, or at an angle — can damage the compressor welds and cause refrigerant leaks.
- The package must be transported upright. If it was not, notify your Ephoca representative or contractor immediately.

Do not place the unit in any position other than upright under any circumstances.

To unpack the unit:

1. **Inspect the packaging.**
   - Upon delivery, check all cartons for visible damage.
   - If there is damage, take clear photographs of the damage before opening the carton.
   - If the unit was delivered on its side, note this on the delivery receipt and notify your Ephoca representative or contractor.

   Note: If the unit was delivered on its side, wait at least 72 hours before operating to allow the refrigerant to settle.

2. **Remove the unit from the carton.**
   - Carefully remove the unit from the carton while keeping it upright.

     ⚠ **WARNING: Excessive Weight**
     - Always use two people to lift and install the unit.
     - The unit is heavier on the right side (compressor side) and may be unbalanced when lifted.

       Failure to use proper lifting techniques can result in back injury or other physical harm.
   - Check the interior of the carton for signs of refrigerant leakage using an electronic leak detector compatible with R-32.
   - If refrigerant leakage is detected inside the carton:
     - Do **NOT** install the unit.
     - Report the issue immediately to your Ephoca representative or distributor.

3. **Perform basic functional testing (if necessary).**

If the carton was damaged but the unit appears physically intact, after unpacking, test the unit in both heating and cooling modes. Report any irregularities or operational issues immediately to your Ephoca 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 Ephoca representative or distributor immediately.

3.4 Inspecting the Unit

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

1. Access the unit's nameplate, 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 Ephoca representative or distributor.

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

3.5 Pre-Installation Checklist

1. Make sure you have approved louvers for the external venting. Use of any grille/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 page 16 for louver specifications.
2. Make sure you have downloaded and printed the correct template for the louver you are using. Some louver assemblies will require holes drilled in slightly different places to accommodate the design. You can access templates by visiting ephoca.com/templates. If you are not 100% sure you have the correct template, please discuss it with your distributor or Ephoca.
3. Ensure the selected location has ample clearances.
4. Ensure that there are sufficient studs in the wall or that the wall is constructed of load-bearing components that can properly support the AIO Wall Mounted Pro unit. At least two (2) of the screws on the bracket must be affixed to studs. This can be checked by placing the template on the wall and checking if there are studs where the bracket will be placed.
5. Check to see that the drain is either already in the wall, aligned with the drain marking on the template, or that the drain hole can be drilled through the wall in the correct location.
6. Ensure there is a grounded power outlet with the correct rating and a maximum of 24" from the unit, or there is preparation for hardwiring in the wall that is aligned with the opening for electrical connections on the template.
7. On the exterior of the building, there are no obstacles that can block the airflow from the louver. There must be a least 36" of free and clear space in front of the louvers.
8. There are no curtains or furniture that will block the return or supply air grilles on the AIO Wall Mounted Pro unit.

⚠ CAUTION: Suffocation Hazard

Do not use an extension cord to power the unit.
Use only the louvers that are approved by Ephoca. Using any grille assembly other than approved grilles may cause the unit to overheat, result in potential water damage and/or performance issues, and will void the warranty.

Failure to follow this warning can result in death, serious injury, and/or property damage.

3.6 Clearances

The AIO Wall Mounted Pro unit's clearance will depend on how it is mounted. Please carefully read the criteria below to determine the correct clearance required.

- **Top - low wall mounted**

There must be 3.5" minimum clearance to any surface above, such as a shelf, etc. This is needed for the return airflow. 8" of clearance is recommended for ease in changing the filter and servicing the unit.

- **Top - high wall mounted**

There must be 3.5" minimum clearance from the ceiling. This is needed for the return airflow. 8" of clearance is recommended for ease in changing the filter and servicing the unit.

- **Bottom**

There must be a minimum of 1" from the floor to eliminate any noise from vibration. 2" of clearance is ideal to allow the floor under the unit to be cleaned.

- **Sides**

The AIO Wall Mounted Pro unit should not touch the wall on either side as it will vibrate slightly during operation, which may create noise. As little as 1" clearance will suffice to eliminate any noise from vibration. A clearance of 2.5" on the sides allows for easier access when removing and installing the unit.

- **Front**

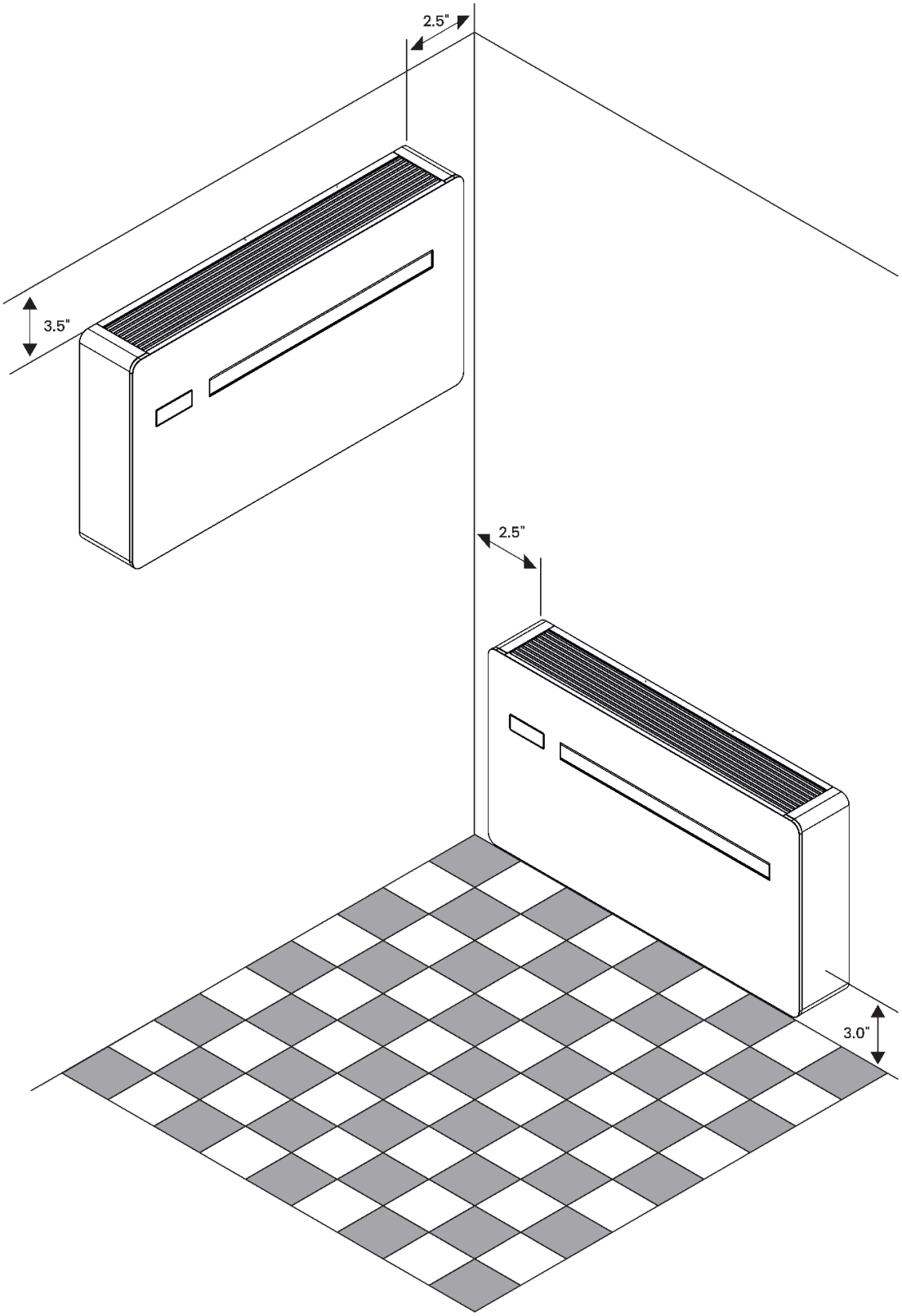
Ensure no curtains, furniture, plants, or any material is within 30" in front of the unit. The supply air vent is on the front, and blocking it will inhibit the airflow and the unit from working correctly.

- **Rear**

The rear of the unit must be tight to the wall so there are zero gaps between the wall and the unit. Gaps can allow outside air inside and create short cycling and humidity. If there are any gaps, they must be sealed with insulation.

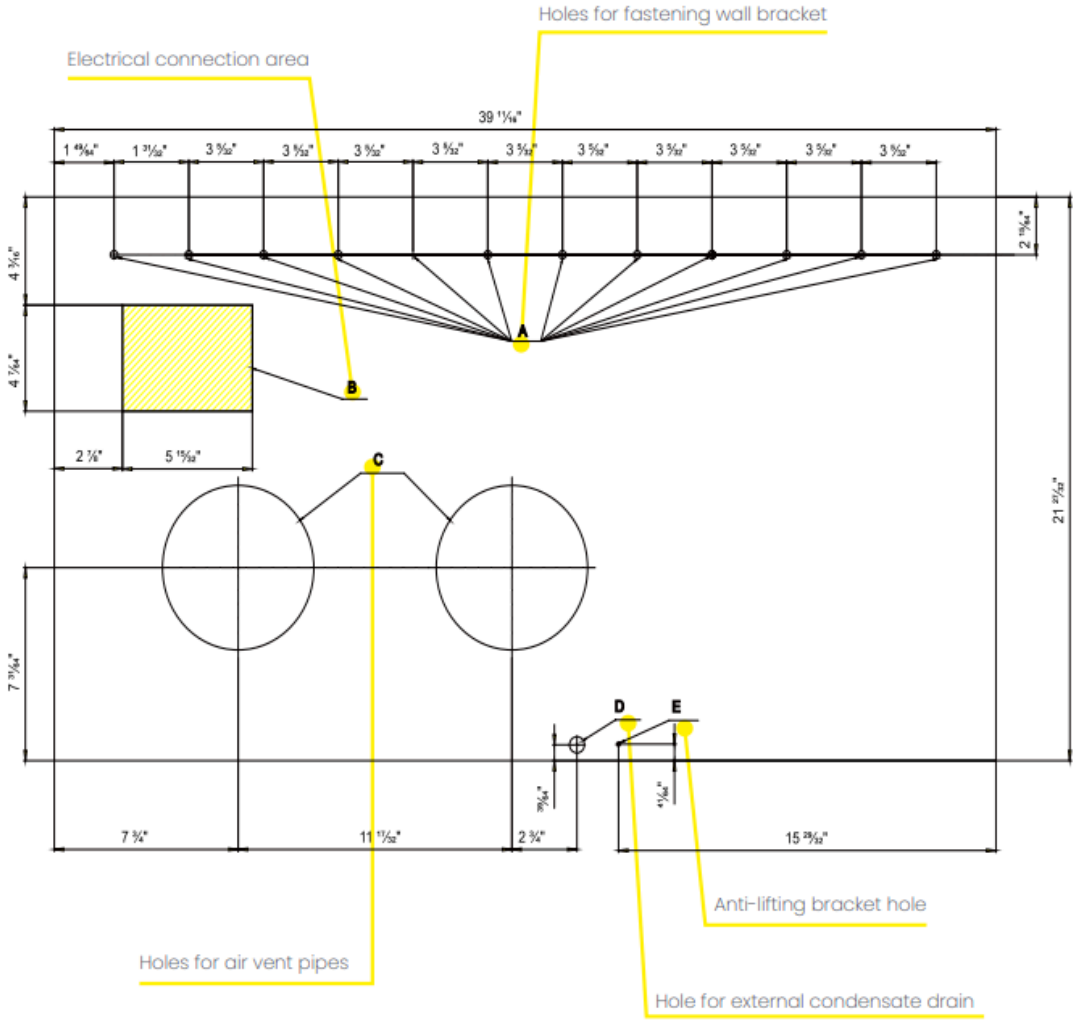
- **Exterior**

On the exterior of the building, there should be no obstacles blocking the airflow from the louver. There must be at least 36" of free and clear space in front of the louvers.


