

AIO™ GWN Gateway for AIO™ Heat Pumps

Installation Guide



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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.

REVISION HISTORY

Rev	Date
A	2026-03-22
B	2026-03-30
C	2026-08-03

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CONTENTS

1. ABOUT THIS GUIDE.....	4
1.1 Specific language.....	4
1.2 Safety notices, icons, and symbols.....	4
2. QUICK GUIDE – INSTALLING THE GWN GATEWAY IN AIO™ UNITS.....	5
3. GWN GATEWAY OVERVIEW.....	5
3.1 AIO™ unit compatibility.....	5
3.2 GWN gateway specifications.....	5
4. SAFETY GUIDELINES – READ BEFORE INSTALLING.....	6
4.1 Fire/explosion hazards.....	6
4.2 Electrical hazards.....	6
4.3 Moving parts hazards.....	6
4.4 General safety guidelines.....	7
4.5 Installer responsibilities.....	7
5. PREPARING FOR INSTALLATION.....	7
5.1 Shipping configuration.....	7
5.2 Inspecting the package.....	7
5.3 Required tools and supplies.....	7
6. DIP SWITCH CONFIGURATION.....	8
7. INSTALLING THE GWN GATEWAY IN THE AIO™ WALL MOUNTED (GEN 1) UNIT.....	8
7.1 Opening the unit.....	8
7.2 Attaching the GWN gateway to the unit.....	9
7.3 Connecting the gateway cables.....	10
7.4 Closing the unit.....	12
8. INSTALLING THE GWN GATEWAY IN THE AIO™ WALL MOUNTED (GEN 2) UNIT.....	13
8.1 Opening the unit.....	13
8.2 Attaching the GWN gateway to the unit.....	13
8.3 Connecting the gateway cables.....	14
8.4 Closing the unit.....	15
9. INSTALLING THE GWN GATEWAY IN THE AIO™ WALL MOUNTED (GEN 3) UNIT.....	16
9.1 Opening the unit.....	16
9.2 Attaching the GWN gateway to the unit.....	16
9.3 Connecting the gateway cables.....	17
9.4 Closing the unit.....	18
10. INSTALLING THE GWN GATEWAY IN THE AIO™ CEILING DUCTED / CEILING SUSPENDED (WITH ERV OPTION) UNIT.....	18
10.1 Opening the unit.....	18
10.2 Attaching the GWN gateway to the unit.....	19
10.3 Connecting the gateway cables.....	20
10.4 Closing the unit.....	22
11. INSTALLING THE GWN GATEWAY IN THE AIO™ CEILING SUSPENDED (WITHOUT ERV OPTION) UNIT.....	23
11.1 Opening the unit.....	23
11.2 Attaching the GWN gateway to the unit.....	24
11.3 Connecting the gateway cables.....	25
11.4 Closing the unit.....	27
12. INSTALLING THE GWN GATEWAY IN THE AIO™ VERTICAL STACK UNIT.....	27
12.1 Opening the unit.....	27
12.2 Attaching the GWN gateway to the unit.....	27
12.3 Connecting the gateway cables.....	28
12.4 Closing the unit.....	30
13. INSTALLING THE GWN GATEWAY IN THE AIO™ VERTICAL STACK XL UNIT.....	31
13.1 Opening the unit.....	31
13.2 Attaching the GWN gateway to the unit.....	31
13.3 Connecting the gateway cables.....	32
13.4 Closing the unit.....	35
14. WARRANTY TERMS AND CONDITIONS.....	35
14.1 Exclusions and limitations.....	35

1. ABOUT THIS GUIDE

This guide outlines the required procedures for safely installing the GWN gateway in an AIO™ heat pump 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.

Reference to the product

Any reference to “the unit” or “the AIO™ unit” is meant to refer to the specific AIO™ heat pump unit described in that section of the document.

Unit orientation

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

Role definitions

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

- **User:** A nonexpert who can safely operate the unit and perform basic diagnostics and maintenance.
- **Installer:** An INNOVA-trained and certified HVAC installation technician responsible for the correct installation of the unit as indicated in the installation guide and in accordance with all local and national codes.
- **Service technician:** A trained and qualified HVAC 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. They may include 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 are used in conjunction with the warning panels.



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Annotation icons

Annotations are provided to highlight important information. Read the instructions stated in the annotations.



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2. QUICK GUIDE – INSTALLING THE GWN GATEWAY IN AIO™ UNITS

WARNING

IMPORTANT! Before beginning any installation, read the [Safety Guidelines in Section 4](#).

This Quick Guide provides links to the sections in this document that describe how to install a GWN gateway control board in each type of AIO™ heat pump unit.

