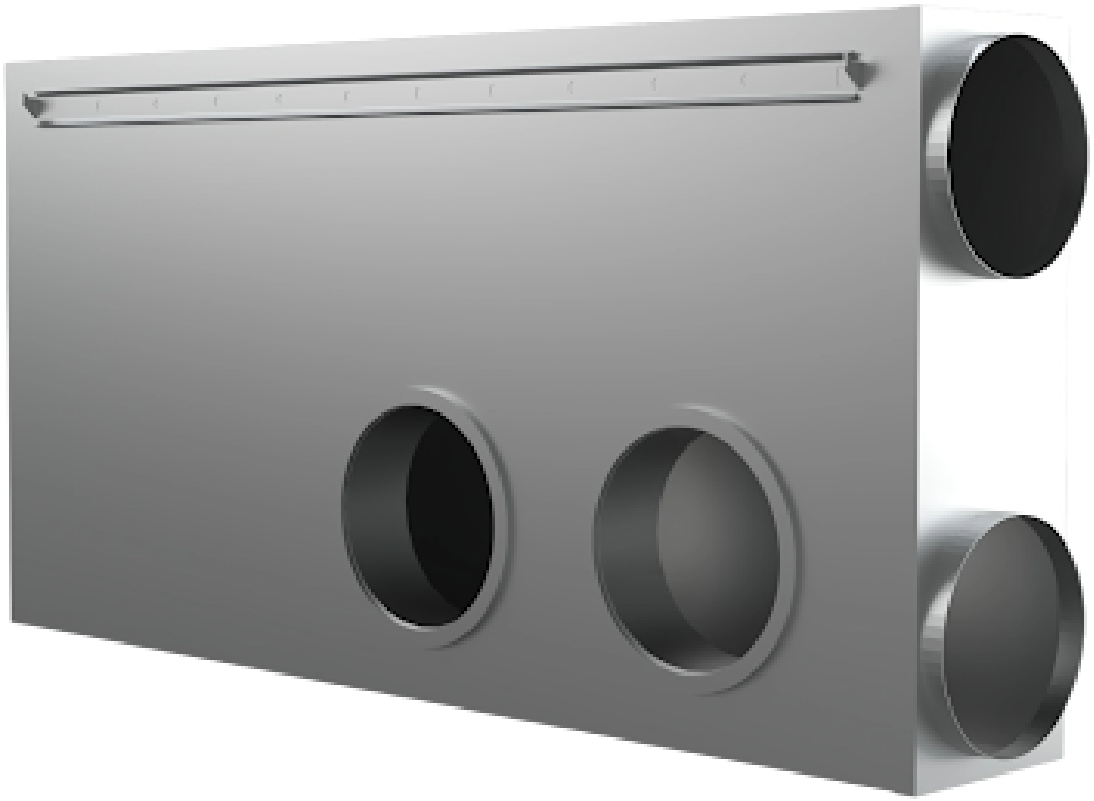
AIO® Sidewall Adapter (SWA) for Wall Mounted Units

Installation Guide



innova

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DISCLAIMER



IMPORTANT - TRAINING IS REQUIRED PRIOR TO PERFORMING ANY 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).

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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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1. ABOUT THIS GUIDE

This guide outlines the required procedures for safely installing a Sidewall adapter (SWA) and connecting it to an AIO® Wall Mounted Standard unit. Following these instructions reduces the risk of equipment damage, improper installation, and potential safety hazards.

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

Note: This guide is shipped with the gateway and is the property of the customer. Make sure this guide is left in the customer's possession.

1.1 Specific language

Some language and symbols in this guide have specific meanings.

References to the product

- In this document, the sidewall adapter being installed is referred to as "the SWA".
- References to "the AIO unit" or "the Wall Mounted unit" refer to the AIO® Wall Mounted Standard unit being installed with the sidewall adapter.
- References to "the unit" refer to the AIO® unit when used in contexts related to it, such as procedures for opening, testing, or closing the AIO unit. When "the unit" is used in safety warnings and similar general statements, it refers to both the AIO unit and the SWA.

Unit orientation

All directions in this guide (left, right, top, and bottom) are given from the perspective of facing the SWA or AIO unit described in that paragraph, unless otherwise specified.

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 AIO unit and perform basic diagnostics and maintenance.
- **Installer:** A trained and certified HVAC installation technician responsible for the correct installation of the SWA and AIO units as indicated in the relevant installation guides and in accordance with all local and national codes.
- **Service technician:** A trained and qualified HVAC professional who performs service or maintenance in compliance with OSHA safety requirements, recognized industry best practices, and all applicable federal, state, and local codes and standards.
- **Trained HVAC technicians:** A group term for both installation and service technicians.

1.2 Safety notices, icons, and symbols

Warnings, Cautions, and Annotations are included throughout this guide. Read each carefully and follow the stated instructions.

Safety notices

Each safety notice represents the level and immediacy of risk. Each warning panel displays a background color and a signal word and includes an icon to specify the topic.

DANGER

A red notice with the **DANGER** title indicates an imminently hazardous situation that could result in death or serious injury if not avoided.

WARNING

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

CAUTION

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

Warning icons
The warning icons indicate the type of risk and are used in conjunction with the safety notice panels.

	The flame icon indicates information related to a hot surface or explosion hazard.
	The lightning-bolt icon indicates a warning related to electrical hazards.
	The hand icon indicates information related to a hazard involving moving parts and sharp surfaces.
	The exclamation-mark icon indicates general hazards (environmental, lifting, and other categories).

Annotation icons
Annotations are provided throughout this guide. It is important to read each one carefully and follow the stated instructions.


Indicates instructions or information that is important to note to ensure optimal installation or operation of the unit.

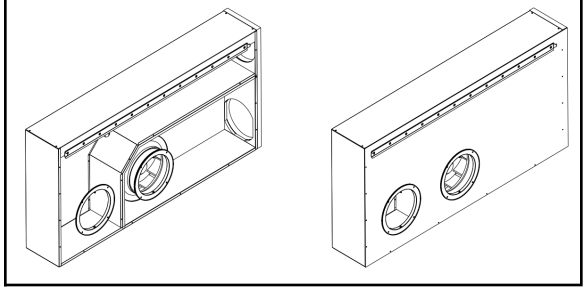

Indicates supplemental information, tips, or useful background information.

2. SIDEWALL ADAPTER (SWA) FOR AIO® WALL MOUNTED UNITS - OVERVIEW

The sidewall adapter (SWA) is designed for use with an AIO® Wall Mounted Standard unit when mounting the AIO unit on an exterior wall is not feasible or practical. The SWA enables installation of the AIO unit on a perpendicular interior wall by routing the airflow through a 90° sidewall connection via an integrated EC fan.

The SWA is mounted inside the wall behind the AIO unit, where it is not visible, and vents to the outside through two holes, for intake and exhaust. It includes a mounting bracket to hold the AIO unit. The SWA is wired to the AIO unit with an adapter cable and wiring harness (included) and is powered and controlled by the AIO unit.

Figure 1. Sidewall adapter - internal and external views



2.1 SWA to AIO unit compatibility

The AIO sidewall adapter (SWA) is available in compatible models for all configurations of the AIO Wall Mounted Standard unit.

- SWA models for Wall Mounted Gen 1 have 6" (152 mm) vents and are available in 115 V and 230 V configurations.
- SWA models for Wall Mounted Gen 2+ are available with 6" (152 mm) or 8" (203 mm) vents and have 115/230 V dual power.

In addition, all SWA configurations are available in both left- and right-side models, where "left" and "right" are defined by the side of the AIO unit facing the exterior wall (i.e., the side toward which the airflow is routed).

The following models are available for the SWA:

Table 1. Sidewall adapter models.

For Wall Mounted	Vent Size	Power	Side	SKU
Gen 1	6" (152 mm)	115 V	Right	**L01062**
			Left	**L01069**
		230 V	Right	**L00771**
			Left	**L00772**
Gen 2	6" (152 mm)	115/230 V (dual)	Right	**L00773**
			Left	**L00774**
	8" (203 mm)	115/230 V (dual)	Right	**L01074**
			Left	**L01075**

2.2 Sidewall adapter (SWA) specifications

The following are the specifications of the sidewall adapter:

- Material: Aluminum
- Fan: Centrifugal EC, 282 CFM (7.98 m^3/min)
- Dimensions:
  - Width: 38.9" (988.1 mm) plus 0.8" (20 mm) of foam insulation
  - Height: 19.8" (502.5 mm)
  - Depth:
    - For SWA with 6" vents: 6.6" (166.5 mm)
    - For SWA with 8" vents: 8.1" (206.5 mm)
  - Weight:
    - For SWA with 6" vents: 28.7 lb. (13 kg)
    - For SWA with 8" vents: 43 lb. (19.5 kg)
- Power Consumption: 50W


The sidewall adapter is an optional accessory for the AIO unit. It must only be used for this purpose.

3. SAFETY GUIDELINES - READ BEFORE INSTALLING

This guide details the proper procedure for the safe installation of a sidewall adapter with an AIO® unit. By following these instructions, the risk of damage to the equipment can be significantly reduced.

Read the entire installation guide before beginning installation. Pay careful attention to all safety notices and warnings.