2.5"
3.5"
2.5"
3.0"

4 INSTALLATION | MOUNTING TEMPLATE

1. Water leakage can result when the unit is operated in humid conditions.

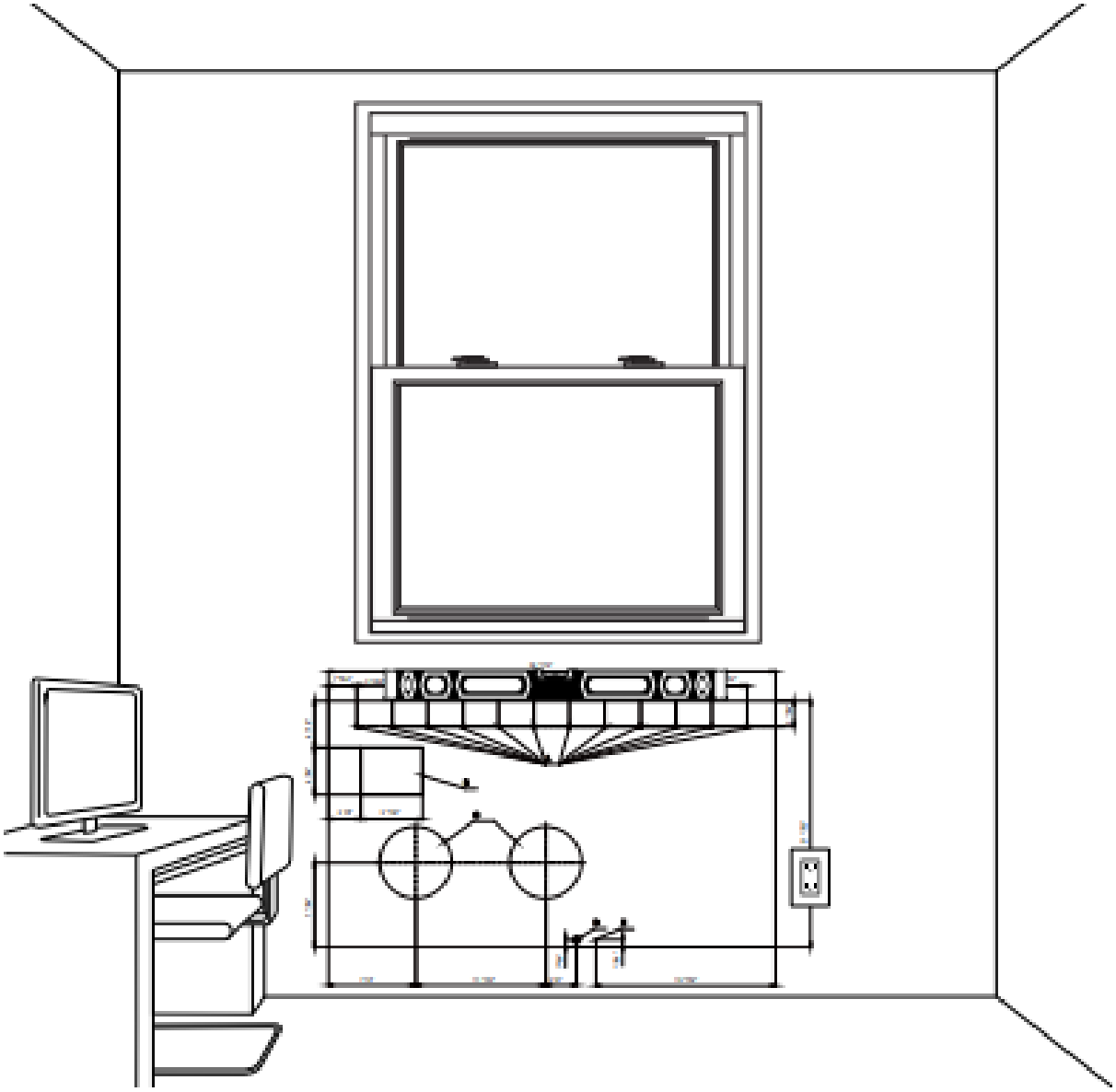


4.1 Affixing the Template

1. Affix the template to the wall using masking tape. Be sure it is in the exact location where the AIO Wall Mounted Pro unit is to be installed.

   Make sure you have downloaded and printed the correct template for the louver you are using. Some louver assemblies will require holes drilled in slightly different places to accommodate the design. You can access templates by visiting ephoca.com/templates. If you are not 100% sure you have the correct template, please discuss it with your distributor or Ephoca.

2. Make sure the template is nearly level, with a ⅛" slope to the right. Use a digital level, if possible. If using a bubble level, make sure the bubble is just slightly off-center to the left. If the unit is not slightly tilted, the drain pan may not drain properly.



5 INSTALLATION | WALL BRACKET

5.1 Affixing the Wall Bracket

1. Place the bracket on the template in the designated location.
2. Align the holes of the bracket with the holes marked on the template.
3. Screw one side of the bracket into a stud.
4. Place a level on the bracket to ensure the bracket is nearly level before affixing the screw on the other side to a stud.
5. Use at least four (4) additional screws to ensure the bracket is tight to the wall. It is critical that the two outermost holes be fastened to the wall so that the bracket does not have give or play. At least two (2) of the holes on the bracket must be screwed into studs. The other four (4) holes may be fastened to the drywall using ¼" load-bearing wall anchors that support at least 50 lbs and can be removed cleanly from the wall. Do not use any other fastener.
6. When done, verify that the bracket is nearly level with a ⅛" slope to the right.

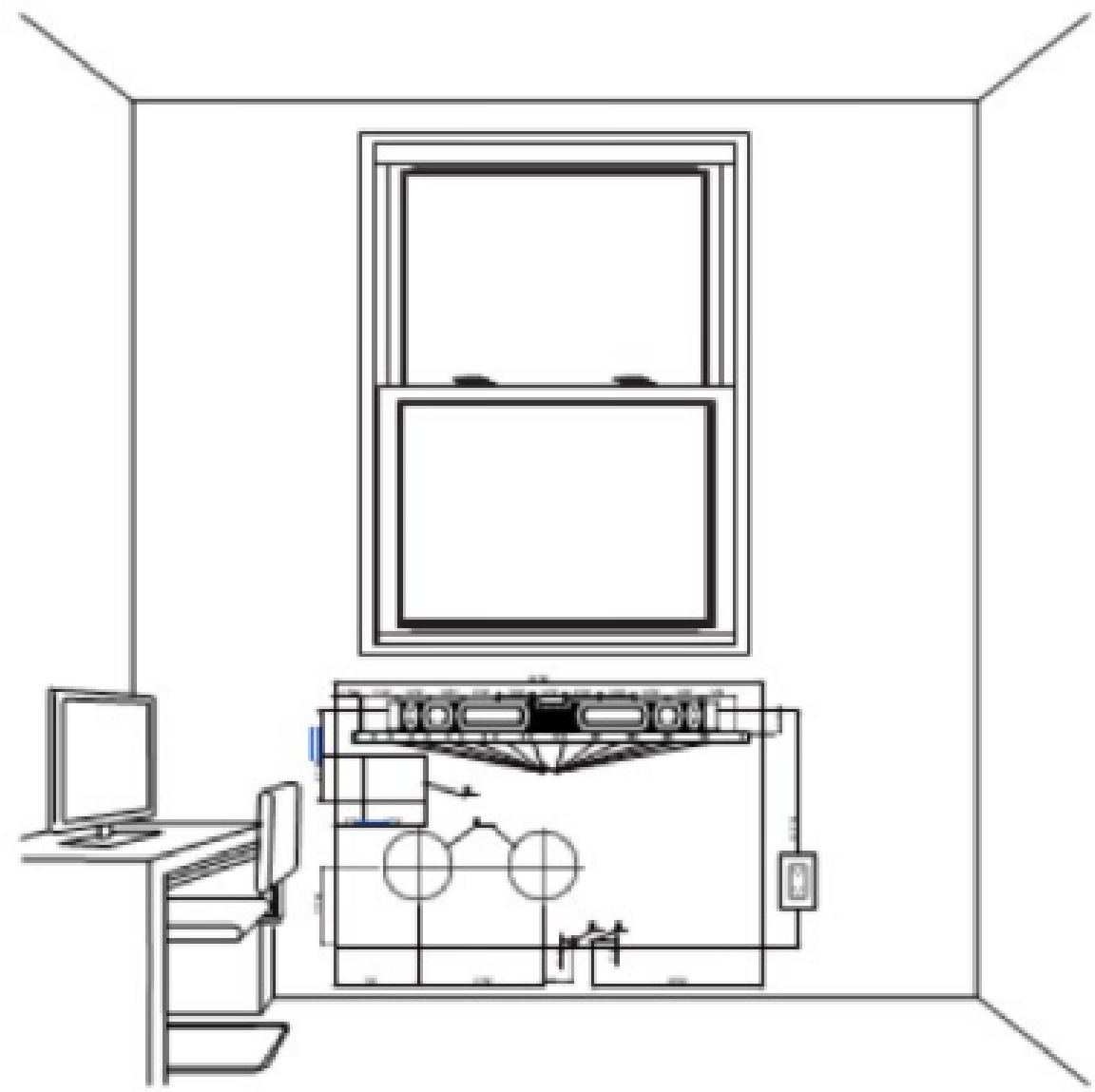
⚠ WARNING: Water Damage Hazard

The AIO Wall Mounted Pro unit must be level on the vertical axis and have a ⅛" slope on the horizontal axis. If the unit is not level, there is a high likelihood that the unit will leak. Use a digital level if possible. Ephoca will not certify any unit that is not at least 89% level. This will cause the warranty to be void.

⚠ WARNING: Falling Object Hazard

The AIO Wall Mounted Pro unit must be securely mounted by following all these instructions.

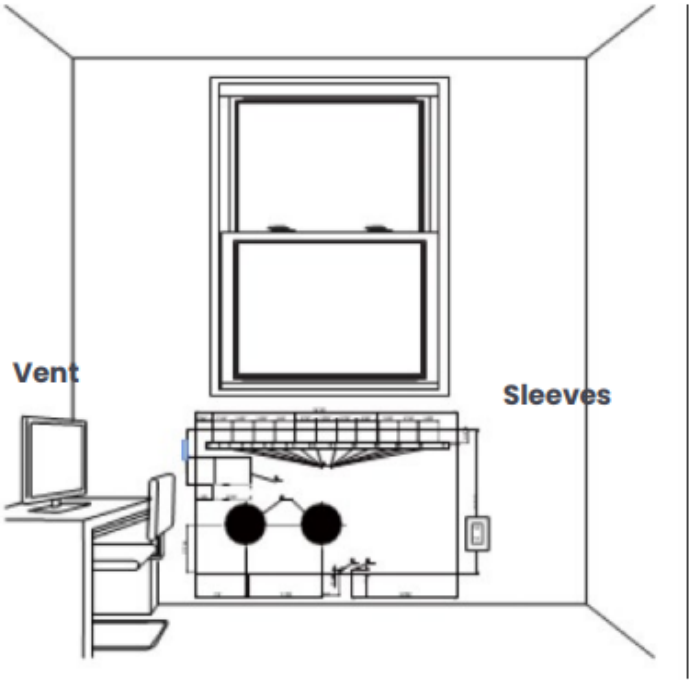
Failure to mount the unit securely can result in death, serious injury, and/or property damage.