[To install in an AIO™ Wall Mounted \(Standard/Pro\) unit \(Gen 1\)](#)

[To install in an AIO™ Wall Mounted \(Standard/Pro\) unit \(Gen 2\)](#)

[To install in an AIO™ Wall Mounted \(Standard/Pro\) unit \(Gen 3\)](#)

[To install in an AIO™ Ceiling Ducted unit \(with or without ERV\)](#)

[To install in an AIO™ Ceiling Suspended unit \(with ERV option\)](#)

[To install in an AIO™ Ceiling Suspended unit \(without ERV option\)](#)

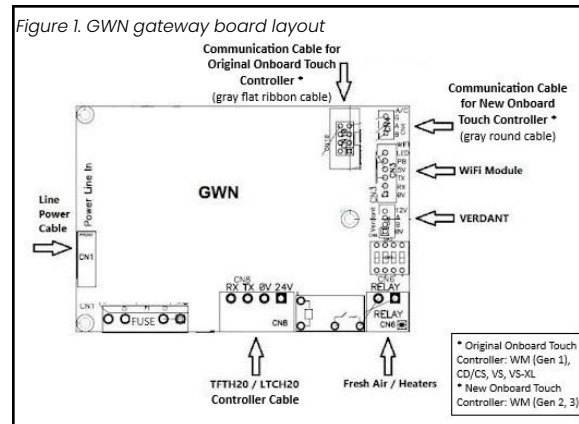
[To install in an AIO™ Vertical Stack unit](#)

[To install in an AIO™ Vertical Stack XL unit](#)

3. GWN GATEWAY OVERVIEW

The GWN gateway provides an interface between AIO™ units and wall thermostats, including INNOVA controllers and the Verdant thermostat.

Figure 1 shows the GWN gateway board layout.



The GWN gateway can interface with:

- **Thermostats/Controllers:** Includes the INNOVA AIO™ Basic Touch Controller (LTCH20), the INNOVA Advanced Touch Controller (TFTH20), and the Verdant thermostat.
- **Wi-Fi module:** Enables control using a dedicated application for smartphones, tablets, and computers.
- **External mode relay:** Operation and integration with external electric heaters (including baseboard heaters) and ERV for fresh air.

The GWN enables connecting INNOVA air conditioning units with the Verdant Building Automation System (BAS) for seamless integration and control. For details on integrating a GWN gateway with a Verdant thermostat, refer to the [GWN Gateway to Verdant Integration and Installation Guide](#).

3.1 AIO™ unit compatibility

The GWN gateway can be used with the following AIO™ units:

- AIO™ Wall Mounted Standard / Pro
- AIO™ Ceiling Ducted (with and without ERV)
- AIO™ Ceiling Suspended (with and without ERV option)
- AIO™ Vertical Stack (Gen 3 only)
- AIO™ Vertical Stack XL



- All references to the AIO™ Wall Mounted unit refer to both the Wall Mounted Standard and the Wall Mounted Pro units.
- The GWN gateway cannot be used with Gen 1 or 2 of the Vertical Stack unit. See [Section 12](#).

3.2 GWN gateway

The following are the GWN gateway:

- DIP switches for the thermostat and controller.
- Relay Rating: 10A/250VAC.
- LTCH20 and TFTH20: four-screw terminals.
- Verdant thermostat: four-pin connector.
- Operating temperature: -20°C to 70°C.
- Storage temperature: -20°C to 90% relative humidity.
- Power supply: 120VAC (nominal), 50/60Hz.
- Power consumption: 10W.
- Fuse: 2 amps.
- Dimensions: 48mm x 48mm x 12mm.



The GWN gateway can be used with the following AIO™ units:

4. SAFETY GUIDELINES – READ BEFORE INSTALLING

This guide details the steps required for the safe installation of a GWN gateway in an AIO™ unit. By following these instructions, the risk of damage to the equipment can be significantly reduced.

Read the entire installation guide before installing the gateway. 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.

4.1 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.

4.2 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 labels attached to the equipment.
- Before installation, maintenance, or servicing, disconnect power to the entire system. Verify that power to the entire system is down, including any remote disconnects, peripherals, third-party devices, and devices operating on the unit's network.
- Follow all OSHA-compliant Lockout/Tagout (LOTO) procedures.

WARNING

- All electrical connections, wiring, and grounding must be done by a qualified electrician and must comply with the National Electrical Code (NEC/NFPA-70) as well as 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. To avoid electrical shock or serious injury, before beginning any installation or servicing, be sure to:
 - Discharge all motor start-run capacitors.
 - 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.

4.3 Moving parts

- Do not open guards, or covers, specifically below to test.
- Ensure power is disconnected before accessing motors, and start autom

- Keep hands away from fan. Contact with fan can cause injury.
- Do not remove covers, guard

4.4 General safety guidelines

WARNING

- Do not modify or tamper with the gateway. Unauthorized alterations may compromise safety, create hazardous conditions, and void the warranty.
- 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 unit.

4.5 Installer responsibilities

- Install the unit 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.

5. 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.

5.1 Shipping configuration

The GWN gateway is shipped in a single package containing the following:

- GWN gateway board
- Two double-sided adhesive foam strips
- Three white plastic spacer (stand-up) clips
- Alcohol pads

The GWN gateway may be ordered with or without cables. If the configuration with cables was ordered, the package should also contain:

- Flat ribbon (gray) communication cable (for use with Wall Mounted Gen 1 units and all Vertical Stack and Ceiling Ducted/Suspended units)
- Round (gray) communication cable (for use with Wall Mounted Gen 2 and Gen 3 units)
- Black power cable (for use with all units)

5.2 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 entire gateway board and any accessories 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.