Failure to apply the indicated rules may cause malfunctions in the appliances and relieve the manufacturer of any warranty and of any liability for damage to persons, animals, or property.

All safety regulations in force at the installation site, as well as common-sense precautions, must be followed.

The precautions listed in this installation guide are intended to supplement accepted safe practices. In case of a direct conflict between accepted safety practices and this guide, the more stringent precaution takes precedence.

Failure to follow the instructions in this guide can result in property damage, serious injury, or death.

3.1 Fire/explosion hazards

⚠ WARNING

- 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.

3.2 Electrical hazards

⚠ DANGER

- Only trained HVAC technicians may install this gateway. Improper modifications by an unqualified person can result in serious injury or death.
- When working on the equipment, observe all precautions in the guide and on the equipment labels.
- Before installation, maintenance, or servicing, disconnect power to the entire system. Verify that power to the entire system is off, including any remote disconnects, peripherals, third-party devices, and devices connected to the unit's network.
- Follow all OSHA-compliant Lockout/Tagout (LOTO) procedures.

⚠ WARNING

- All electrical connections, wiring, and grounding must be performed by a qualified electrician and must comply with the National Electrical Code (NEC/NFPA-70) and all local codes that hold jurisdiction. Improper wiring or loose connections may cause overheating, fire, or electric shock.
- Use only the supplied installation-specific components. Using different components could lead to water leakage, electric shock, or fire.
- Do not open access panels to the interior of the unit without first disconnecting the power and/or turning off the breaker.
- The unit contains capacitors that may retain an electrical charge after the power is disconnected. Thus, before beginning any installation or servicing, to avoid electrical shock or serious injury, be sure to:
  - Discharge all motor start-run capacitors.

⚠ WARNING

  - Verify (using a voltmeter) that no power is running into the unit.
  - Wait at least five minutes for the AIO unit to cool down and for the capacitors inside the unit to discharge.

⚠ CAUTION

- In the event of a blackout or thunderstorm, turn the unit off and disconnect it from the power source immediately.

3.3 Moving parts hazards

⚠ DANGER

- Do not operate the equipment with panels, guards, or covers removed, except when specifically instructed by the procedures below to test the installation.
- Ensure power is disconnected and components have come to a complete stop before accessing the interior. Internal fans, motors, and other moving components may start automatically when power is supplied.

⚠ WARNING

- Keep hands, hair, tools, and loose clothing away from fans and moving components. Contact with moving parts can cause serious injury.
- Do not remove, bypass, or disable protective covers, guards, or safety interlocks.

3.4 General safety guidelines

⚠ WARNING

- Do not modify or tamper with the sidewall adapter or the AIO unit. Unauthorized alterations may compromise safety, create hazardous conditions, and void the warranty on the AIO unit.
- Wear appropriate personal protective equipment (PPE) such as gloves and safety glasses during the installation process.
- Only a qualified HVAC professional may install this unit. The installer must be licensed, insured, or bonded, as required by local regulations.

Installation by anyone other than an INNOVA-trained and qualified HVAC professional voids the warranty on the AIO unit.

⚠ CAUTION

Make sure all louvers are INNOVA-approved. Installation of louvers or grilles that do not meet the required specifications may cause:

- Overheating of the unit.
- Water damage.
- Reduced performance.
- Voiding of the AIO unit warranty.

3.5 Installer responsibilities

- Install the equipment safely and in accordance with all applicable local and national codes and regulations.
- Ensure that you fully understand the product and the installation procedures before beginning installation. Installation activities involve greater risk than normal system operation.
- Provide the customer with the information necessary to operate the system safely after installation.

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

4. PREPARING FOR INSTALLATION

Before beginning the installation procedure, verify that all required components have been received and that all required materials and accessories are present.

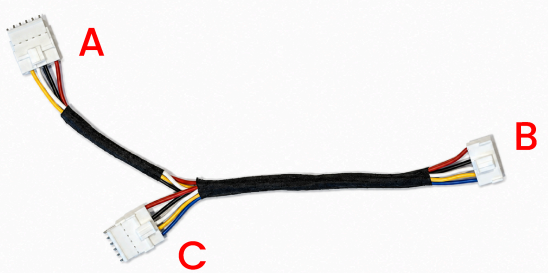
4.1 Shipping configuration

The Sidewall adapter (SWA) package contains the following components:

- Sidewall Adapter (SWA)
- Wiring Harness

Verify the wiring harness matches the image below and that the colored wires are connected in the order shown.

Figure 2. SWA wiring harness



The wiring harness is pre-connected to the sidewall adapter. The harness has three connectors, labeled **A, B,** and **C** in the figure above:

- Connector **B** is female.
- Connectors **A** and **C** are female with a removable pin-header adapter, so they appear male.

If the contents of the package do not match the description above, contact your INNOVA representative.

4.2 Inspecting the package

When the shipment is received, inspect it thoroughly before proceeding to installation:

1. Ensure that the contents match the order and shipping documents.
2. Inspect the sidewall adapter and wiring harness for any damage that may have occurred during shipping.
3. If the package or contents appear damaged:
    a. Photograph all damage and all sides of the component to support a damage claim.
    b. Clearly document the damage on the freight bill.
    c. Notify your INNOVA representative or distributor.

Report all damage within two weeks of delivery to be eligible for a claim.

4.3 Required tools and supplies

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.
- Screwdriver set (for hand-tightening components).
- Impact driver with assorted driver bits.
- Fastener tool.
- Approved louvers for the intake and exhaust vents (see Section 4.4)
- 2 sleeves and duct collars appropriate for the installation.
- PVC pipe for condensate drain that is long enough to reach the drainage location.

See the applicable installation guide listed in Section 4.5 for the AIO unit being installed, in the "Tools and Materials" section, for a complete list of required tools and supplies for installing the unit.

4.4 Louver requirements

The sidewall adapter requires louvers to be installed at the exterior openings of both the intake and exhaust vents. INNOVA must approve these louvers to ensure they meet the required specifications for free area and pressure drop.

The following louver models are approved for use with the sidewall adapters, as they have been tested to ensure compatibility and performance, and they comply with all applicable national and local codes. These louvers are available through your INNOVA distributor.

- **Sunvent:**
    - LLA/C-V, LLA/F-V, LLA/C-S, LLA/F-S
    - For all these models, order the version with the appropriate hole size for the sidewall adapter.
- **Thermaduct:**
    - For sidewall adapters with 6" vents: RLA7
    - For sidewall adapters with 8" vents: RLA8

If these louver solutions cannot be used, contact INNOVA to ensure the desired alternate louver solution meets the unit's requirements.

⚠ WARNING

Using unapproved louvers may cause fire, leaks, and/or unit failure, and will void the warranty on the AIO unit.

The installer is responsible for ensuring that any louvers installed for the sidewall adapter comply with all applicable national and local codes.

4.5 Site preparation

Before beginning installation of the sidewall adapter, make sure the installation site is appropriate for the installation of an AIO Wall Mounted unit, as detailed in the applicable installation guide listed below.

The only change from what is written in these guides is that when a Wall Mounted unit is installed on its own, it must be installed on an exterior wall, whereas when it is installed on a sidewall adapter, it is installed on an interior wall near the exterior wall, as detailed in Section 6.1.

To view the installation guide for the AIO Wall Mounted (Gen 1) unit, click this link:

AIO Wall Mounted Gen 1 Installation Manual (V 5.0)

To view the installation guide for the AIO Wall Mounted (Gen 2) unit, click this link:

AIO Wall Mounted (Gen 2) Installation Guide - IN...

To view the installation guide for the AIO Wall Mounted (Gen 3) unit, click this link:

AIO Wall Mounted (Gen 3) Installation Guide - IN...

- For Gen 1, the site requirements are in the "Preparation" section of the indicated guide.
- For Gens 2 and 3, the site requirements are in the "Site Preparation" section of the indicated guide.

5. ASSEMBLY OVERVIEW

The process of installing an AIO® Wall Mounted unit with a sidewall adapter (SWA) includes the following stages:

1. Prepare an opening for the SWA in the interior wall, 3" away from the exterior wall, and two holes in the exterior wall for the vent pipes. See Section 6.1 and Section 6.3.
2. Install the SWA into the wall opening. See Section 6.4.
3. Mount the AIO unit onto the SWA. See Section 7.
4. Open the AIO unit, connect the power and communication cables between the AIO unit and the SWA, then close the AIO unit. See Section 8 for Wall Mounted (Gen 1) units, and Section 9 for Wall Mounted (Gen 2+) units.

Figure 3 provides a conceptual illustration of the wall opening, vent pipes, SWA to be installed in the wall, and AIO unit to be mounted on the SWA.

Figure 3. Conceptual illustration of the installation procedure



- The figures throughout this document show a right-side SWA for illustrative purposes only.
- For a left-side SWA, the procedure is the same unless otherwise specified, but reverse all illustrated positions and dimensions.

- A **"left-side"** SWA means the airflow via the **exterior wall is to the left of the AIO unit**. Thus, the unit is mounted on the **right-hand interior wall** of the room as the installer faces the exterior wall.
- A **"right-side"** SWA means the airflow via the **exterior wall is to the right of the AIO unit**. Thus, the unit is mounted on the **left-hand interior wall** of the room as the installer faces the exterior wall.