6 INSTALLATION | VENT HOLES

6.1 Making the Vent Holes

1. After ensuring there are no live electrical wires in the wall behind the boring locations, as well as no load-bearing members or exterior features that will be disturbed, make the bore holes with equipment appropriate to the media to be bored according to the locations on the template.
2. The holes must be 8" in or larger in diameter, according to the type of vent assembly used. It is essential to note that the fan protrudes 3" beyond the rear dimension of the unit, and the diameter is 8.7". Additionally, there must be some clearance around the fan frame to inhibit vibrations. Please plan accordingly. There are louvers systems available from Sunvent and Thermaduct to accommodate this fan specifically.
3. It is important that the holes be slightly sloped downward towards the outside.



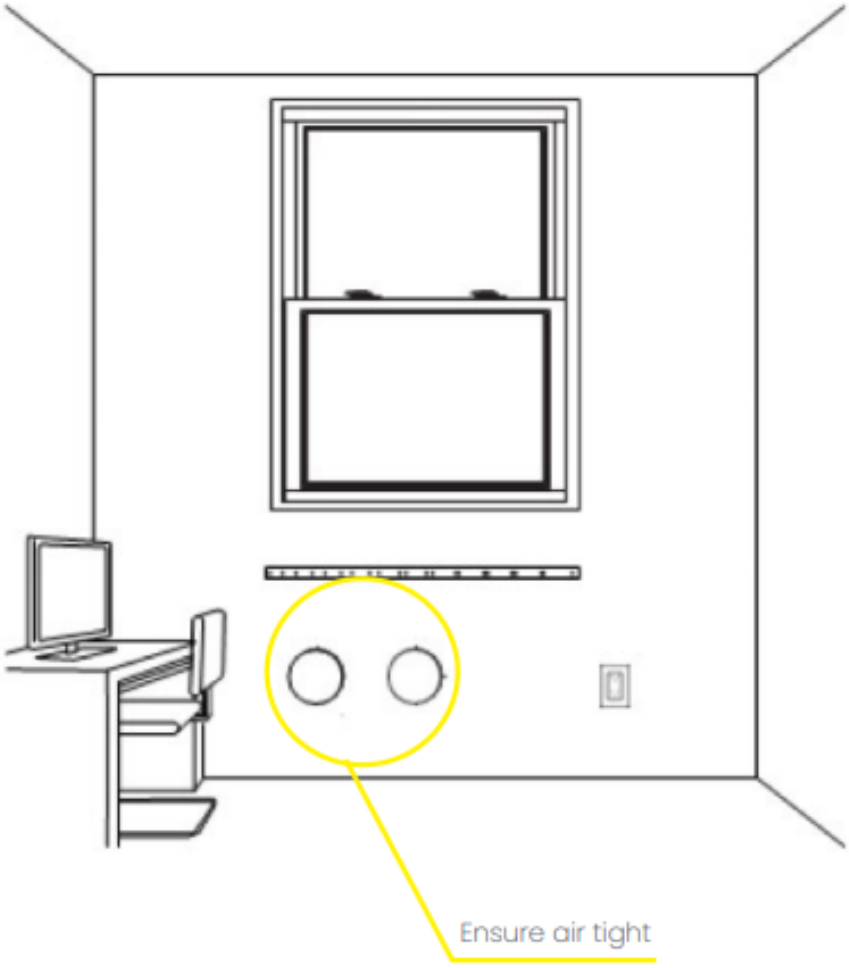
⚠ WARNING: Electrical Shock Hazard

Before boring vent holes, check to be sure that no electrical wiring is in the path of the bore hole.

Boring into live electrical wiring may result in death, serious injury, and/or property damage.

6.2 Installing the Vent Sleeves

1. Insert the sleeves into the bored holes per the sleeve manufacturer's instructions.
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. Be sure to caulk the space around the sleeve between the sleeve and adjoining wall so that all air gaps are eliminated.



⚠ CAUTION: Potential Unit Damage

Failure to adequately caulk and seal around the vent sleeves may result in the unit's fan pulling insulation into the unit and damaging the unit.

7 INSTALLATION | EXTERIOR LOUVERS

7.1 Louvers Requirements

Many louver/grille/venting solutions can be designed to work with the AIO unit and meet the performance requirements. The following louvers are tested and approved for the Wall Mounted unit:

- Sunvent: LLA/F, LLA/C and LLA/M
- Thermaduct: RLA9

When selecting a louver, there are two critical factors in selecting and sizing a solution that will work with the AIO series heat pumps:

- **Pressure drop**

Pressure drop is the resistance the louver/grille creates against the airflow. This resistance can create heat build-up inside the condenser portion, causing the compressor to overheat and shut down. A solution with a higher pressure drop than specified can be utilized by enlarging the louver and plenum until the pressure drop is within specification. The total pressure drop is for the return and supply combined. The return and supply do not need to be the same, as long as the combination does not exceed the total.

Each louver must have low airflow resistance with minimal pressure drop that does not exceed .45" WC.

- **Free area**

This area on a louver/grille is open for the air to flow through. The louver, perforated panel, or other solution must have at least the amount of free area as required in the specifications below, in the plenum from the unit, so that ample air can enter and exit the condenser chamber. A more restrictive solution with a smaller free area can be utilized by enlarging the louver and plenum until the required free area is achieved.

Each louver must have .34 sq. ft. of free area.

7.2 Louver Installation Requirements

1. There must be no obstacles in front of the louvers that can block air flow. Maintain at least 40" of free space in front of the louvers.
2. Follow the louver manufacturer's instructions.
3. Seal around all exterior components to prevent water penetration and damage.
4. Seal the sleeve tightly to the wallboard inside the room. If it is not completely sealed, the unit's fan can pull insulation into the unit and damage the unit.

⚠ WARNING: Fire Hazard

Using an unapproved louver may cause a fire, cause the unit to fail, or create leaks, and will void the warranty. Only used approved louvers.

⚠ WARNING: Water Damage

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

8 INSTALLATION | CONDENSATE DRAIN

8.1 Condensate Drain Options

The AIO Wall Mounted Pro unit is equipped with a condensate dispersal system, which includes a pump and spray mist head that drips the collected condensate onto the heat exchanger coil when in the cooling mode. This evaporates the condensate, eliminating the need for a condensate drain.

In the heating mode, or if used to cool in low ambient temperatures (i.e., below 64.5°F), this procedure is not feasible, and a condensate drain is required. The first step in selecting a condensate drain option is to determine where the condensate drain will be located.

- **In-the-wall drain**

This is the best type of drain and is typically installed by a plumber inside of the wall. For optimum performance and best appearance, use an internal wall drain whenever possible.

- **Direct exterior drain**

This is the easiest type of drain to install and discharges the condensate directly to the outside environment onto the ground.

Check local regulations first to ensure this type of drain is acceptable. Ensure that the condensate discharge will not cause any damage or impact walking/working surfaces. During winter months, this discharge can create an icy surface and a potential slipping hazard. During summer months, algae may also grow, creating a potential slipping hazard.

The drainage is accomplished by gravity only. For this reason, the unit-supplied rubber drain hose must slope downward at least 3.6" per foot along its entire length. If connecting a drainpipe to the rubber hose, use a PVC pipe with a minimum inside diameter of ¾" and a downward slope of at least ¼" per foot.

⚠ CAUTION: Water Damage

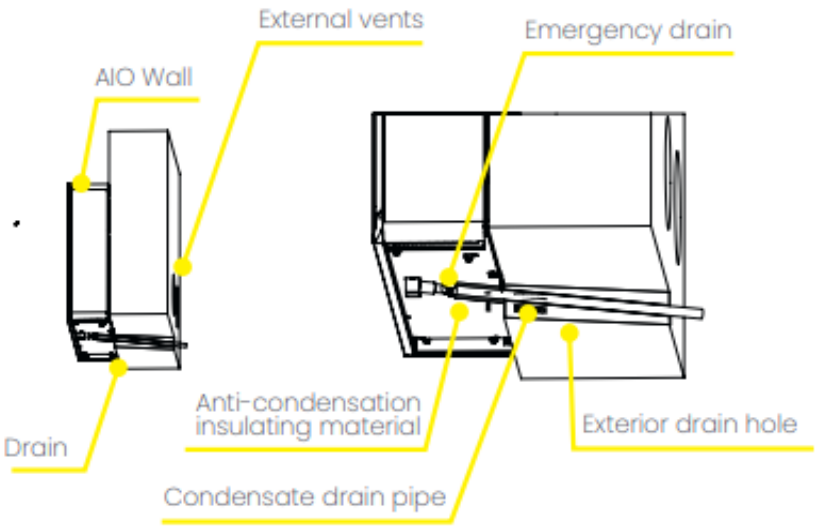
The exposed condensate pipe must be wrapped in anti-condensation insulating material. Failure to do so can result in water dripping onto the floor from the condensate pipe due to the temperature differences between the condensate and the room temperature. This can damage many types of flooring.

8.2 Connecting the In-the-Wall Drain

1. Have a licensed plumber install a drainpipe with a minimum ¾" inside diameter and a 45-degree fitting at the top. The opening of the 45-degree fitting should be lined up with the condensate hole on the template.
2. Test the drain by pouring water into it. Watch for proper draining and check for leaks.
3. Cut the attached rubber drainpipe so that at least 4" of rubber pipe will fit inside the internal drain.
4. Gently push the attached rubber drain inside the internal PVC drain. When connecting the condensate drain, be careful not to squeeze the rubber hose.
5. Check to make sure that the rubber pipe fits snugly inside the PVC pipe and that it will not pop out or otherwise detach.
6. Wrap the portion of the rubber drainpipe located inside the room with anti-condensation insulating material.

8.3 Connecting the Direct External Drain

1. Make sure the drain hole and assembly are set at least at a 30% downward slope.
2. Place the rubber drainpipe inside the hole, being careful not to squeeze the rubber hose. Wrap the portion of the rubber drainpipe located inside the room with anti-condensation insulating material.
3. Properly seal the pipe penetration using best practices based on the application and materials.
4. If additional lengths of external piping are used, the piping must be insulated to prevent freezing in the winter.



9 MAINTENANCE | CONDENSATE DRAIN

To reduce the risk of zooglea biofilm formation and maintain effective drainage, apply a coil-safe drain line cleaner (such as Valterra PowerMax) to all drain line components during installation. This helps inhibit early microbial growth within the system.

For ongoing maintenance, clean all condensate drain line components, including drain pans, collection boxes, pumps, and associated tubing, at least once every six months. In more demanding environments, more frequent cleaning may be necessary.

Always use coil-safe cleaning products to protect system components and ensure long-term performance.