5.3 Required tools and supplies

- #2 Phillips-head screwdriver
- Mini (1/8" [3.2 mm]) flathead screwdriver

6. DIP SWITCHES

The GWN gateway is shipped in the AIO operation mode.



We recommend switching the AIO to the GWN operation mode after installation.

Figure 2. GWN DIP switch configuration



1. DIP Switch #1

DIP switch #1 is used to select the GWN operation mode.

- **ON** = Old units (Gen 1 and Gen 2) in original operation mode (Wall Mounted Gen 1, Vertical Stack XL, and Ceiling Ducted/Suspended units)
- **OFF** = New units (Gen 2 and Gen 3) in the new operation mode (Wall Mounted Gen 2 and Gen 3 units)

2. DIP Switch #2

DIP switch #2 is used to select the GWN operation mode.

- **ON** = Vertical Stack XL units
- **OFF** = INNOVA units (Wall Mounted Gen 2 and Gen 3 units)

3. DIP Switches #3 and #4

DIP switches #3 and #4 are not used.

7. INSTALLING THE GWN GATEWAY IN THE AIO™ WALL MOUNTED (GEN 1) UNIT

To install the GWN gateway in an AIO™ Wall Mounted (Gen 1) unit:

1. [Open the AIO™ unit.](#)
2. [Attach the gateway to the unit.](#)
3. [Connect the power and communication cables between the gateway and the unit.](#)
4. [Close the AIO™ unit.](#)

7.1 Opening the unit

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

1. **Disconnect the power supply.**
Disconnect the unit from the power supply and wait at least five minutes after it was last operated.
2. **Remove the return air filter and grille.**
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 to remove it.

Figure 3. Lift off the top grille

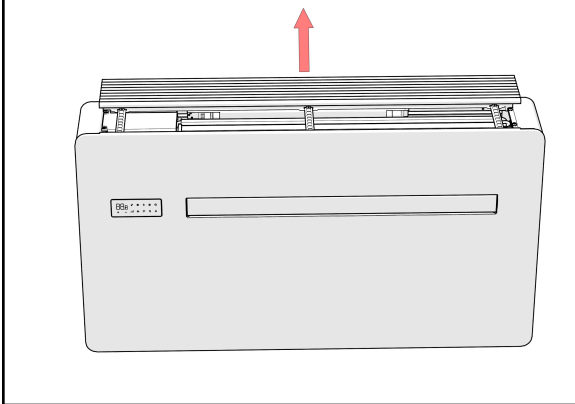
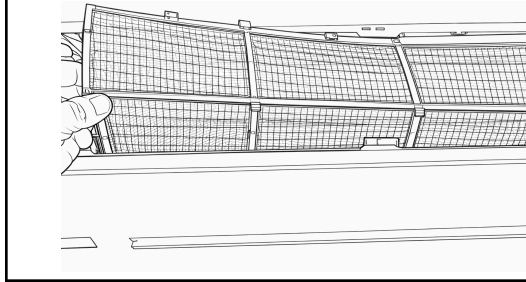


Figure 4. Remove the filter



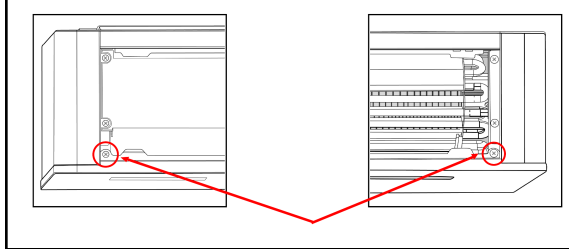
3. Remove the front panel.

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



Keep the screws that are removed in each step separate.

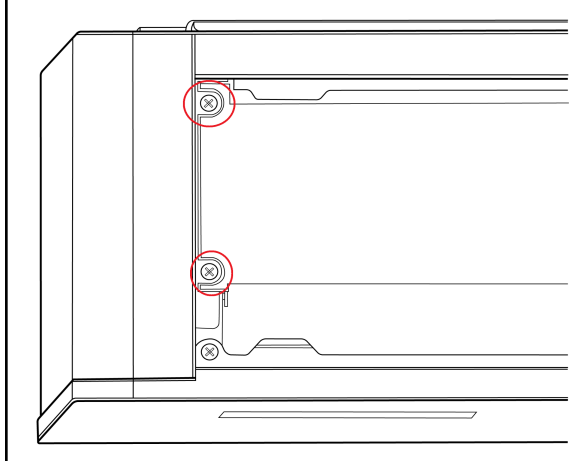
Figure 5. Remove the front top screws



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 6. 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, and remove the protective cover.

Figure 7. Remove the electrical protective cover

Figure 8. Inside of the electrical protective cover



7.2 Attaching the GWN gateway to the unit

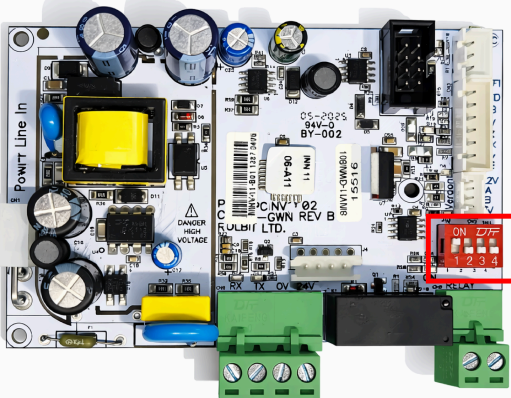
⚠ CAUTION

Handle the control board and all electronic components with care to avoid damage.