Figure 4 shows the SWA installed in the interior wall opening.

Figure 4. SWA installed in the wall

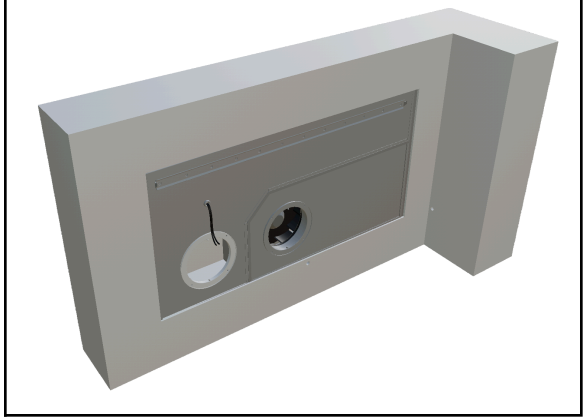
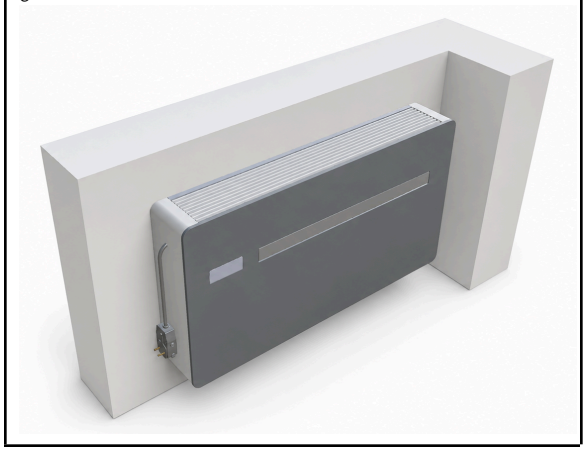


Figure 5 shows the AIO unit mounted on the SWA. Note that the SWA is not visible after this installation.

Figure 5. AIO unit mounted on the SWA



6. INSTALLING THE SIDEWALL ADAPTER IN THE WALL

The information in this section is the same for all configurations of sidewall adapters and AIO units, except that for left-side SWA's, the illustrations and diagrams must be reversed.

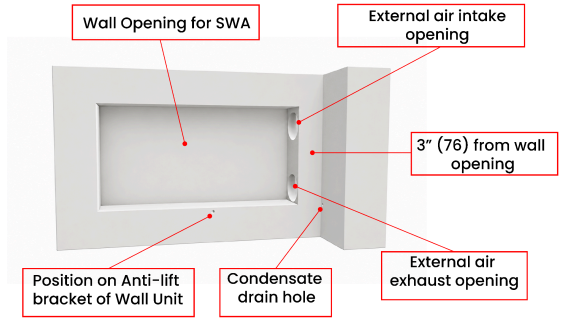
6.1 Preparing the wall openings

To install the SWA, make the following openings in the interior wall, perpendicular to the exterior wall and 3" (76 mm) away from it, as shown in Figure 6. The dimensions of the openings are shown in Table 2 in Section 6.3.

- Main wall opening for SWA
- Two external wall openings (for intake and exhaust)
- Small hole for anti-lift bracket of AIO unit
- Small hole for condensate drain*

***Note:** The condensate drain hole is only required if draining condensate directly outside of the building. If connecting to an installed in-wall drain, the drain can be anywhere below the unit.

Figure 6. Required wall openings for SWA



6.2 Clearance requirements

When deciding where to install the SWA, consider the AIO unit's clearance requirements. A summary of these requirements is provided here for convenience.

For a detailed explanation of the clearance requirements, refer to the "Clearances" (Gens 1 and 2) or "Minimum clearance requirements" (Gen 3) section in the applicable installation guide listed in Section 4.5.

- **Top:** A minimum of 3½" (89 mm) clearance is required between the AIO unit and any surface above it, including the ceiling or a shelf, but 8" (200 mm) is recommended.
- **Bottom:** A minimum of 3" (76 mm) clearance is required between the AIO unit and the floor.
- **Sides:** A minimum of 3" (76 mm) clearance is required on each side of the unit. This is slightly more than specified for the AIO unit alone, to enable servicing both the AIO unit and the SWA, if needed.

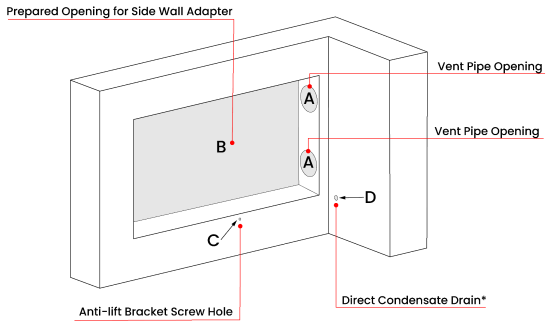
The clearance between the unit and the exterior wall with the airflow vents must be exactly 3" (76 mm).

- **Front:** A minimum of 30" (760 mm) of unobstructed space is required in front of the AIO unit to ensure proper airflow.
- **Exterior:** A minimum of 36" (914 mm) clearance is required in front of the exterior louvers on the outside of the building.

6.3 Wall preparation dimensions

The following wall openings are required to install the SWA. The dimensions of the openings are listed in Table 2.

Figure 7. Wall openings for SWA installation



A	Vent pipe opening
B	Prepared opening for sidewall adapter (SWA)
C	Anti-lift bracket screw hole (for Wall Mounted unit)
D	Direct condensate drain (for Wall Mounted unit; see *note above)

Table 2. Sidewall adapter wall opening dimensions

Hole	Description	SWA Vent Size	Dimension	Size
A	Vent pipe openings	6"	Diameter	6 5/16 in. (160 mm)
			Distance between centers	11 9/16 in. (293 mm)
		8"	Diameter	8 in. (200 mm)
			Distance between centers	11 ⅜ in. (289 mm)
B	Opening for SWA	All	Width	39 11/16 in. (1008.1 mm)
			Height	19 13/16 in. (502.5 mm)
		6"	Depth	6 9/16 in. (166.5 mm)
		8"	Depth	8 1/8 in. (206.5 mm)

6.4 Installing the sidewall adapter

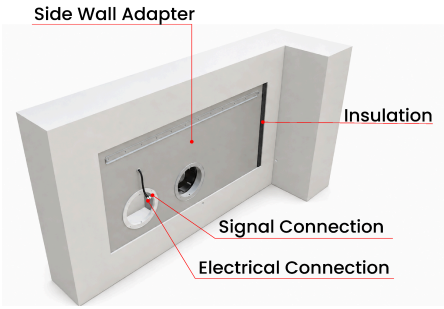
To install the sidewall adapter into the wall:

1. Complete the wall openings (see Section 6.1) with the required sleeves, duct collars, and louvers, in accordance with the specified dimensions.

> INNOVA must approve exterior louvers to ensure they comply with INNOVA's requirements. Refer to the louver requirements in Section 4.4.

2. Insert the sidewall adapter into the prepared wall opening as shown in Figure 8.
3. Align the adapter so that the foam insulation is seated neatly and evenly over the installed wall sleeves and duct collars, ensuring a continuous seal around the wall openings.
4. Secure the sidewall adapter to the wall structure using suitable anchor screws.
5. Fasteners may be installed into the vertical and horizontal structural support elements from either the inside or outside of the sidewall adapter, as appropriate for the installation.
6. Verify that the adapter is:
   - mounted securely,
   - flush with the outside wall,
   - correctly aligned.
7. Verify that the foam insulation is fully seated without gaps, folds, or obstruction around the wall openings.

Figure 8. Installing the sidewall adapter into the wall



7. INSTALLING THE AIO® WALL MOUNTED UNIT ON THE SIDEWALL ADAPTER

After the sidewall adapter has been installed in the wall opening, the AIO unit must be installed on the SWA.

1. **Mount the AIO unit onto the SWA.**
   Mount the AIO unit onto the mounting bracket of the sidewall adapter.

Figure 9. SWA installed in the wall with bracket



Figure 10. AIO unit mounted onto the SWA



2. **Complete the installation process.**
   Follow the procedures for securing the AIO Wall Mounted anti-lift bracket, condensate drain, and power supply described in the applicable installation guide listed in Section 4.5.

8. CONNECTING THE AIO® WALL MOUNTED UNIT (GEN 1) TO THE SIDEWALL ADAPTER

After the AIO unit has been securely mounted on the sidewall adapter, and the condensate drain and power supply have been set up, the unit must be connected to the SWA wiring.

To connect the AIO® Wall Mounted Standard unit (Gen 1) to the sidewall adapter (SWA):

1. Open the AIO unit.
2. Connect the wiring harness between the AIO unit and the SWA.
3. Close the AIO unit.

8.1 Opening the AIO unit (Gen 1)

To open the AIO Wall Mounted (Gen 1) unit:

1. **Disconnect the power supply.**
   Disconnect the AIO unit from the power supply and wait at least five minutes after it was last operated.
2. **Remove the grille and the return air filter.**
   Lift off the top grille from the unit. Then gently pull up on the plastic around the return air filter and carefully lift the filter out.