10 INSTALLATION | ELECTRICAL CONNECTIONS

10.1 LCDI Power Cord Connection

Follow the instructions below if the AIO Wall Mounted Pro unit is supplied with a Leakage Current Detection Interrupter (LCDI) power cord:

1. Disconnect power from the breaker.
2. Remove the upper grille.
3. Remove the two (2) upper screws that fasten the front panel and remove the panel, lifting it slightly to do so.
4. Remove the two (2) upper screws that fasten the electrical part cover, and remove the cover.
5. Insert the male connector of the LCDI cord into the female receptacle on the terminal block.
6. Plug the LCDI cord into a properly sized and grounded three-prong electrical power outlet.

The outlet must match the LCDI power plug on the service cord and be within reach of the service cord. Do not alter the LCDI service cord or power plug. Do not use an extension cord.

Before connecting the AIO Wall Mounted Pro unit to the power receptacle, check the following.

10.2 Pre-Connection Check

1. The power supply voltage and frequency values comply with the data plate of the AIO Wall Mounted Pro unit.
2. The power outlet is a grounded connection and is sized for the maximum wattage of the AIO Wall Mounted Pro unit.
3. Power is supplied only via a suitable socket through the supplied plug.
4. The power supply is provided with suitable protection against overloads and/or short circuits. Using a correctly sized time-delay fuse or other equivalent device is recommended.

⚠ WARNING: Electrical Shock Damage

If the supply cable is replaced, this must be done exclusively by the technical assistance service or by authorized personnel and in compliance with current national and local regulations. **Improper wiring may result in death, serious injury, and/or property damage.**

NEMA5
115V receptacle for 115V

NEMA6
250V receptacle for 208/230V

10.3 Hardwired Connection

The AIO Wall Mounted Pro unit can be hardwired directly to a correctly sized circuit breaker. All connections must be made in accordance with the National Electrical Code and the local authority having jurisdiction. Only qualified electricians should perform this installation.

Mount a junction box behind the unit as indicated 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. Use the following procedure:

10.4 Making a Hardwire Connection

7. Disconnect power from the breaker.
8. Remove the upper grille.
9. Remove the two (2) upper screws that fasten the front panel and remove the panel, lifting it slightly to do so.
10. Remove the two (2) upper screws that fasten the electrical part cover, and remove the cover.
11. Disconnect the power cord by unscrewing the three (3) screws from the terminal block.
12. Connect the power cable, including the ground, checking that the power supply line has a suitable ground connection and that it is sized for the maximum requirement of the unit.

⚠ WARNING: Electrical Shock Damage

Disconnect 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 local codes by the authority having jurisdiction.

Improper wiring may result in death, serious injury, and/or property damage.

11 INSTALLATION | CHECK AIR LEAKAGE

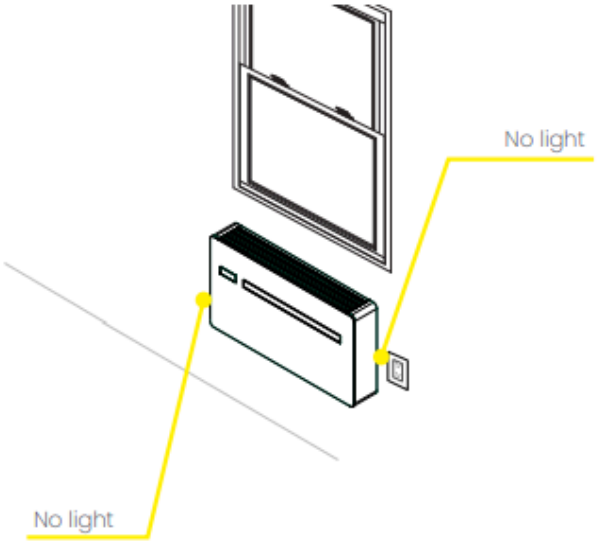
11.1 Air leakage

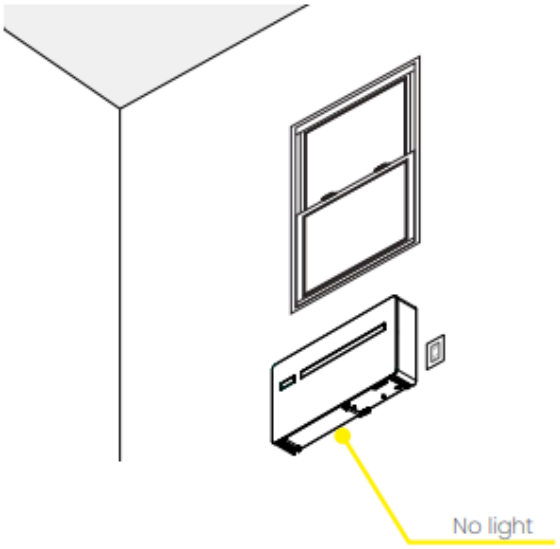
Most of the time, the walls are not perfectly straight. This can create a potential problem where there may be a gap between the wall sleeves and the rear of the AIO Wall Mounted Pro unit.

After mounting the AIO Wall Mounted Pro unit and securing the anti-lift bracket, the unit must be secured to the wall on all sides. To make sure, follow these steps:

11.2 Check for Air Leakage

1. Turn off the lights in the room.
2. Close the curtains. If there are no curtains, cover the windows to keep the room dark.
3. Look where the AIO Wall Mounted Pro unit meets the wall to see if there is any light infiltration. If the sleeves are secure to the back of the unit, there should be zero light infiltration.



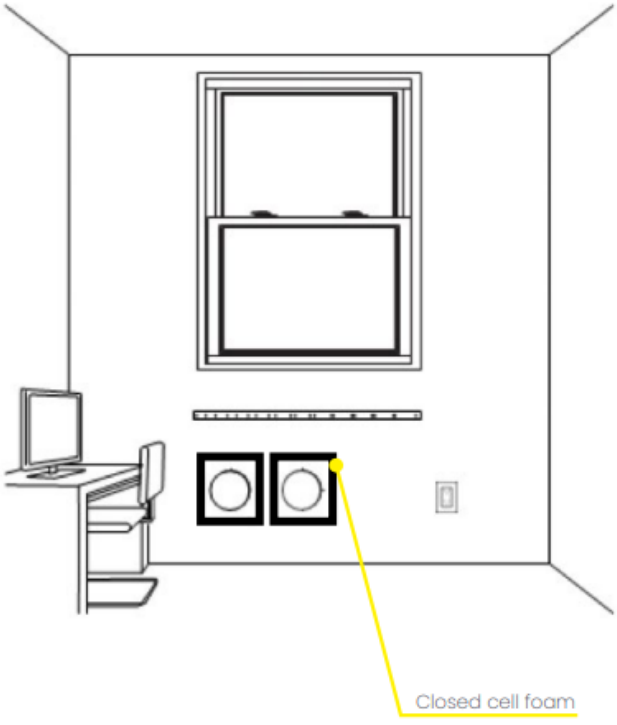


11.3 Fixing Air Leakage

When walls are not straight, the seal between the unit and sleeve will not be tight. This can be rectified by building up the area around the vent openings with closed-cell foam tape of the appropriate thickness.

The critical factor is to ensure the following.

4. No air can move between the intake and exhaust.
5. The outside intake air cannot infiltrate into the room.
6. The exhaust air cannot leak back into the room.



12 INSTALLATION | MOUNTING

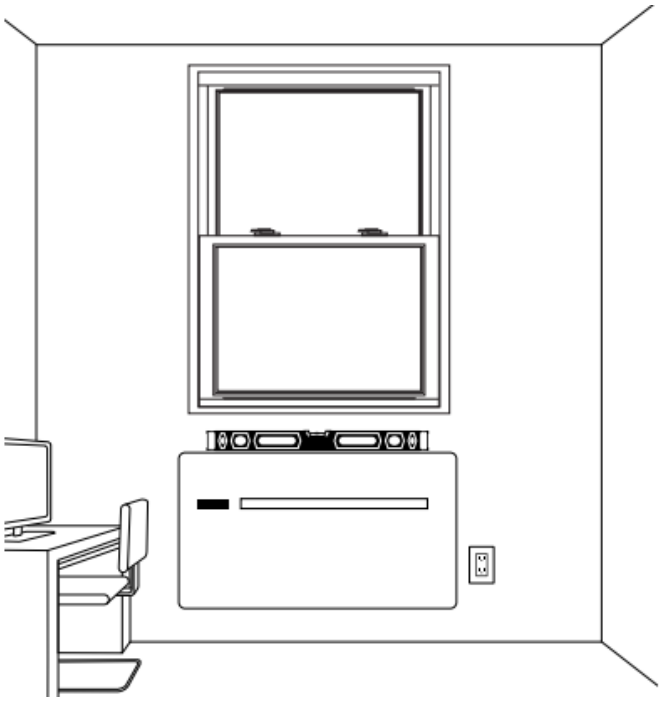
After checking that the bracket is securely anchored to the wall and 100% level, and that all necessary electrical connections and condensate drain preparations are completed, you can mount the unit on the bracket.

12.1 Hanging the AIO Wall Mounted Pro unit

1. With two (2) people, carefully lift the AIO Wall Mounted Pro unit by the sides of the bottom base until it clips onto the two prongs of the bracket. **NOTE:** To ease placement, slightly tilt the unit forward when hanging.
2. Once the AIO Wall Mounted Pro unit is set on the bracket, check to ensure that the unit is perfectly level.
3. If using a hardwired connection, make the necessary connection inside the unit according to local code and best practices. **Do not activate the unit or turn the breaker on until installation is completed.**
4. Connect the condensate drainpipe according to the method selected.

⚠ WARNING: Lifting Hazard

Use two (2) people when lifting and installing the unit. The unit is unbalanced on the right (compressor) side. Lift with your legs, not your back. **Failure to do so can result in back injury or other injuries.**



13 INSTALLATION | ANTI-LIFT BRACKET

An anti-lift bracket is provided to keep the AIO Wall Mounted Pro unit level in the installation and during operation. Keeping the unit level during operation is key to reliable performance over time.