To attach the GWN gateway to the AIO™ Wall Mounted (Gen 1) unit:

1. Set the DIP switches on the gateway.

Figure 9. GWN DIP switches



Set the DIP switches on the gateway as shown in the following table. For more explanation of the DIP switch settings, see [Section 6](#).

DIP #1	DIP #2	DIP #3	DIP #4
HVAC Type	Verdant	N/A	N/A
ON	See Section 6	OFF	OFF

2. Mount the gateway board to the unit.

- Clean the mounting location on the underside of the black plastic electrical protective cover with an alcohol pad to ensure proper adhesion. The mounting location is shown below.

- Remove the backing from one side of the two double-sided adhesive foam strips and attach the strips to the back of the gateway board.



The foam in the adhesive strips provides insulation to prevent short-circuits.

- Remove the backing from the other side of the adhesive strips. Mount the gateway board to the underside of the electrical protective cover, placing it one inch (25.4 mm) from the right side, as shown. Press firmly to ensure the gateway is securely attached.

⚠ CAUTION

Make sure there is no direct contact between the gateway board and the metal panel.

Figure 10. Mount the gateway board



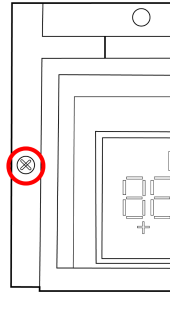
7.3 Connecting

To connect the power supply between the GWN gateway and the AIO™ Wall Mounted (Gen 1) unit:

1. Access the power supply

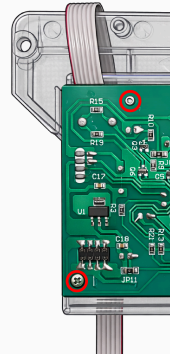
- Remove the top cover of the unit.

Figure 11. Remove the top cover



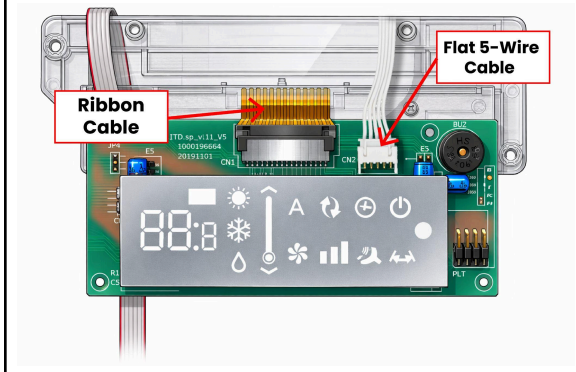
- Remove the top cover of the unit.

Figure 12. Remove the top cover



- c. Carefully open the controller housing and remove the controller circuit board from the housing.
- d. Gently remove the white, flat, 5-wire cable connector from the controller circuit board.

Figure 13. Remove the controller from its housing



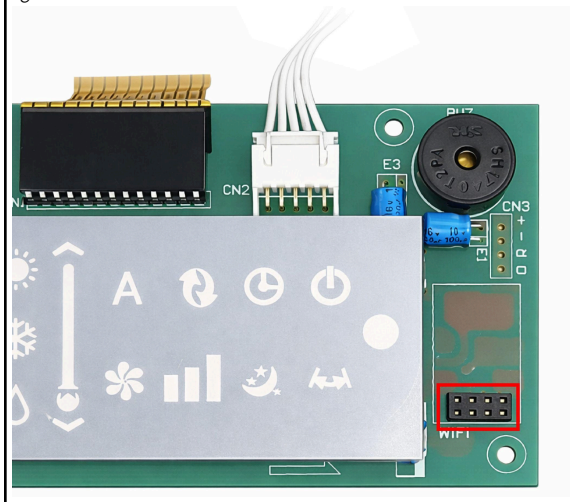
⚠ CAUTION

The ribbon cable connecting the touchscreen controller to the housing is fragile and must be handled with extreme care to avoid damage.

2. Connect the communication cable to the unit.

- a. Locate the black, eight-hole Wi-Fi socket on the right side of the onboard touch controller circuit board.

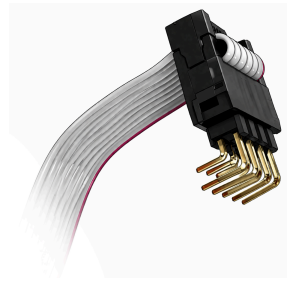
Figure 14. Wi-Fi socket on the controller board



If there is a Wi-Fi chip in the Wi-Fi socket, remove this chip to enable installing the communication cable. This Wi-Fi chip is not used with the GWN gateway. To enable Wi-Fi communication, refer to the [AIO™ Wi-Fi Module GWN-WIFI and Smart Life App Installation and User Guide](#).

- b. On the gray flat ribbon communication cable, find the end with an eight-pin right-angle pin header in the black connector.