Figure 11. Lift off the top grille

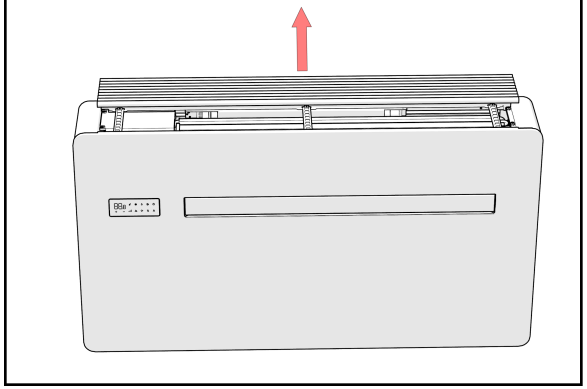
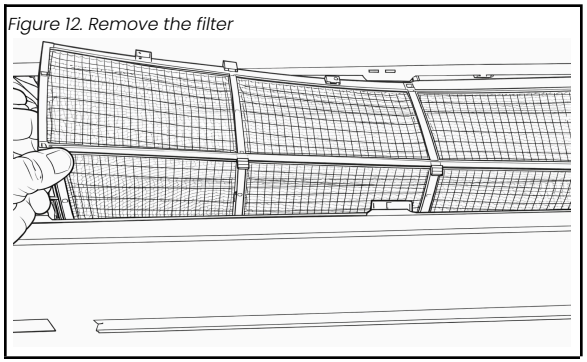


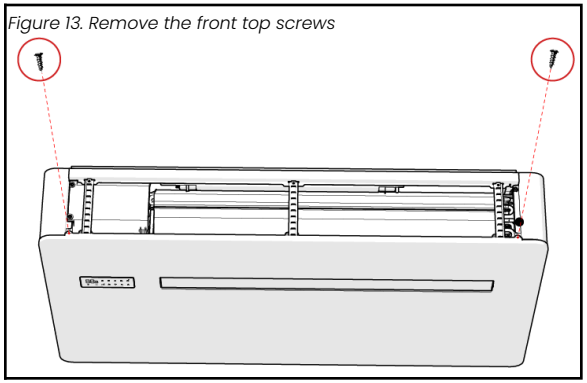
Figure 12. Remove the filter



3. **Remove the front panel.**
   Remove the two front screws on the top of the unit, and gently lift and pull the front decorative panel forward to remove it.

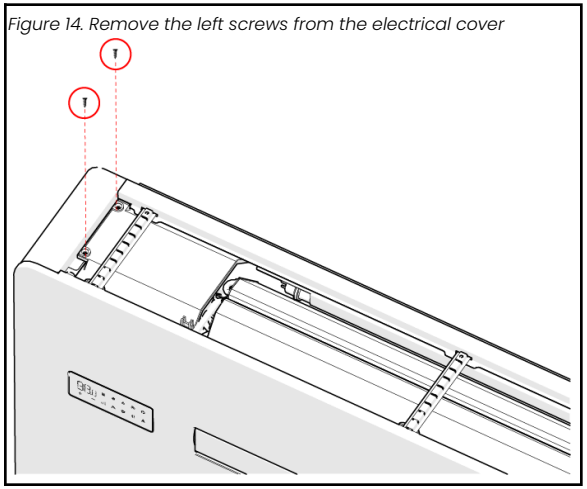
Keep the screws that are removed in each step separate.

Figure 13. Remove the front top screws



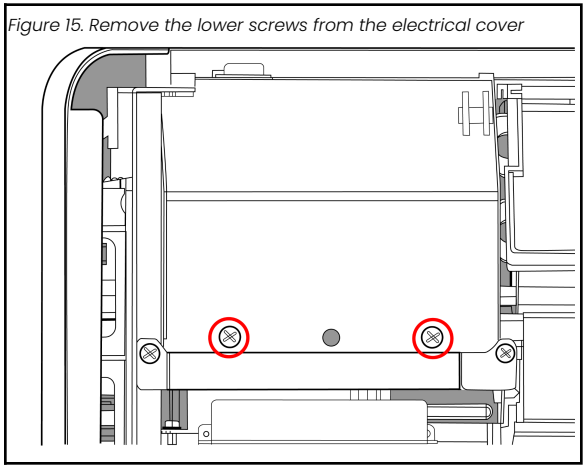
4. **Remove the electrical protective cover.**
   a. Remove the two screws on the top left that hold the black plastic electrical protective cover in place on the frame.

Figure 14. Remove the left screws from the electrical cover



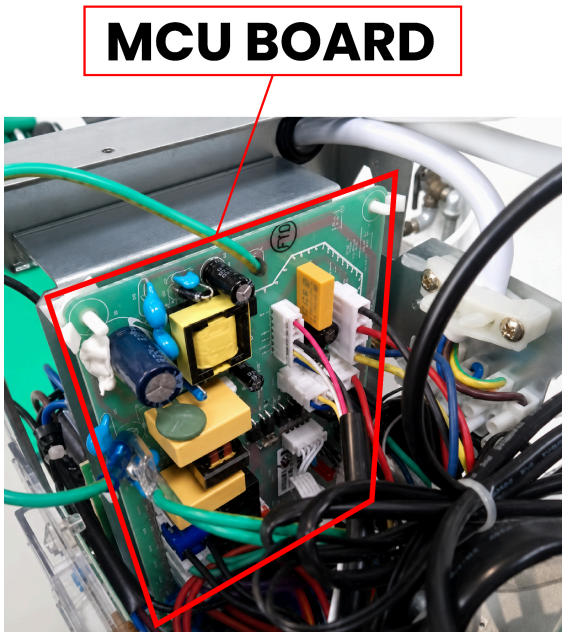
   b. Remove the two lower screws that secure the black plastic electrical protective cover to the onboard touch controller cover and to the unit.

Figure 15. Remove the lower screws from the electrical cover



c. Remove the electrical protective cover to expose the MCU (microcontroller unit) board.

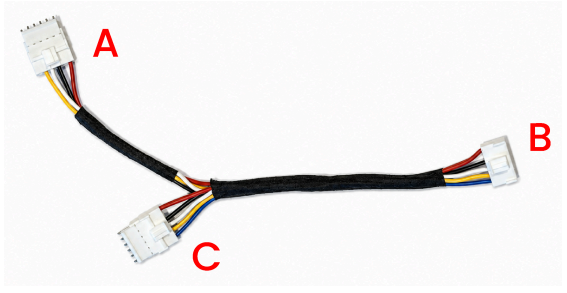
Figure 16. AIO unit MCU board



8.2 Connecting the SWA wiring to the AIO unit

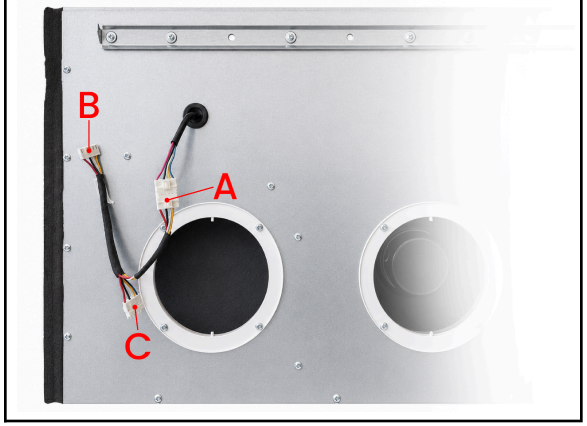
The SWA comes with a wiring harness. In this section, the connectors on the SWA wiring harness are called **A, B,** and **C,** as shown:

Figure 17. SWA wiring harness



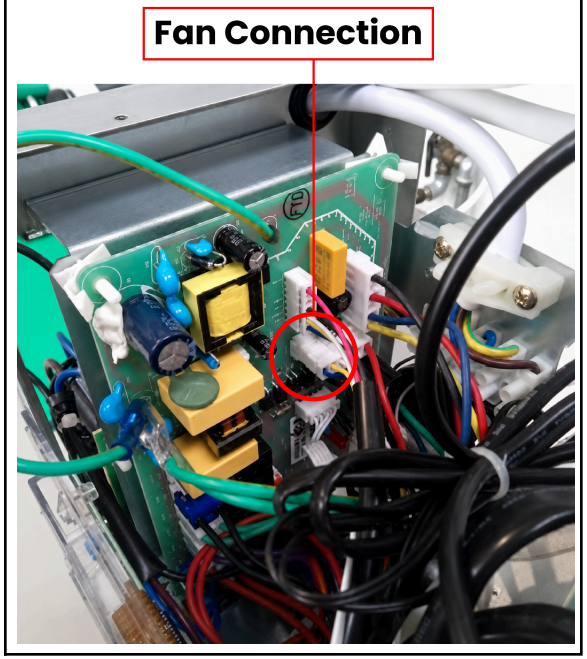
The SWA comes with the wiring harness preconnected at connector A.