13.1 Fastening the Anti-Lift Bracket

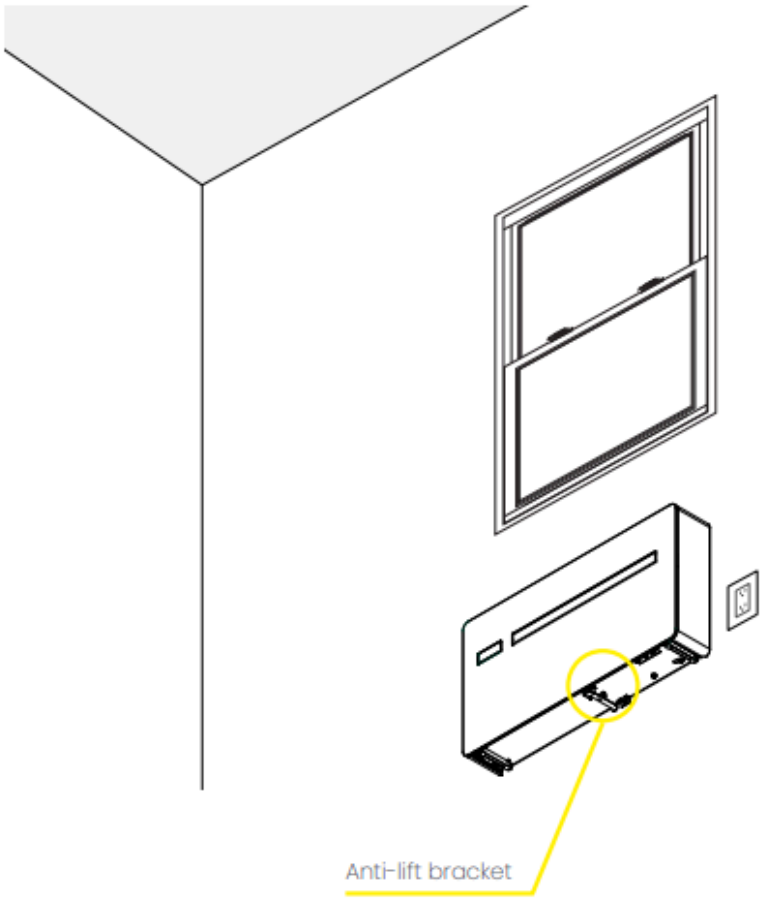
1. Fasten a screw into the anti-lifting bracket's hole and secure it to a stud. If a hollow wall adjoins the unit, fasten the bracket with a TOGGLER® brand, SNAPTOGGLE® Heavy-Duty Toggle Bolt model number BB or BBS in ¼". Do not use any other fastener.
2. Turn off the lights in the room and check both sides of the unit to ensure no light is visible from the outside. There should be no light visible.
3. Use a level to make sure the AIO Wall Mounted Pro unit is perfectly level on the vertical axis. If the AIO Wall Mounted Pro unit is back- or front-pitched, even slightly, the unit may leak in humid conditions.

ATTENTION: Air Leakage

In some instances, walls are not level, and there can be a gap between the sleeve and the back of the unit. Check for this by turning off the lights to see if there is any light coming through the back of the unit. If there is, add insulation tape around the openings to create a tight seal.

⚠ WARNING: Water Damage

If the AIO Wall Mounted Pro unit is not perfectly level on the vertical axis, the unit can leak.


Anti-lift bracket

14 CONFIGURATION | HIGH WALL MODIFICATION

The AIO Wall Mounted Pro unit can be installed in a high wall application. The unit is factory-configured for low wall installation, where the air flow is directed upwards. This works well for heating and cooling in floor installations.

If installing as a high wall application, the direction of the air flow must be modified by adjusting the position of the air louver so that air blows downwards instead of upwards. This is achieved by modifying the bracket on the unit and changing the program code.

Additionally, a lower cover panel (Part GB0737II) should be installed to cover the unfinished bottom of the AIO Wall Mounted Pro unit.

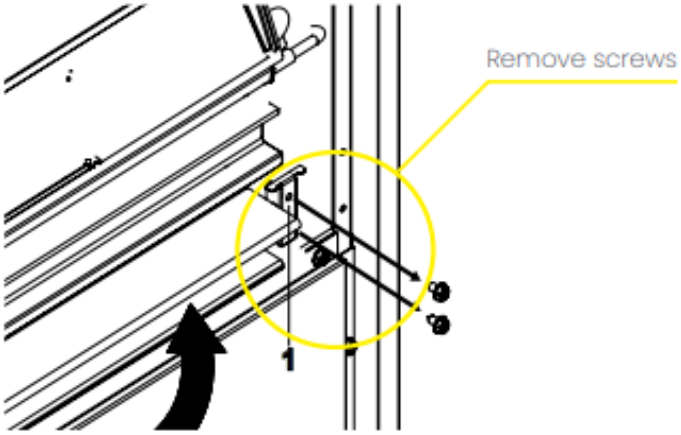
To modify the AIO Wall Mounted Pro unit for high wall installation, follow the steps below:

⚠ WARNING: Electrical Shock Hazard

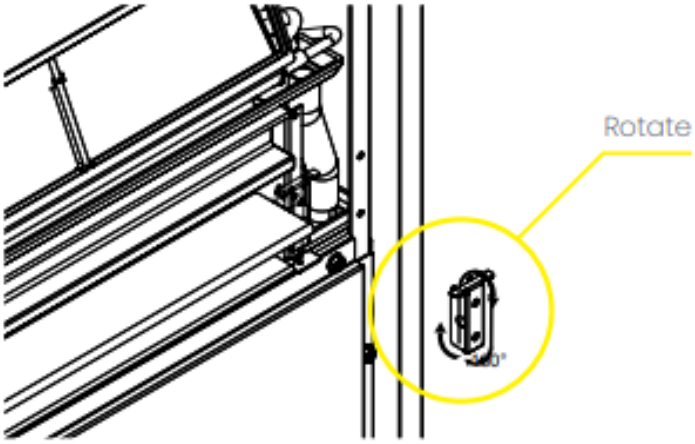
When the AIO Wall Mounted Pro unit is in the OFF position, voltage is still being supplied to the electrical controls. Disconnect the power to the unit before opening it to avoid electric shock or damage to the AIO Wall Mounted Pro unit. This is done by (a) removing the power supply cord from the wall power outlet, or (b) disconnecting the circuit breaker or fuses. **Failure to follow this warning can result in death, serious injury, and/or property damage.**

14.1 Changing the Louver Bracket

- ☐ Make sure power is disconnected from the AIO Wall Mounted Pro unit.
- ☐ If the front cover is not already removed, remove it.
- ☐ Remove the screws from the right-side louver support bracket.



☐ Rotate the right-side louver support bracket.



☐ Reinstall the right-side louver support bracket screws.
☐ Reinstall the front cover panel and grille with the screws supplied.

Once the physical modifications have been made to the AIO Wall Mounted Pro unit—including installing the lower body cover and changing the direction of the louver bracket—the AIO Wall Mounted Pro unit must be programmed as well. The programming will be stored in the unit and will not be lost if there is a power outage or when the power is moved from the wall outlet.

14.2 Programming the Louver Direction

1. Reconnect the power.
2. Press ⏻ so the display is activated; the unit can be in any mode.
3. Press the ↭ key and keep it pressed for ten (10) seconds.
4. The DN (low wall installation) symbol will flash on the display. Reinstall the right-side louver support bracket screws.
5. Press the ↭ key again.
6. The UP (upper wall installation) symbol will momentarily light up on the display. Do not touch the display; wait a few seconds for the new setting to be installed.
7. After the new setting is fully installed, the display will return to normal.

15 CONFIGURATION | OCCUPANCY SENSOR

The AIO Wall Mounted Pro unit can be connected to an occupancy sensor—e.g., an open window contact, on/off remote, infrared presence sensors, enabling badge, etc.—to activate and deactivate the unit.

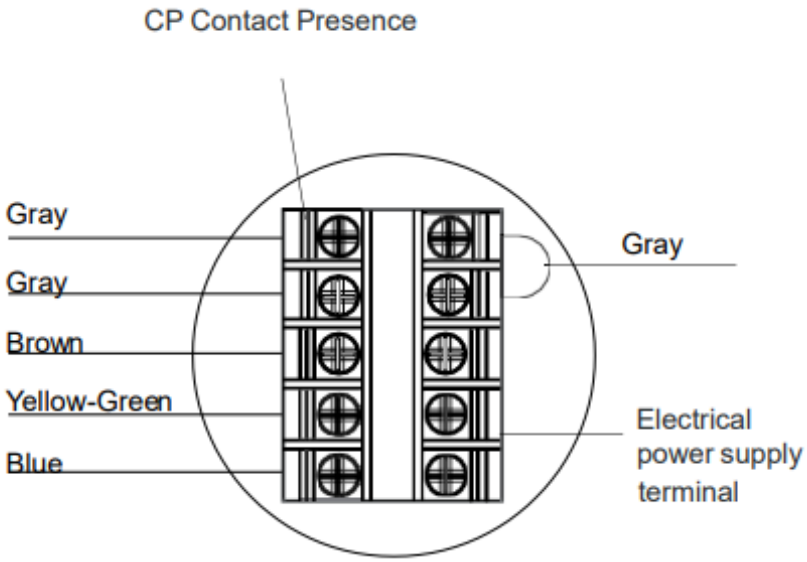
When the contact opens, the unit is placed in standby mode, and CP displays on the screen. (NOTE: "CP" stands for Contact Present.)

Use only double-insulated cable.

NOTE: For versions with auxiliary electric heat resistance, in order to prevent internal overheating, do not abruptly disconnect voltage from the unit. Use the CP contact that places the unit in standby mode, guaranteeing the required post-operational ventilation.

⚠ WARNING: Electrical Shock Hazard

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 having jurisdiction. **Improper wiring may result in death, serious injury, and/or property damage.**



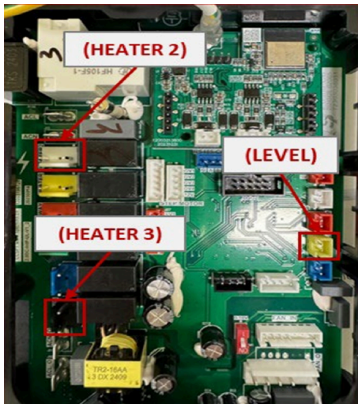
Configuring Heat Strip Wattage

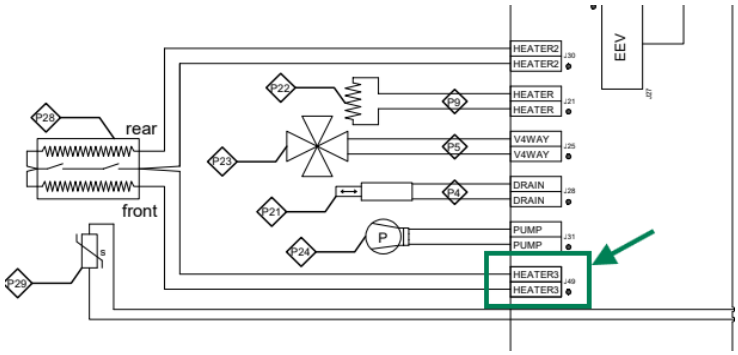
The AIO Wall-Mounted Unit 230V with Heat Strip includes two 900 W heating strips, which can operate together (1800 W) or individually (900 W). Use this procedure to configure the desired wattage during installation or at first startup.

1. **Turn off the power.**

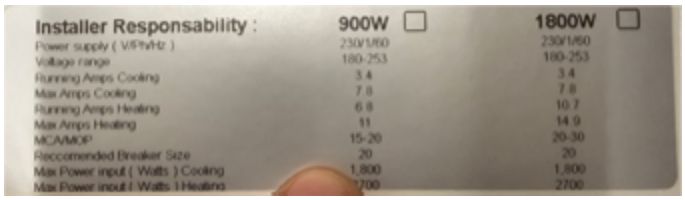
- Disconnect power to the unit to prevent accidental activation.
- Unplug the unit or switch off the circuit breaker.
- Wait at least 5 minutes and verify that all indicator lights are off before proceeding.

2. **Access the Heating settings.**
   - On the onboard touch controller, select `Ht`.
   - Select `N0` 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).





   - 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.



16 TESTING

After installation, it is important to test the AIO Wall Mounted Pro unit to ensure proper operation.

To test the unit, perform the following steps:

1. Check the power supply and verify it is within an acceptable range and that the unit is properly grounded.
2. Set the unit to Cool on its lowest setting and verify that the unit cools.
3. Turn the unit off for 10 minutes before switching to heating mode.
4. Set the unit to Heat at the highest setting and verify that the unit heats.
5. Test each fan speed.
6. If installed with an AIO Wall Mounted controller, test the controller for steps 2 -5.
7. Ensure the required free spaces are not obstructed.