Figure 15. Communication cable connector with right-angle pin header



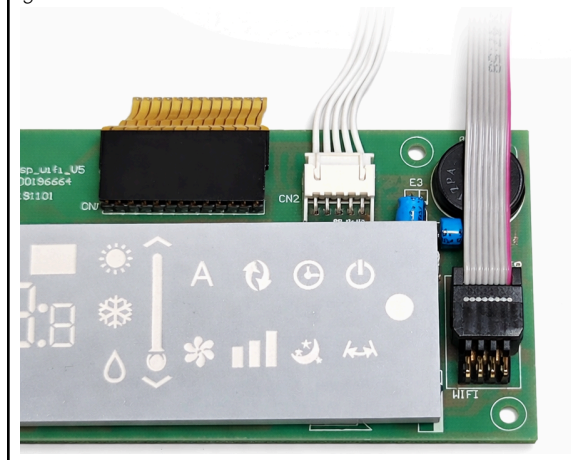
- c. Connect the cable to the Wi-Fi socket as follows:



Ensure that the communication cable is inserted with the red stripe on the cable facing away from the display.

- If the Wi-Fi socket is empty:
 - i. Insert the eight pins on the cable connector securely into the Wi-Fi socket as shown.

Figure 16. Connect the communication cable to the unit



- If there is already a right-angle pin header in the Wi-Fi socket:
 - i. Remove the right-angle pin header from the cable connector.

Figure 17. Remove the pin header from the connector

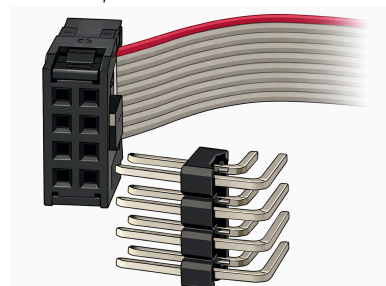


Figure 18. Connect the



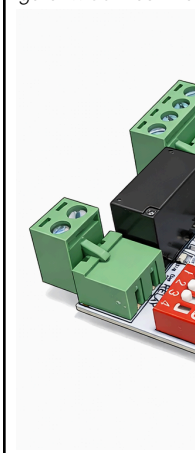
3. Reattach the

- a. Gently reattach the controller circuit board to the housing, following step 1d above.
- b. Carefully reattach the ribbon cable to the housing, following step 1b above.
- c. Reattach the controller circuit board to the housing, following step 1b above.
- d. Reattach the controller circuit board to the unit, following step 1a above.

4. Connect the communication gateway.

Connect the communication gateway (communication connector) to the communication gateway.

Figure 19. Connect the



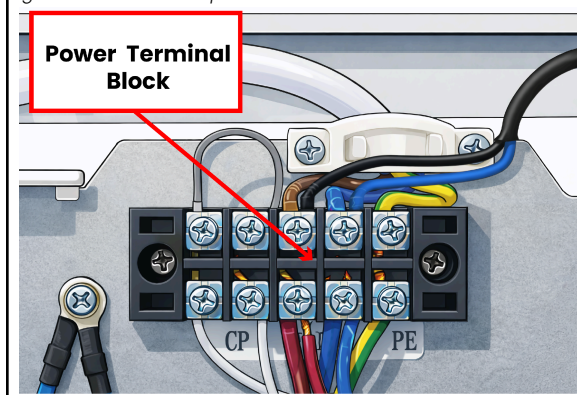
5. Connect the p



The GWN gateway uses a “Universal Input” power supply that works with any line voltage.

Strip the three-pronged connector from the end of the black power cable, and hardwire the power cable to the power supply terminal block (CONNI) that is located on the back left side of the electrical compartment of the unit.

Figure 20. Hardwire the power cable to the unit



The wiring has the following configuration:

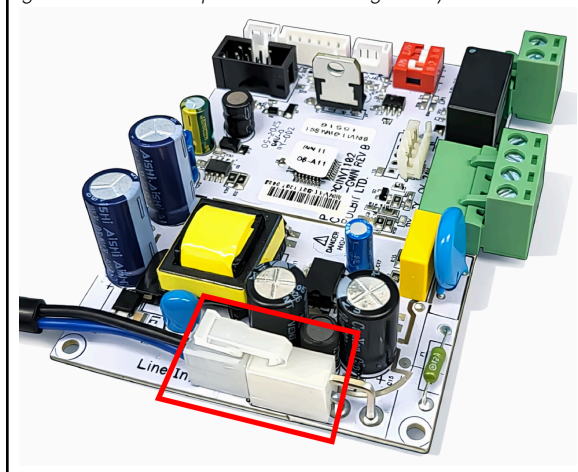
- Black is Live
- Blue is Neutral.

Make sure that the wires are connected as specified — black (live on gateway) to brown (live on unit) and blue to blue — and that they are securely fastened.

6. Connect the power cable to the gateway.

Insert the two-pronged connector on the other end of the black power cable into the “Power Line In” port (CNI) on the gateway board.

Figure 21. Connect the power cable to the gateway



CAUTION

Ensure that all wire insulation on the cables is intact and that there are no exposed conductive parts that could cause short circuits or other electrical issues.