Figure 18. SWA with wiring harness preconnected



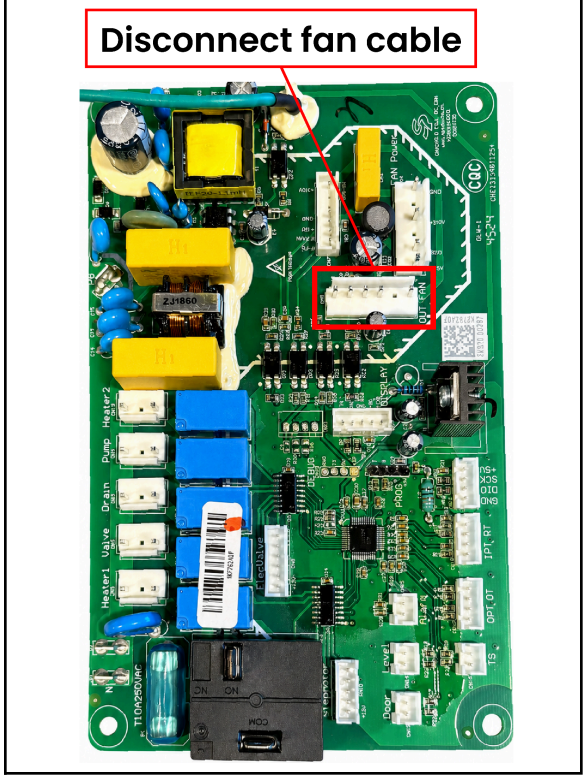
1. **Disconnect the fan cable from the MCU board.**
   a. Locate the 'OUT FAN' port on the AIO unit's MCU board where the compressor fan cable is connected.

Figure 19. Gen 1 AIO unit fan cable connection



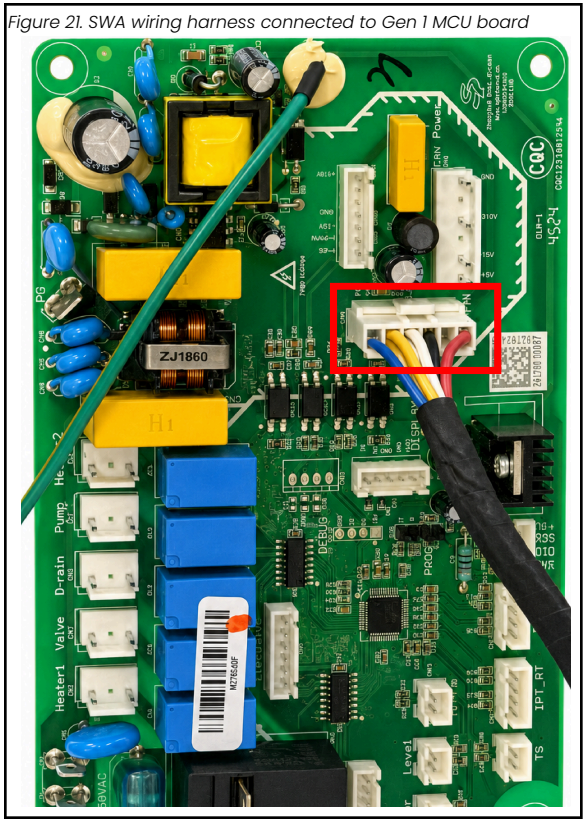
b. Disconnect the fan cable connector from the 'OUT FAN' port.

Figure 20. Gen 1 AIO unit MCU board with fan cable disconnected



2. **Connect the wiring harness to the MCU board.**
   Connect connector **B** of the SWA wiring harness to the 'OUT FAN' port on the AIO unit's MCU board, from which you removed the fan cable connector.

Figure 21. SWA wiring harness connected to Gen 1 MCU board



3. **Connect the fan cable to the wiring harness.**
   Connect connector **C** of the SWA wiring harness to the fan cable connector that you removed from the MCU board.

8.3 Closing the AIO unit (Gen 1)

To close the AIO Wall Mounted (Gen 1) unit:

1. **Position the protective cover in place.**
   Position the black electrical protective cover in place to cover the electrical connections while the unit is being tested.

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

2. **Test the onboard touch controller.**
   a. Reconnect the power supply to the AIO unit and power it on.
   b. Test the onboard touch controller to verify that it changes the temperature setting and operating modes as selected. Refer to the AIO Wall Mounted (Gen 1) User Guide for more information.
      - If the touch controller works as expected, power off the unit and wait at least five minutes for the capacitors inside the unit to discharge.
      - If the test fails, repeat the applicable steps in Sections 8.1 and 8.2 to open the unit and check if all connections are secure. Then repeat the test. If the test still fails, contact an INNOVA-trained service technician.
3. **Close the AIO unit.**
   a. Secure the black electrical protective cover to the plastic cover of the controller and to the unit using the two screws removed in Section 8.1, Step 4b.
   b. Secure the left side panel to the electrical protective cover and to the unit frame using the two screws removed in Section 8.1, Step 4a.
   c. Reinstall the front panel and secure it to the unit using the two screws removed in Section 8.1, Step 3.
   d. Reinstall the return air filter and the grille into the unit (see Section 8.1, Step 2).
4. **Reconnect the power supply to the AIO unit.**

9. CONNECTING THE AIO® WALL MOUNTED UNIT (GEN 2+) TO THE SIDEWALL ADAPTER

To connect the AIO® Wall Mounted Standard unit (Gen 2+) to the sidewall adapter (SWA):

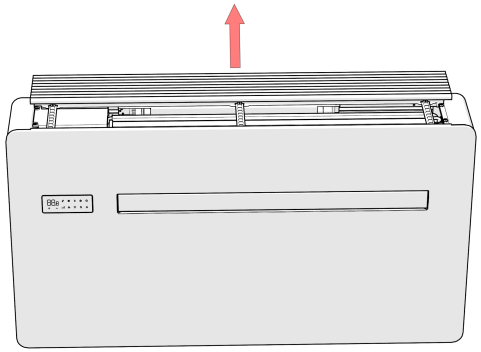
1. Open the AIO unit.
2. Connect the wiring harness between the AIO unit and the SWA.
3. Close the AIO unit.

9.1 Opening the AIO unit (Gen 2+)

To open the AIO™ Wall Mounted (Gen 2+) unit:

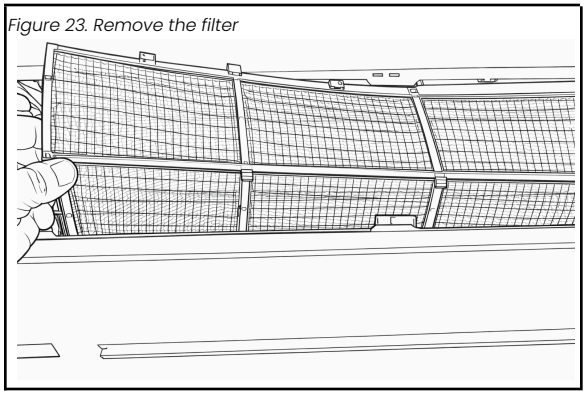
1. **Disconnect the power supply.**
   Disconnect the AIO unit from the power supply and wait at least five minutes after it was last operated.
2. **Remove the grille and the return air filter.**
   a. Lift off the top grille from the unit.

Figure 22. Lift off the top grille



b. Gently pull up on the plastic around the return air filter, then carefully lift the filter out.

Figure 23. Remove the filter

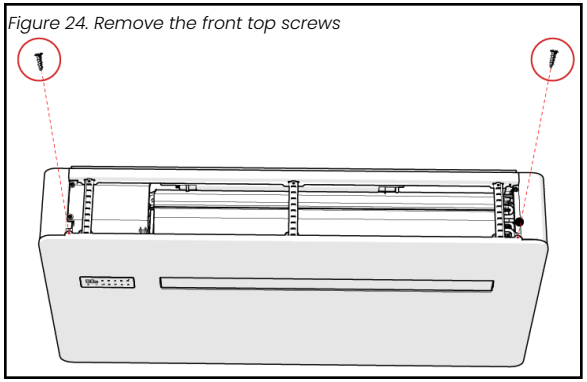


3. Remove the front panel.

a. Remove the two front screws on the top of the unit.

Keep the screws that are removed in each step separate.

Figure 24. Remove the front top screws



b. Carefully pull the front cover slightly forward, and disconnect the onboard touch controller from the unit.