17 CERTIFICATION

Notes:

- 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 a tight plastic wrap and do not operate it until all dust and debris in the environment has been removed.

In order to ensure the best experience possible with the AIO Wall Mounted Pro unit, we send an Ephoca-certified technician to inspect each AIO Wall Mounted Pro unit that is installed and certify the installation before the AIO Wall Mounted Pro unit is used.

After performing the inspection and certifying that the AIO Wall Mounted Pro unit is installed correctly, the Ephoca-certified technician will sign and validate the warranty. The Ephoca-certified technician will review the items on the checklist to the right.

You are required to inform the client not to use the AIO Wall Mounted Pro unit before certification by an Ephoca technician, as it may void the warranty.

Please contact the dealer from whom you purchased the AIO Wall Mounted Pro unit to coordinate the inspection.

17.1 Post-Installation Certification Checklist

Appropriate Use:

- ☐ The AIO Wall Mounted Pro unit's cooling/heating capacity is sufficient to cool/heat the room it is located in.
- ☐ The interior vents are not blocked by any furniture, plants, or window coverings.

Mounting:

- ☐ Wall bracket is securely hung—at least two (2) screws are in cement or wood, and the other four (4) screws are ¼" load-bearing wall anchors that support at least 50 lbs and can be removed cleanly from the wall.
- ☐ The unit is mounted at 100% level on the vertical axis and has a ⅛" slope to the right on the horizontal axis.
- ☐ The unit is flush to the wall with no gaps between the wall and the back of the unit.
- ☐ Anti-lift bracket is fastened to wood or with ¼" load-bearing wall anchors that support at least 50 lbs and can be removed cleanly from the wall.
- ☐ The tip sensor is clear.

External Vents

- ☐ The wall sleeve is sealed to the wall with no gaps.
- ☐ Approved exterior grilles are installed.
- ☐ Exterior grilles are installed correctly.
- ☐ Exterior grilles are properly sealed.
- ☐ External vent holes are 100% aligned internally with the AIO Wall Mounted Pro unit's vent holes.
- ☐ Exterior vents are not blocked by walls or plantings.

Electrical

- ☐ The power receptacle is in good working condition, and the LCDI plug fits snugly if using an LCDI cord.
- ☐ The circuit breaker is within the specifications required.

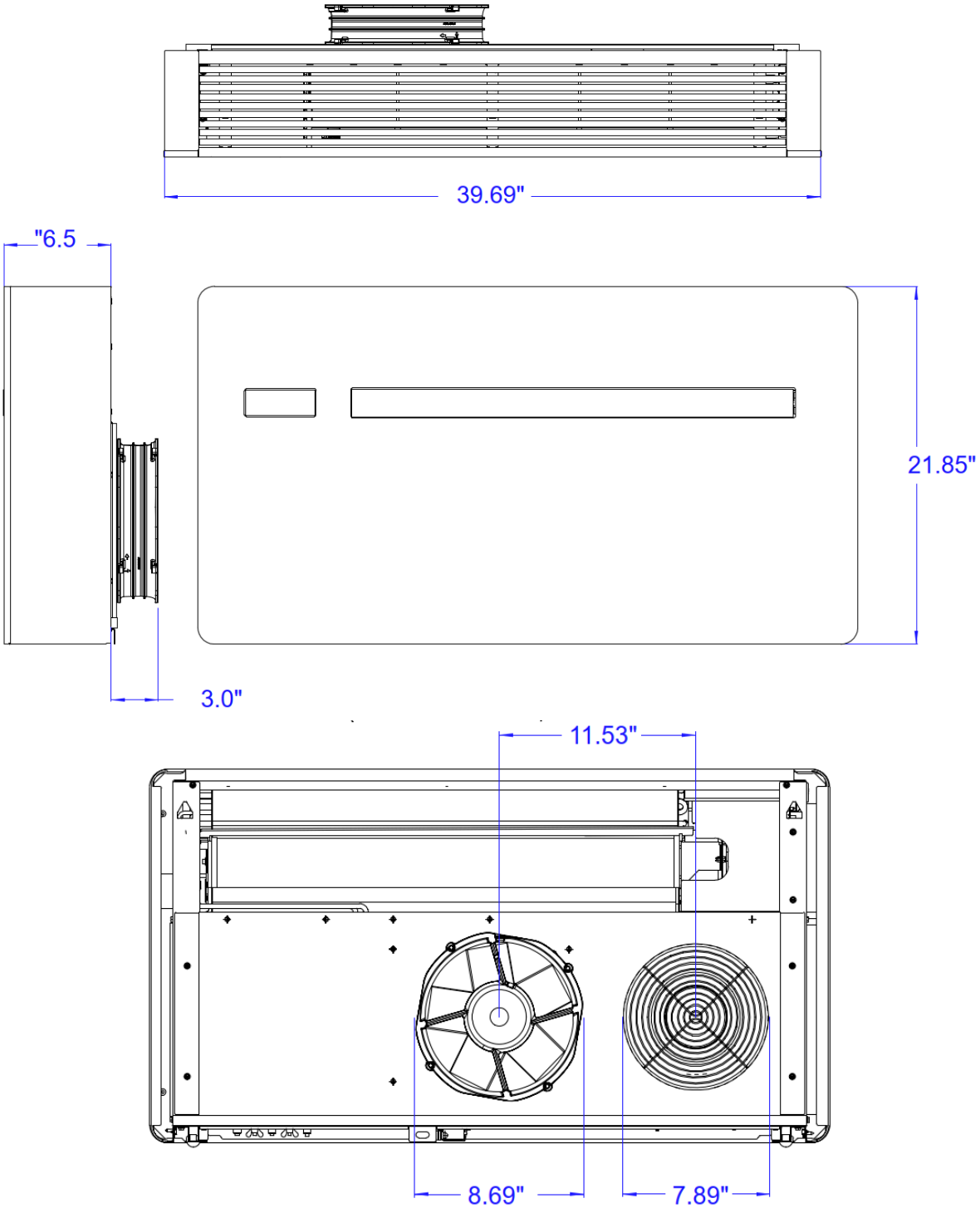
Drainage (if using for heating)