7.4 Closing the unit

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

1. Position the electrical cover in place.

Put 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.

- Reconnect the power supply to the unit and power it on.
- Test the onboard touch controller to verify that it changes the temperature setting and modes of operation 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 7.1 through 7.3 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 unit.

- Secure the black electrical protective cover to the plastic cover of the controller and to the unit using the two screws removed in Section 7.1, Step 4b.
- Replace the left side panel and secure it to the frame of the unit using the two screws removed in Section 7.1, Step 4a.
- Replace the front panel and secure it to the unit using the two screws removed in Section 7.1, Step 3.
- Reinstall the return air filter and the grille into the unit (see Section 7.1, Step 2).

4. Reconnect the power supply to the unit.

8. INSTALLING IN THE AIO™ (GEN 2) UNIT

To install the GWN (Gen 2) unit:

- [Open the AIO™](#)
- [Attach the ga](#)
- [Connect the p](#)
[between the c](#)
- [Close the AIO™](#)

8.1 Opening t

To open the AIO™

- 1. Disconnect th**
Disconnect th
wait at least fi
operated.
- 2. Remove the r**
Lift off the top
up on the plas
carefully lift th

Figure 22. Lift off the top

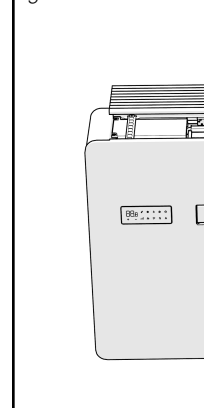
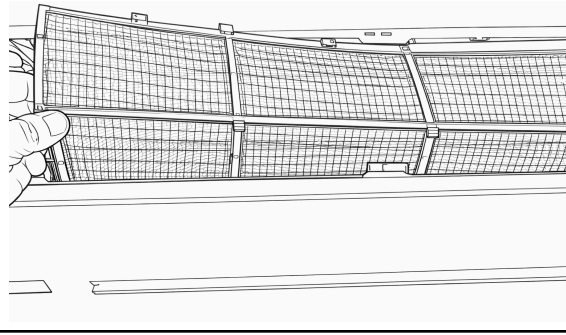


Figure 23. Remove the filter



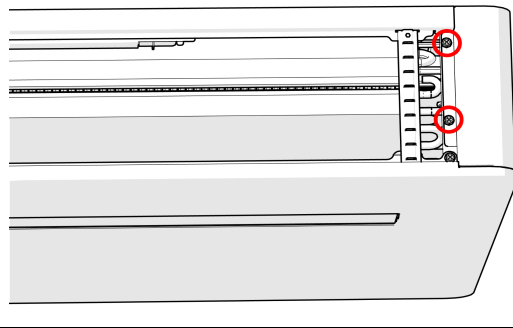
3. Remove the right side panel.

Remove the two screws from the right side decorative panel of the unit. Then lift and remove the right side panel.



Keep the screws that are removed in each step separate.

Figure 24. Remove the right side panel



8.2 Attaching the GWN gateway to the unit

⚠ CAUTION

Handle the control board and all electronic components with care to avoid damage.

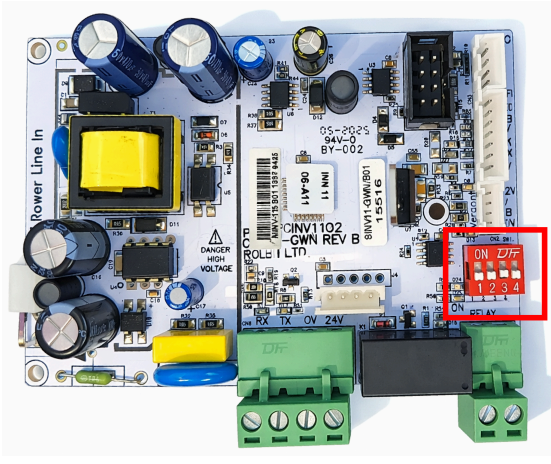
To attach the GWN gateway to the AIO™ Wall Mounted (Gen 2) unit:

1. Set the DIP switches on the gateway.

Set the DIP switches on the gateway as shown in the following table. For more explanation of the DIP switch settings, see [Section 6](#).

DIP #1	DIP #2	DIP #3	DIP #4
HVAC Type	Verdant	N/A	N/A
OFF	See Section 6	OFF	OFF

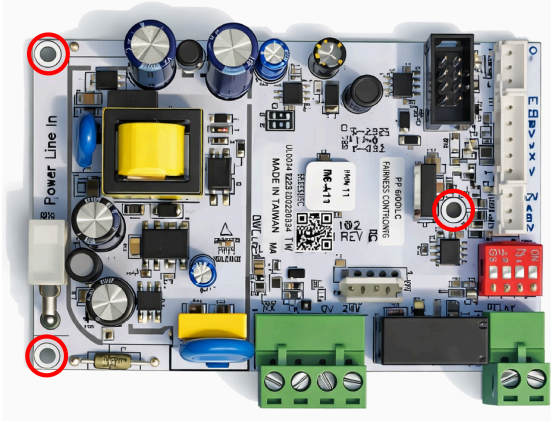
Figure 25. GWN DIP switches



2. Mount the gateway board to the unit.

- If there are mounting holes on the inner metal panel:
 - Insert the three plastic spacer (stand-up) clips (provided with the gateway) into the two top holes and the middle hole on the panel.
 - Mount the gateway board on top of the clips, using the holes in the gateway.