Figure 25. Pull the front cover forward

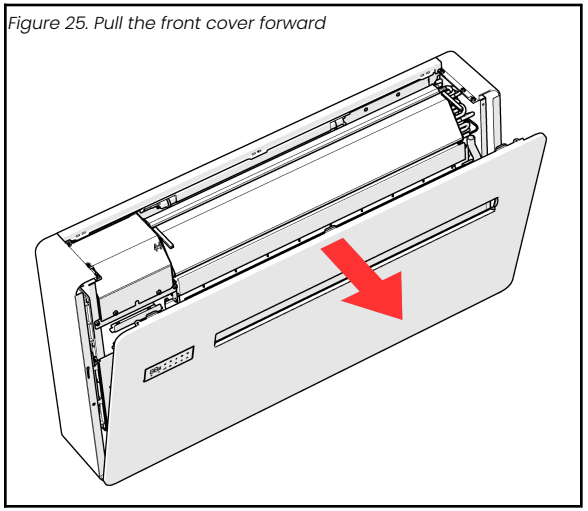
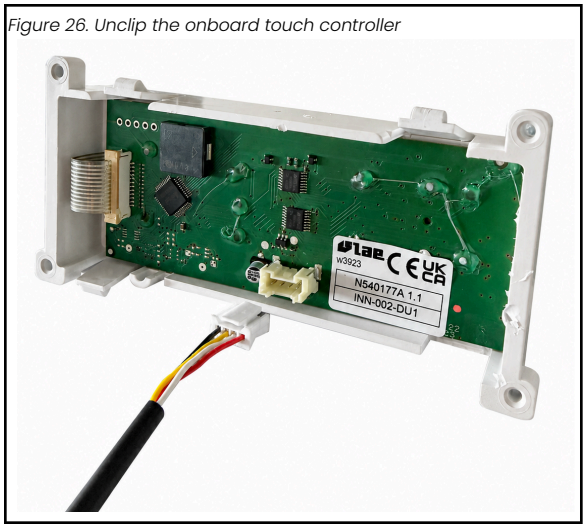


Figure 26. Unclip the onboard touch controller



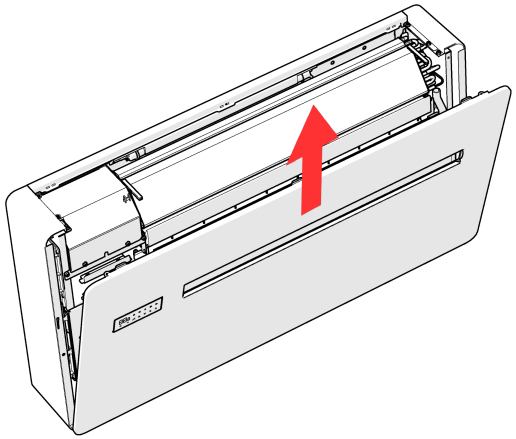
⚠CAUTION

When removing the front cover panel of the AIO® Wall Mounted (Gen 3) unit:

- The Onboard Touch Controller is clipped to the back of the front cover panel, and a wire harness connector is soldered directly on the back of the controller.
- Do not pull the panel abruptly, because this can tear the connector from the Onboard Touch Controller, causing damage.
- Carefully disconnect the wire harness connector before fully removing the front cover panel to prevent damage to the connector or the Onboard Touch Controller.

c. Carefully remove the front decorative panel.

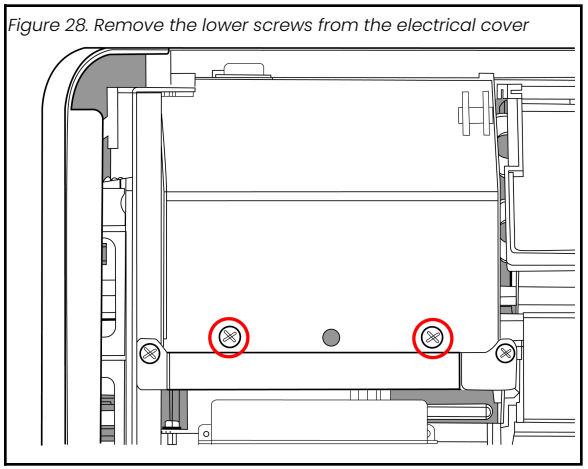
Figure 27. Remove the front panel



4. Remove the electrical protective cover.

a. Remove the two screws on the top left that hold the black plastic electrical protective cover in place on the frame.

Figure 28. Remove the lower screws from the electrical cover



b. Remove the black plastic electrical protective cover to expose the MCU (microcontroller unit) board as shown.

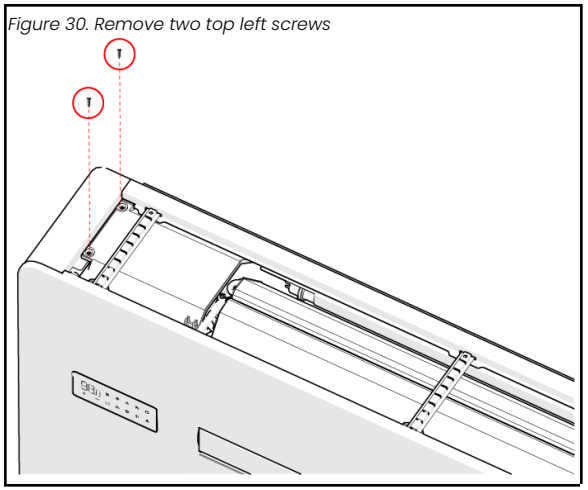
Figure 29. Wall Mounted (Gen 2+) electrical connections



5. Remove the left side panel.

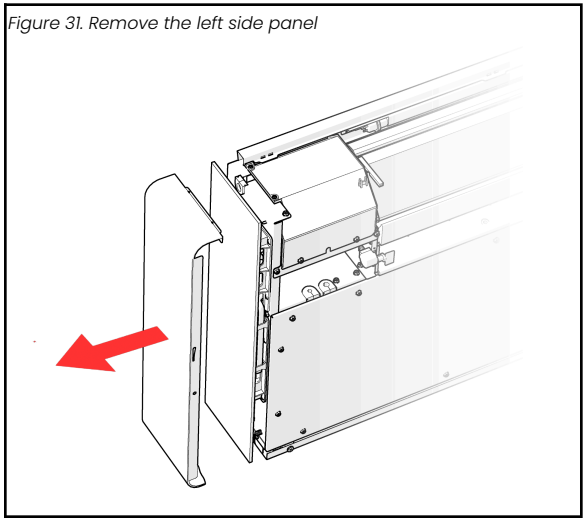
a. Unscrew the two screws at the top left of the unit that hold the left side panel in place.

Figure 30. Remove two top left screws



b. Remove the left side decorative panel.

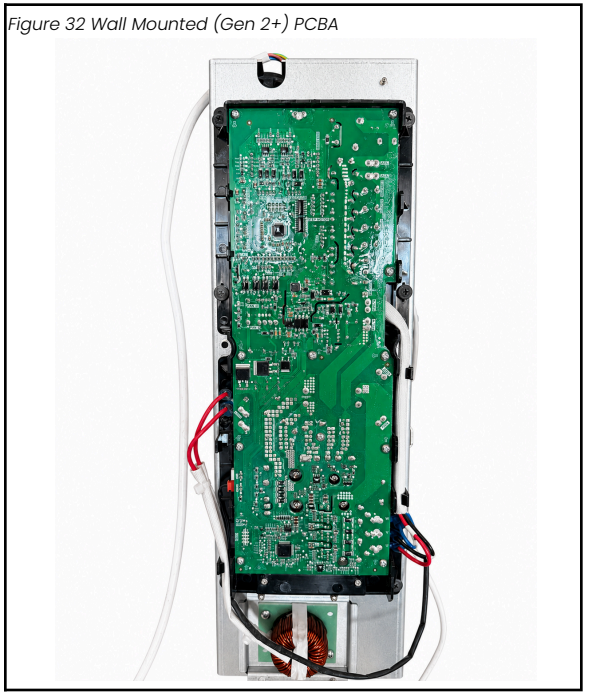
Figure 31. Remove the left side panel



6. Access the MCU board of the AIO unit.

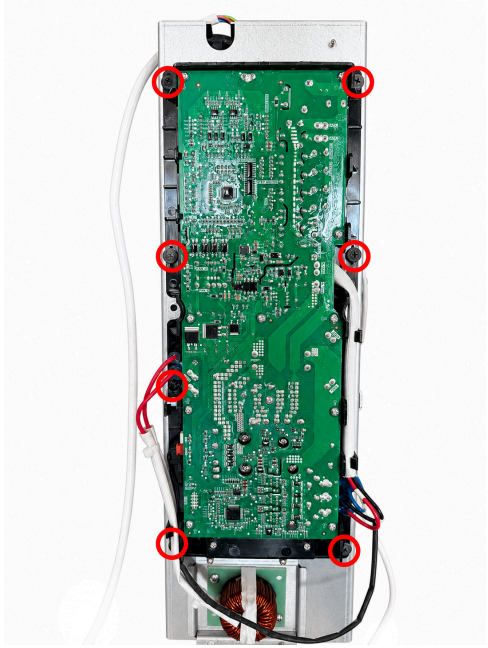
a. With the left panel removed, you can see the back of the unit's integrated MCU board assembly.

Figure 32 Wall Mounted (Gen 2+) PCBA



b. Partially unscrew the control board from the frame and pull the board forward to access the MCU board components on the other side. It is not necessary to remove the board from the frame.