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

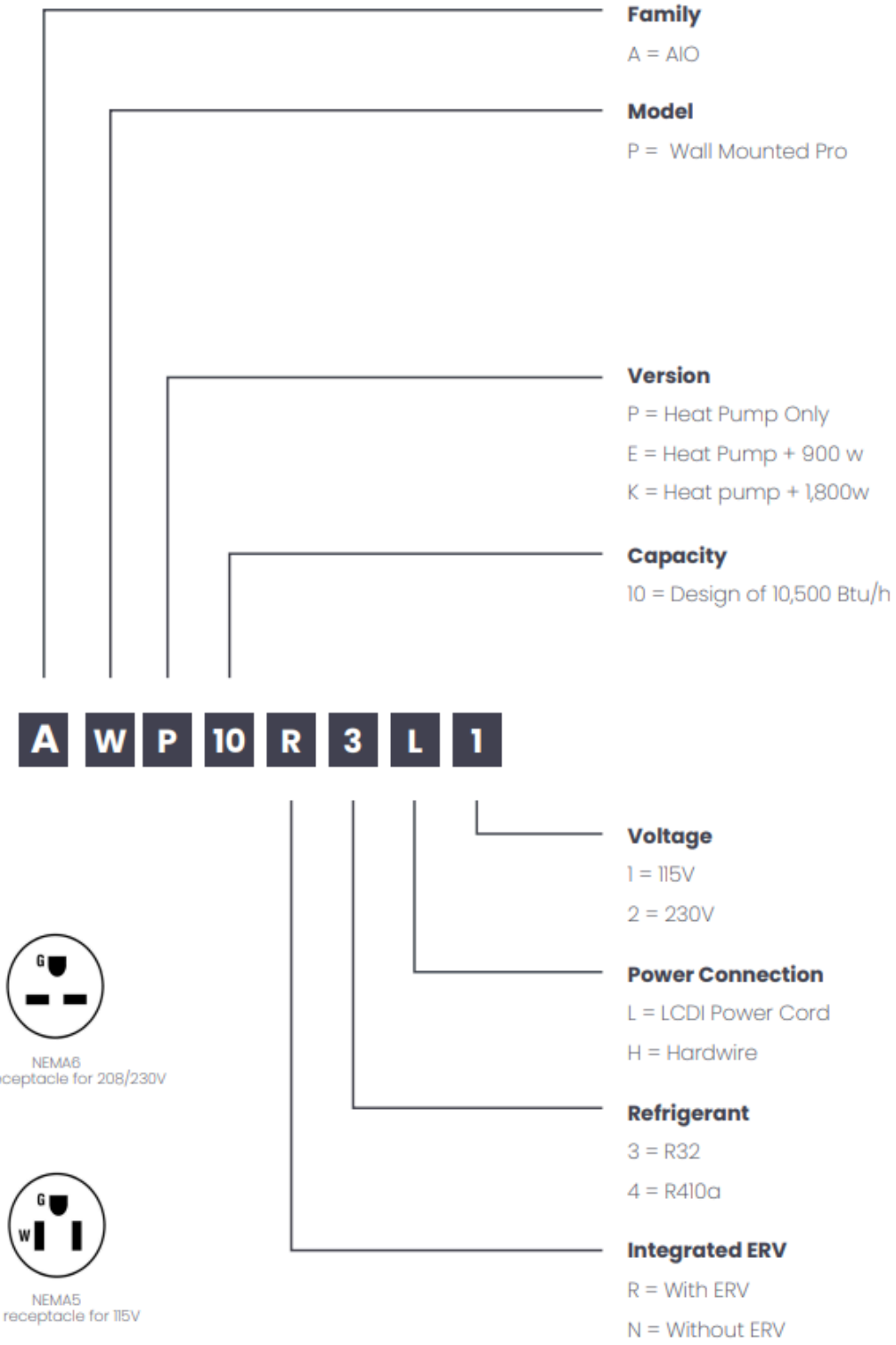
18 TECHNICAL INFO | DIMENSIONS

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

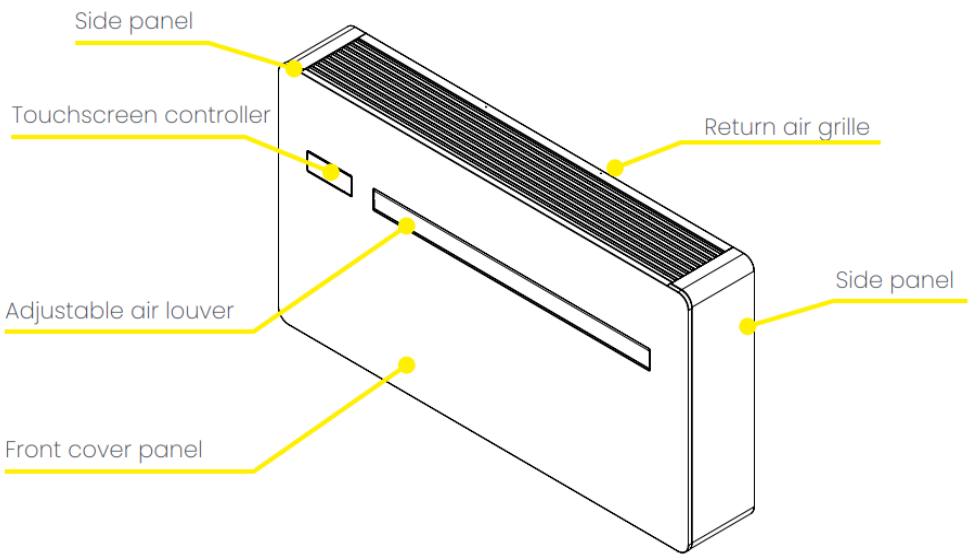
PDF AIO Wall Mounted Pro Dimensions.pdf

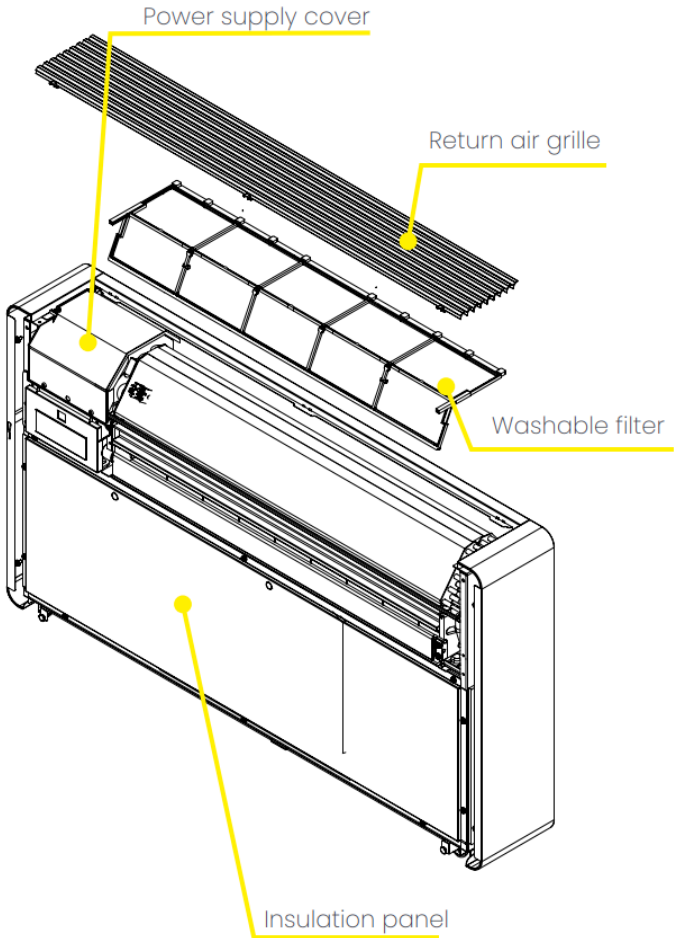

39.69"
"6.5
21.85"
3.0"
11.53"
8.69"
7.89"