Figure 26. Holes for spacer clips



It is recommended to use spacer clips if there are holes, since the spacers raise the gateway board ¼" (6.4 mm) above the metal chassis, preventing contact and ensuring safe clearance.

- If there are no mounting holes on the panel:
 - Clean the mounting location on the inside of the right side metal panel with an alcohol pad to ensure proper adhesion. The mounting location is shown below.
 - Remove the backing from one side of the two double-sided adhesive foam strips and attach the strips to the back of the gateway board.



The foam insulation

c. Remove the top of the gateway metal gate



Make sure there is no gateway board

Figure 27. Mount the gateway



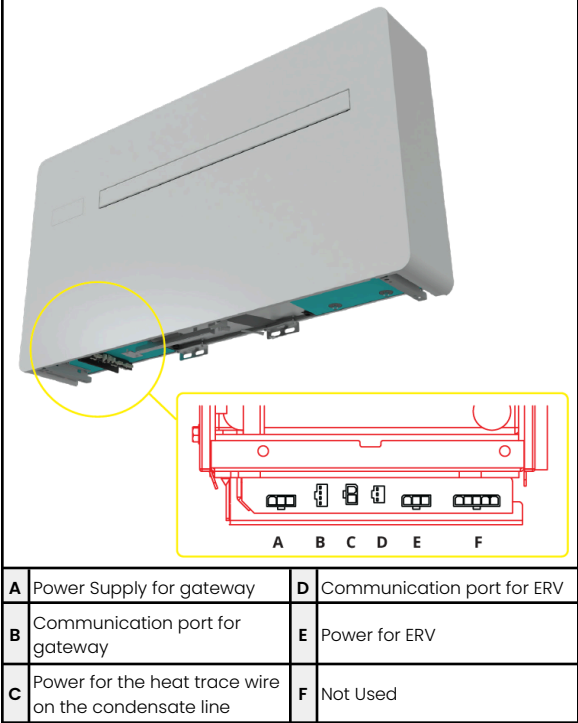
8.3 Connecting the gateway

To connect the power between the GWN Gateway and the AIO™ Wall Mounted (Gen 2) unit:

1. Open the Access panel.

The accessory panel is located at the bottom left of the unit. Remove the screw from the panel and slide the

Figure 28. Wall Mounted Gen 2 accessory connection block



2. **Connect the communication cable to the unit.**
Connect the end of the gray communication cable (with the black connector) to the dedicated gateway communication port on the accessory connection block (labeled B in Figure 28). Ensure the connector is inserted completely and securely.
3. **Connect the power cable to the unit.**
Connect the three-pronged end of the black power cable to the dedicated gateway power supply port on the accessory connection block (labeled A in Figure 28). Ensure the connector is inserted completely and securely.

Figure 29. Power and communication cable connections

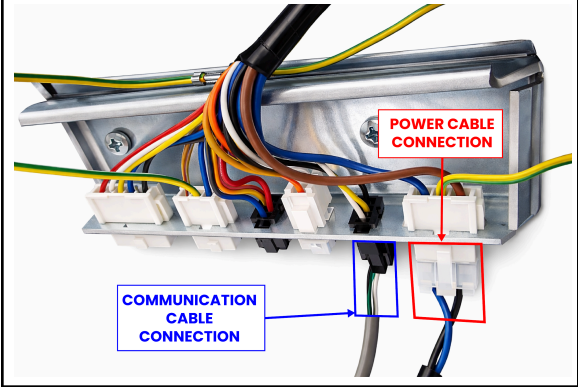
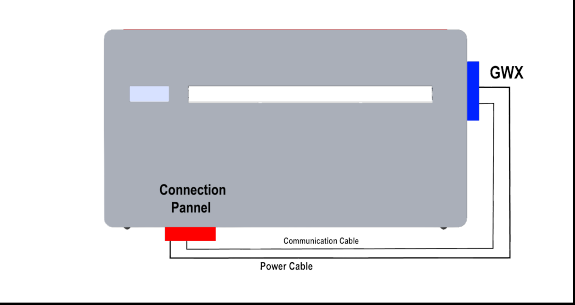


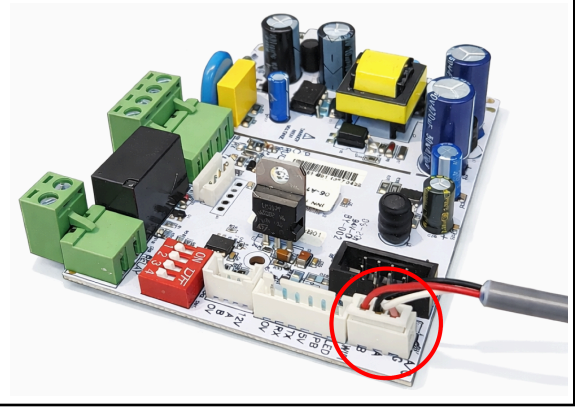
Figure 30. Connected cables from the gateway to the unit



The GWN gateway uses a “Universal Input” power supply that works with any line voltage.