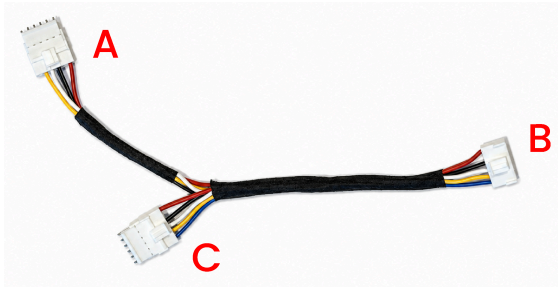
Figure 33. Unscrew and detach the integrated MCU board



9.2 Connecting the SWA wiring to the AIO unit

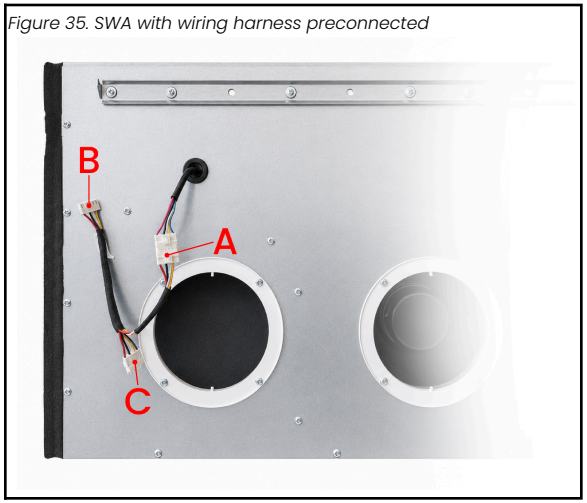
The SWA comes with a wiring harness. In this section, the connectors on the SWA wiring harness are called **A, B,** and **C,** as shown:

Figure 34. SWA wiring harness



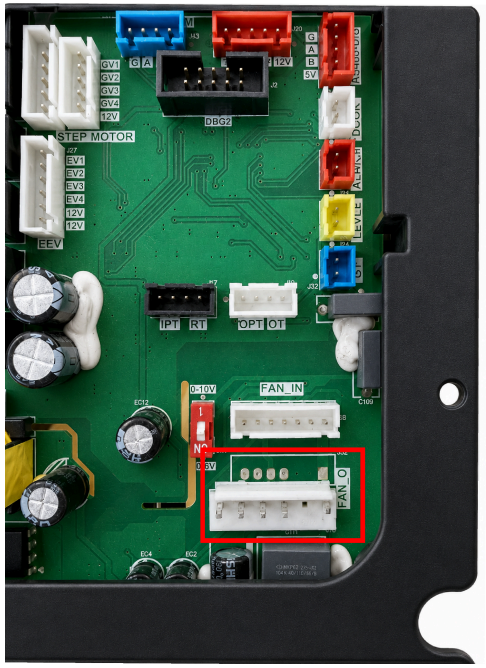
The SWA comes with the wiring harness preconnected at connector **A**.

Figure 35. SWA with wiring harness preconnected



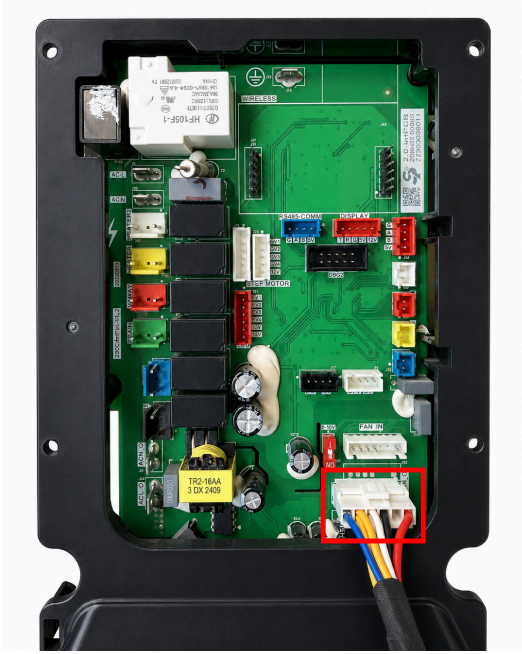
1. **Disconnect the fan cable from the MCU board.** Locate the 'FAN_O' port on the AIO unit's MCU board where the compressor fan cable is connected, and disconnect the fan cable connector from the port.

Figure 36. Gen 2+ unit MCU board with fan cable disconnected



2. **Connect the wiring harness to the MCU board.**
   Connect connector **B** of the SWA wiring harness to the 'FAN_O' port on the AIO unit's MCU board, from which you removed the fan cable connector.

Figure 37. SWA wiring harness connected to Gen 2+ MCU board



3. **Connect the fan cable to the wiring harness.**
   Connect connector **C** of the SWA wiring harness to the fan cable connector that you removed from the MCU board.

9.3 Closing the AIO unit (Gen 2+)

To close the AIO Wall Mounted (Gen 2+) unit:

1. **Replace the integrated MCU board.**
   Carefully put the integrated MCU board back in place, and tighten all screws.
2. **Position the left panel and protective cover in place.**
   a. Position the left-side decorative panel in place to cover the main control board while the unit is being tested.
   b. Position the black electrical protective cover in place to cover the electrical connections while the unit is being tested.

> Do not secure the panel and cover with screws until after the unit has been tested.

3. **Test the onboard touch controller.**
   a. Reconnect the power supply to the AIO unit and power it on.
   b. Test the onboard touch controller to verify that it changes the temperature setting and operating modes as selected. Refer to the AIO™ Wall Mounted (Gen 2/3) User Guide for more information.
      - If the touch controller works as expected, power off the unit and wait at least five minutes for the capacitors inside the unit to discharge.
      - If the test fails, repeat the applicable steps in Sections 9.1 and 9.2 to open the unit and check if all connections are secure. Then repeat the test. If the test still fails, contact an INNOVA-trained service technician.
4. **Close the AIO unit.**
   a. Secure the left-side panel to the unit frame using the two screws removed in Section 9.1, Step 5a.
   b. Secure the black electrical protective cover to the unit using the two screws removed in Section 9.1, Step 4a.
   c. Position the front panel in place and carefully reconnect the onboard touch controller (see Section 9.1, Steps 3c and 3b).
   d. Secure the front panel to the unit using the two screws removed in Section 9.1, Step 3a.
   e. Reinstall the return air filter and the grille into the unit (see Section 9.1, Step 2).
5. **Reconnect the power supply to the AIO unit.**

APPENDIX A: SWA DIMENSIONS

A.1 Dimensions of right-side SWA for Wall Mounted, 6" vents

These diagrams refer to all of the right sidewall adapters with 6" vents, which include the following SKUs:

- L00771 (right side, 6" vents, WM Gen 1, 230 V)
- L00773 (right side, 6" vents, WM Gen 2+, 115/230 V)
- L01062 (right side, 6" vents, WM Gen 1, 115 V)

> The only difference between the Gen 1 and Gen 2+ models is in the internal fan, and neither the fan nor the voltage affects the dimensions.

Figure 38. Right SWA, 6" vents - for reference

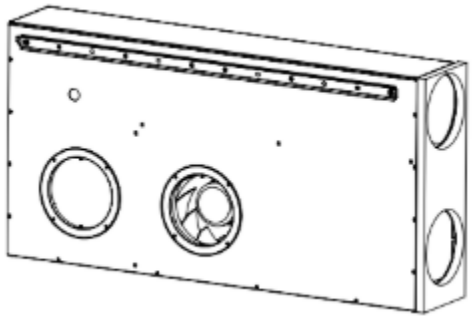


Figure 39. Right SWA, 6" vents dimensions - Front view

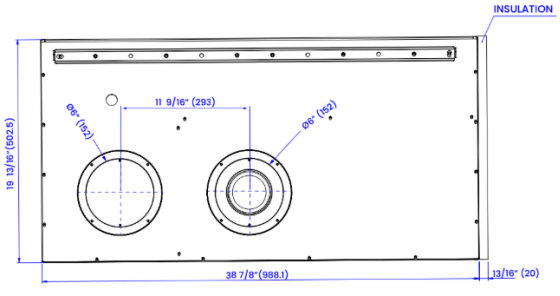
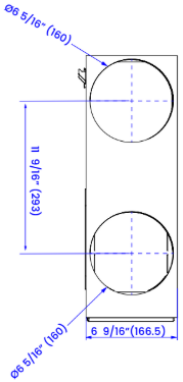


Figure 40. Right SWA, 6” vents dimensions - Side view



To view the dimensions of this SWA configuration as a high-resolution PDF file, click the link below.

AIO Right Sidewall Adapter for Wall Mounted, 6" V...

A.2 Dimensions of left-side SWA for Wall Mounted, 6” vents

These diagrams refer to all of the left sidewall adapters with 6” vents, which include the following SKUs:

- L00772 (left side, 6” vents, WM Gen 1, 230 V)
- L00774 (left side, 6” vents, WM Gen 2+, 115/230 V)
- L01069 (left side, 6” vents, WM Gen 1, 115 V)

The only difference between the Gen 1 and Gen 2+ models is in the internal fan, and neither the fan nor the voltage affects the dimensions.