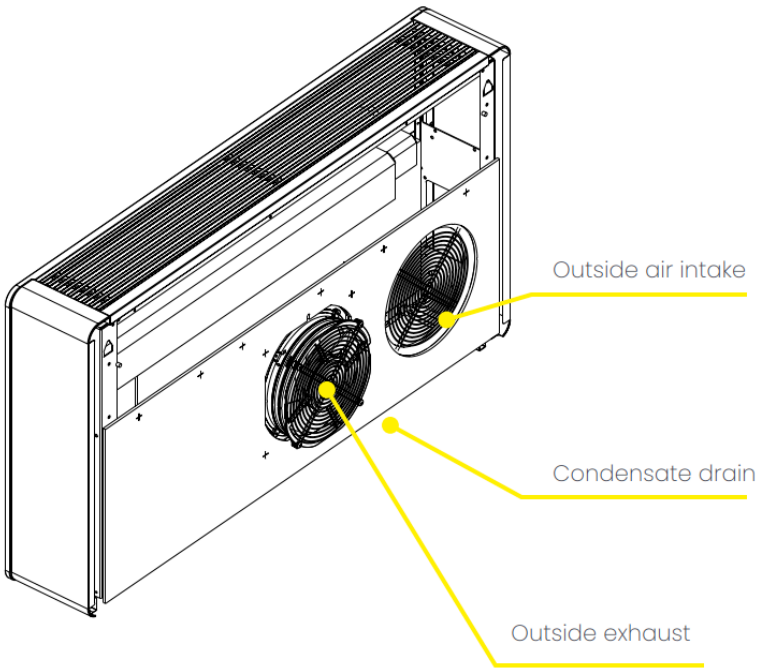
19 TECHNICAL INFO | NOMENCLATURE



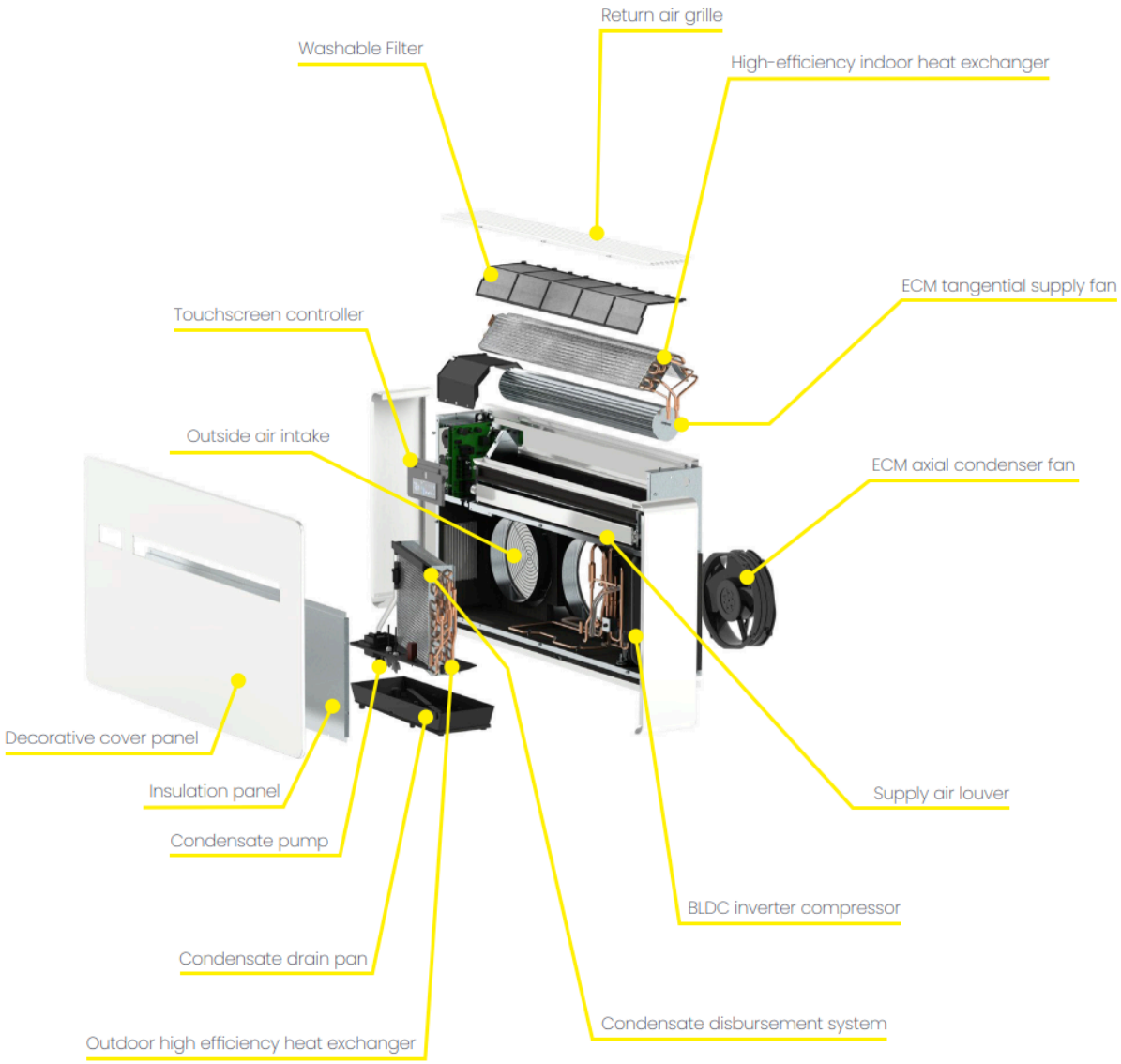
20 TECHNICAL INFO | UNIT COMPONENTS






Outside air intake
Condensate drain
Outside exhaust

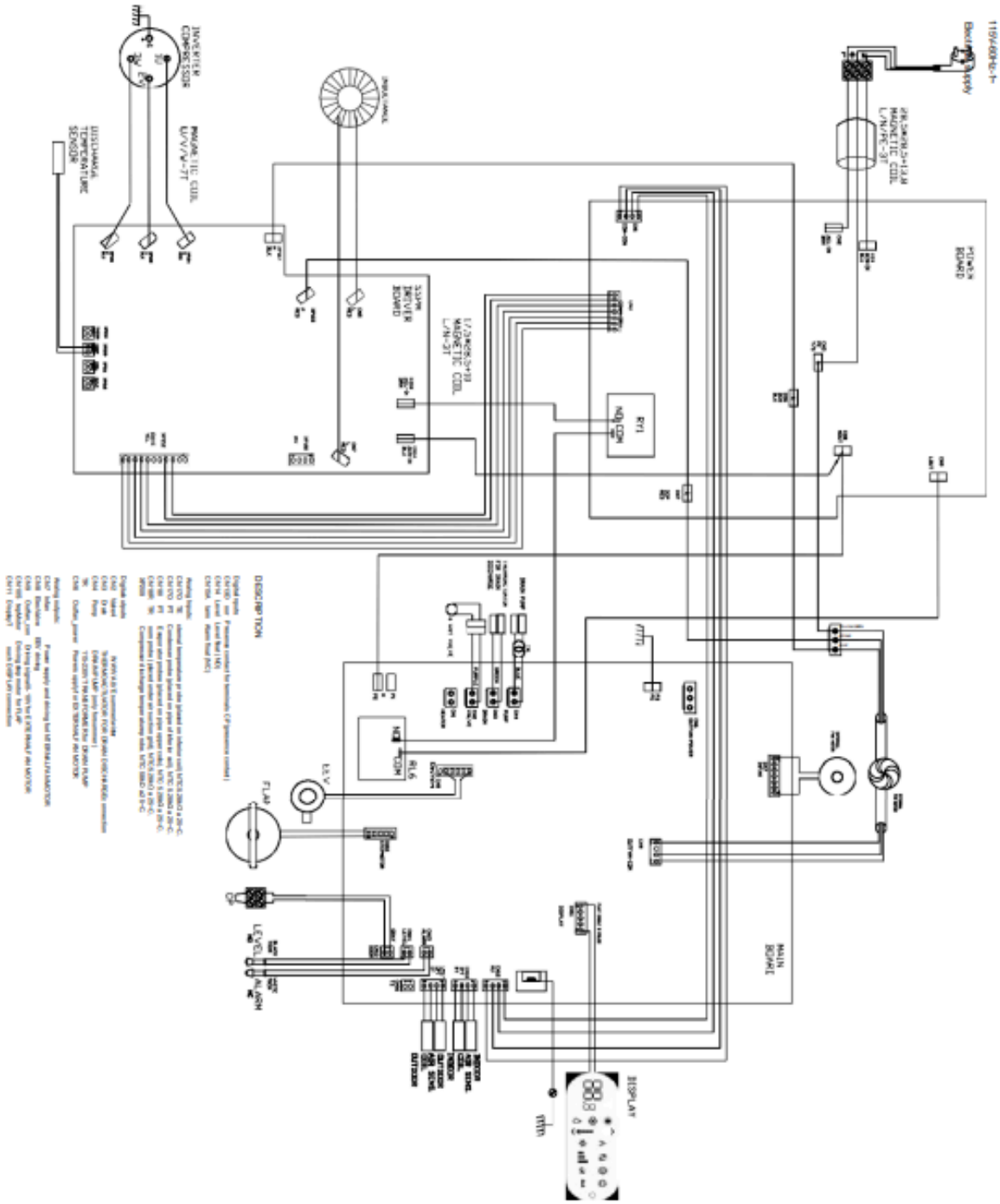
21 TECHNICAL INFO | WHAT'S INSIDE



21.1 AIO Wall Mounted Pro 115 VAC Wiring Diagram

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

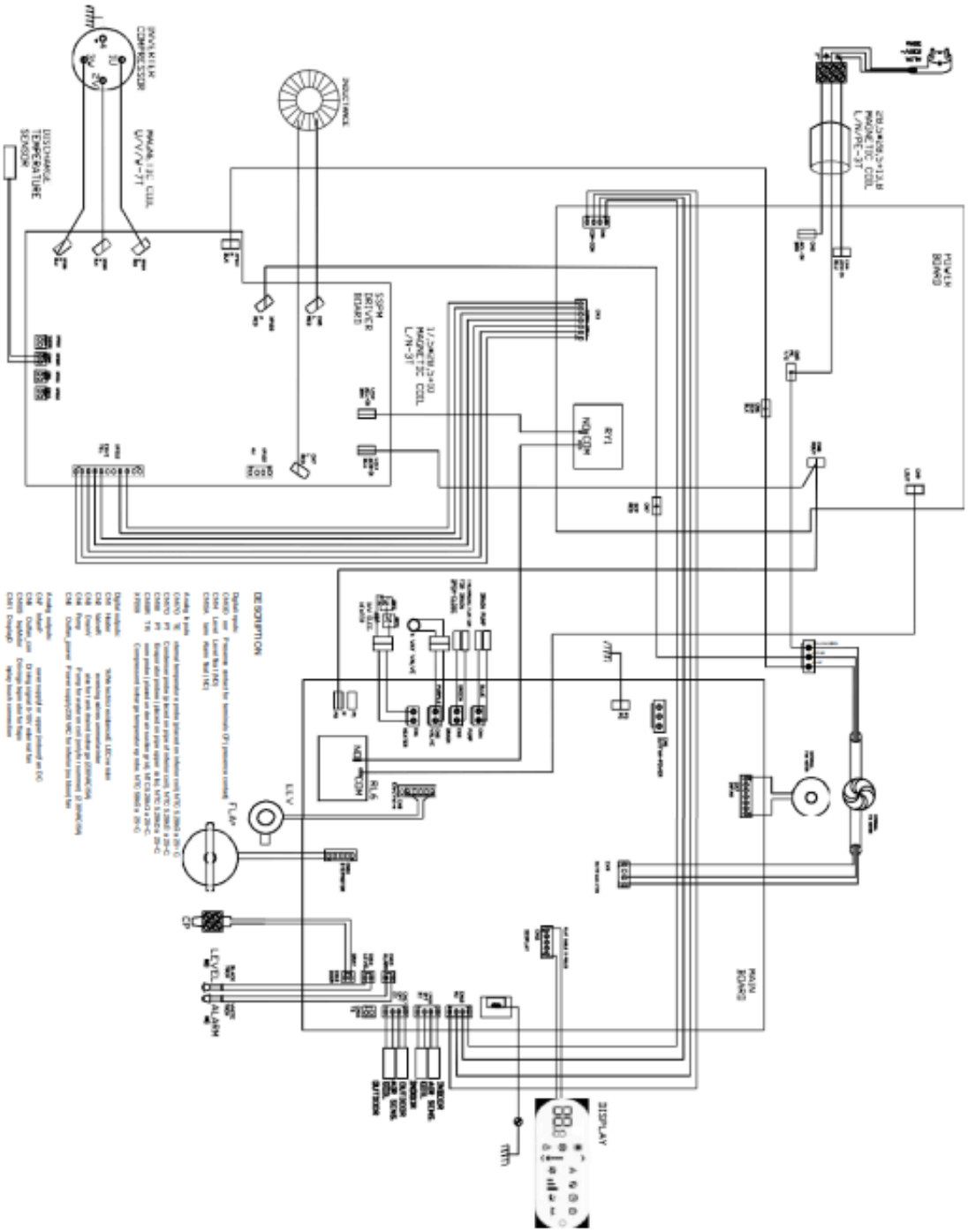
AIO Wall Mounted Pro 115 VAC wiring diagram.pdf



21.2 AIO Wall Mounted Pro 230 VAC Wiring Diagram

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

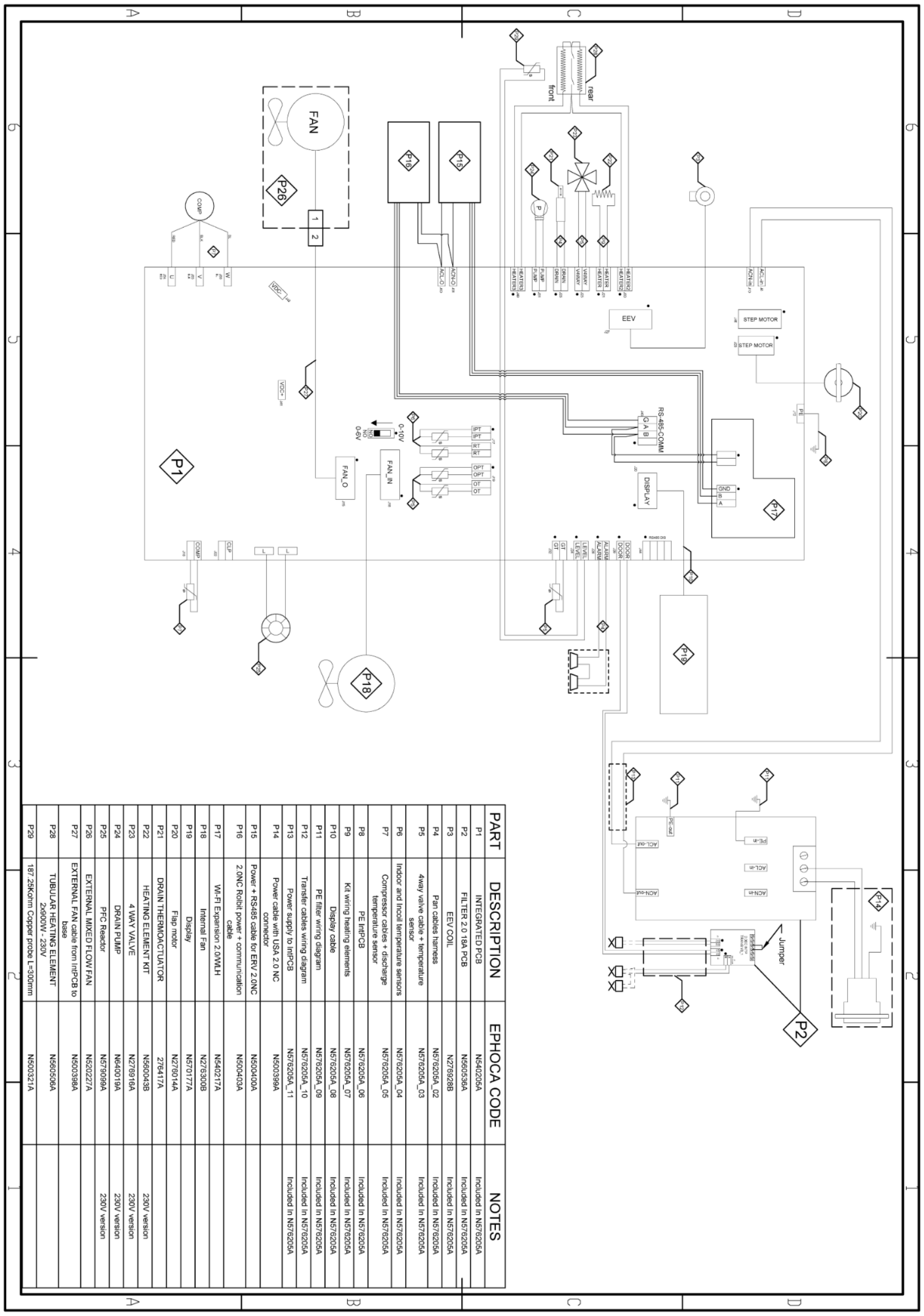
AIO Wall Mounted Pro 230 VAC wiring diagram.pdf



21.3 AIO Wall Mounted Pro 230 VAC with Heat Strip Wiring Diagram

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

AIO Wall Mounted Pro 230 VAC wiring diagram with Heat strip.pdf



PART	DESCRIPTION	EPHOCA CODE	NOTES
P1	INTEGRATED PCB	N540205A	Included In N576205A
P2	FILTER 2.0 18A PCB	N560536A	Included In N576205A
P3	EEV COIL	N276928B	Included In N576205A
P4	Pan cables harness	N576205A_02	Included In N576205A
P5	4way valve cable + temperature sensor	N576205A_03	Included In N576205A
P6	Indoor and Incoil temperature sensors	N576205A_04	Included In N576205A
P7	Compressor cables + discharge temperature sensor	N576205A_05	Included In N576205A
P8	PE IntPCB	N576205A_06	Included In N576205A
P9	Kit wiring heating elements	N576205A_07	Included In N576205A
P10	Display cable	N576205A_08	Included In N576205A
P11	PE filter wiring diagram	N576205A_09	Included In N576205A
P12	Transfer cables wiring diagram	N576205A_10	Included In N576205A
P13	Power supply to IntPCB	N576205A_11	Included In N576205A
P14	Power cable with USA 2.0 NC connector	N500399A	
P15	Power + RS485 cable for ERV 2.0NC	N500400A	
P16	2.0NC Rolbit power + communication cable	N500403A	
P17	WI-FI Expansion 2.0/WLH	N540217A	
P18	Internal Fan	N276300B	
P19	Display	N570177A	
P20	Flap motor	N276014A	
P21	DRAIN THERMOACTUATOR	276417A	
P22	HEATING ELEMENT KIT	N560043B	230V version
P23	4 WAY VALVE	N276916A	230V version
P24	DRAIN PUMP	N640019A	230V version
P25	PFC Reactor	N579099A	230V version
P26	EXTERNAL MIXED FLOW FAN	N520227A	
P27	EXTERNAL FAN cable from IntPCB to base	N500398A	
P28	TUBULAR HEATING ELEMENT 2x900W - 230V	N560506A	
P29	187.25Kohm Copper probe L=300mm	N500321A	

21.4 Warranty Information

For detailed terms and conditions, click on the link below:

Warranty Terms and Conditions - 2025

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.

Ephoca is the US subsidiary of Innova SRL - Via 1° Maggio, 8 – 38089 Storo (TN), Italy.

ephoca.com | 216-710-1000

MADE IN ITALY

AIO Wall Mounted Pro unit Installation manual