Figure 41. Left SWA, 6” vents - for reference

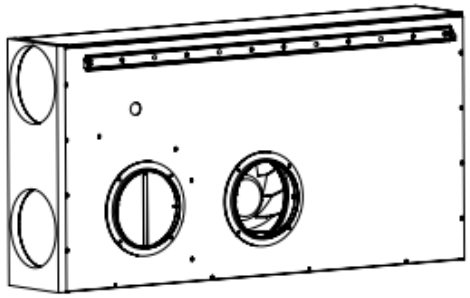


Figure 42. Left SWA, 6” vents dimensions - Front view

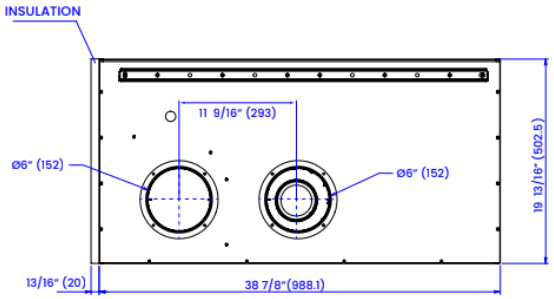
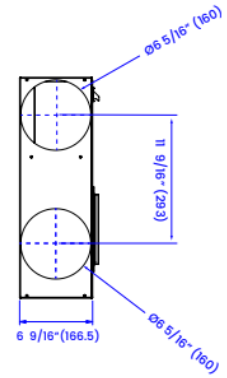


Figure 43. Left SWA, 6” vents dimensions - Side view



To view the dimensions of this SWA configuration as a high-resolution PDF file, click the link below:

AIO Left Sidewall Adapter for Wall Mounted, 6" Ve...

A.3 Dimensions of right-side SWA for Wall Mounted, 8” vents

These diagrams are for the L01074 sidewall adapter (right side, 8” vents, WM Gen 2+, 115/230 V).

Figure 44. Right SWA, 8” vents - for reference

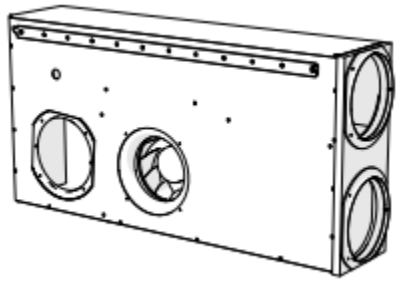


Figure 45. Right SWA, 8” vents dimensions - Front view

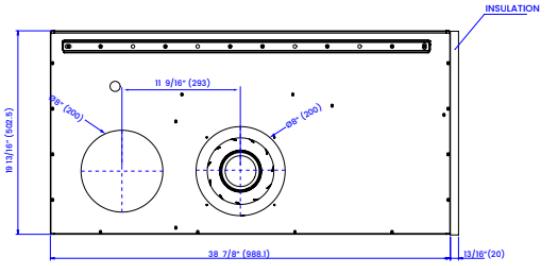
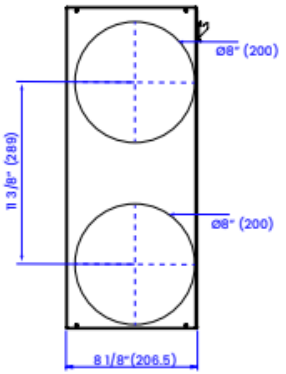


Figure 46. Right SWA, 8” vents dimensions - Side view



To view the dimensions of this SWA configuration as a high-resolution PDF file, click the link below:

AIO Right Sidewall Adapter for Wall Mounted, 8" V...

A.4 Dimensions of left-side SWA for Wall Mounted, 8” vents

These diagrams are for the L01075 sidewall adapter (left side, 8” vents, WM Gen 2+, 115/230 V).

Figure 47. Left SWA, 8” vents - for reference

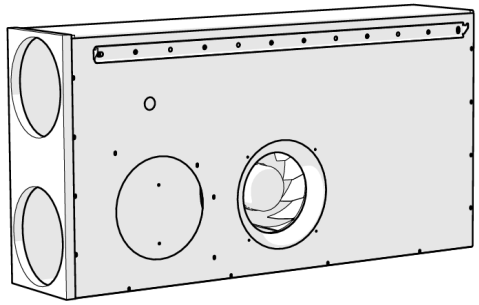


Figure 48. Left SWA, 8” vents dimensions - Front view

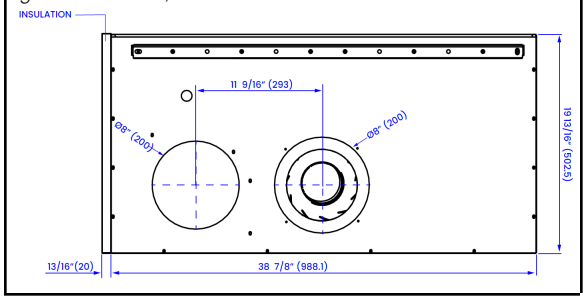
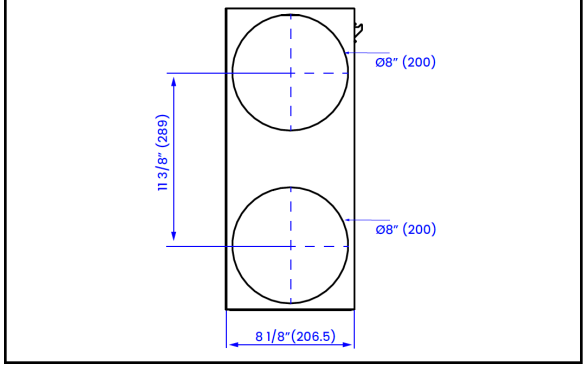


Figure 49. Left SWA, 8” vents dimensions - Side view



To view the dimensions of this SWA configuration as a high-resolution PDF file, click the link below:

AIO Left Sidewall Adapter for Wall Mounted, 8" Ve...

APPENDIX B: WIRING DIAGRAMS

The following diagrams show the wiring connections between the sidewall adapter and the AIO unit, using the SWA wiring harness.

Separate diagrams are provided for AIO Wall Mounted Gen 1 and Gen 2+ units, since they have different MCU boards and fan cable connection locations. For all other SWA model variations (i.e., vent hole size, voltage, and side orientation), the wiring is the same. The right sidewall adapter is shown for reference only.

Figure 50. Wiring diagram for SWA to AIO Wall Mounted Gen 1

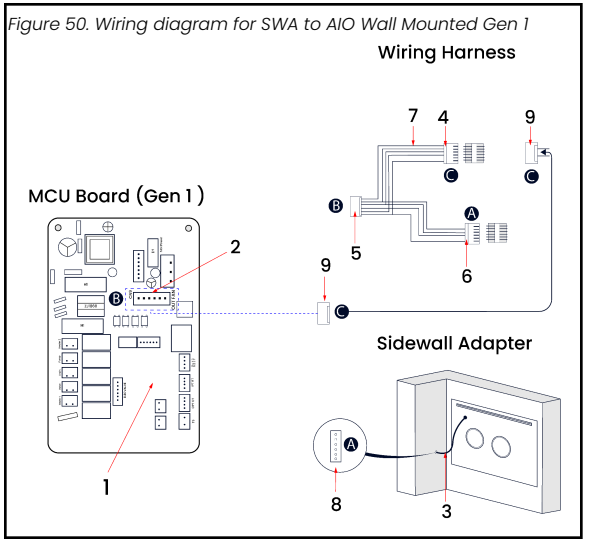
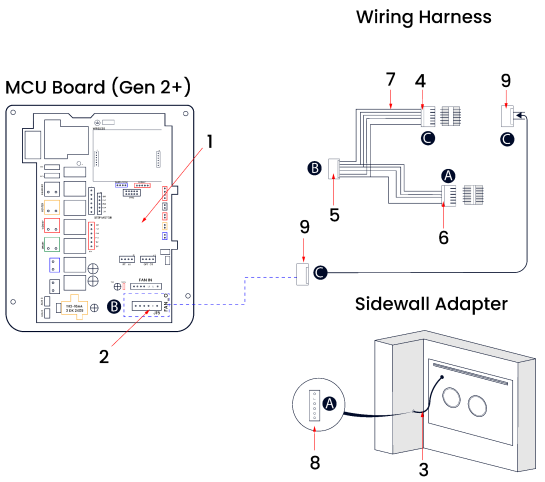


Figure 51. Wiring diagram for SWA to AIO Wall Mounted Gen 2+



Legend (for both wiring diagrams)			
1	Integrated MCU board (component side)		
2	Fan output male connector on unit MCU board	**6**	4-wire female connector on wiring harness with male pin-header adapter
3	SWA connection cable	**7**	Wiring harness
4	5-wire female connector on wiring harness with male pin-header adapter	**8**	5-pin female connector on sidewall adapter
5	5-pin female connector on wiring harness	**9**	5-pin female fan cable connector
A	Connection between sidewall adapter and wiring harness	**B**	Connection between wiring harness and MCU board fan output port
C	Connection between fan cable and wiring harness		

To view the wiring diagrams as a high-resolution PDF file, click the links below:

- **Wiring diagram of a sidewall adapter for AIO Wall Mounted (Gen 1):**
  Wiring Diagram - SWA for AIO WM Gen 1.pdf
- **Wiring diagram of a sidewall adapter for AIO Wall Mounted (Gen 2+):**
  Wiring Diagram - SWA for AIO WM Gen 2+.pdf

APPENDIX C: REVISION HISTORY

Rev	Date	Revised By	Changes
A	2026-09-24	Leah Kuber	Create a single document for all AIO Wall Mounted standard units, with corrected information.

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

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AIO® Sidewall Adapter (SWA) for Wall Mounted Units
Installation Guide