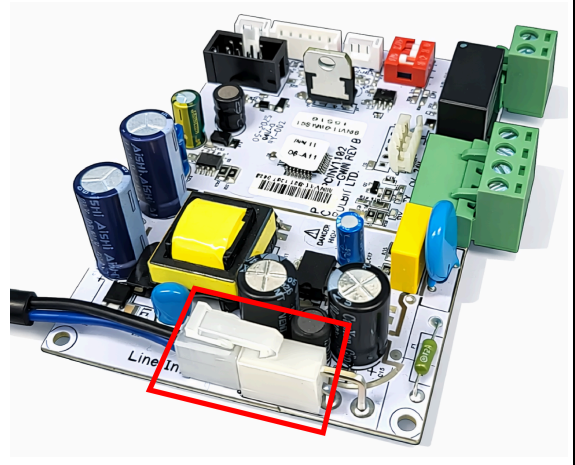
4. **Connect the communication cable to the gateway.**
Insert the white connector on the round gray communication cable into the “A/C” port on the gateway.

Figure 31. Connect the communication cable



5. **Connect the power cable to the gateway.**
Insert the free, two-pronged end of the black power cable into the “Power Line In” port on the gateway board.

Figure 32. Connect the power cable



CAUTION

Ensure that all wires are intact and that there are no loose parts that could cause electrical issues.

8.4 Closing the unit

To close the AIO™

1. Test the on-board

- a. Reconnect the power to the unit.
- b. Test the unit to ensure that it changes modes of operation. [AIO™ Wall Mounted Gen 2](#) more info

- If the power is not on, the unit will not start.
- If the unit is not in the correct mode, it will not start.

2. Close the accessory side panel.

- a. Replace the cover and secure it on the left side of the unit.
- b. Replace the frame and secure it on the right side of the unit.
- c. Reinstall the unit into the wall.

3. Reconnect the unit

9. INSTALLING THE GWN GATEWAY IN THE AIO™ WALL MOUNTED (GEN 3) UNIT

To install the GWN gateway in an AIO™ Wall Mounted (Gen 3) unit:

1. [Open the AIO™ unit.](#)
2. [Attach the gateway to the unit.](#)
3. [Connect the power and communication cables between the gateway and the unit.](#)
4. [Close the AIO™ unit.](#)

9.1 Opening the unit

To open the AIO™ Wall Mounted (Gen 3) unit:

1. **Disconnect the power supply.**
Disconnect the unit from the power supply and wait at least five minutes after it was last operated.
2. **Remove the return air filter and grille.**
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 to remove it.

Figure 33. Lift off the top grille

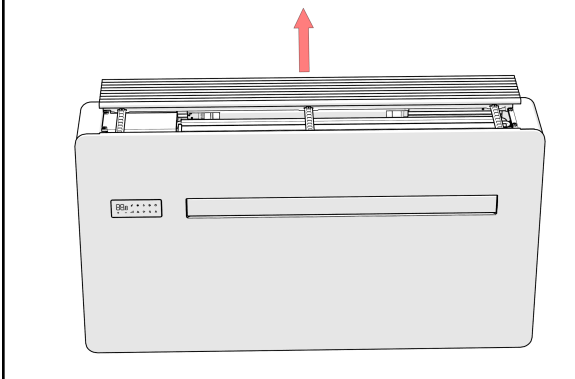
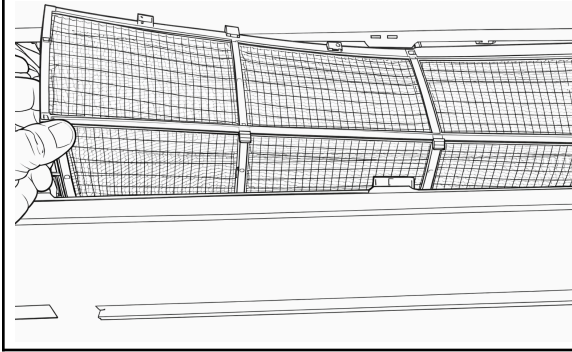


Figure 34. Remove the filter



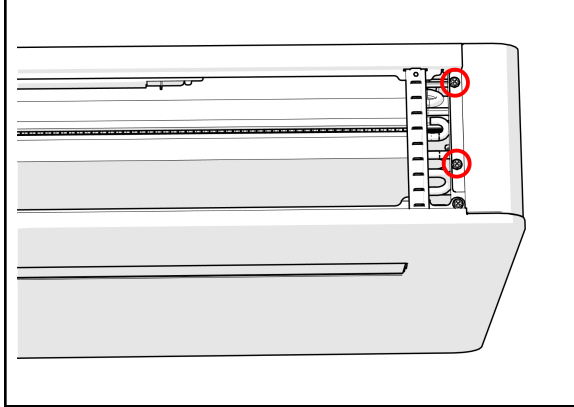
3. Remove the right side panel.

Remove the two screws that secure the right side decorative panel to the unit. Then lift and remove the right side panel.



Keep the screws that are removed in each step separate.

Figure 35. Remove the right side panel



9.2 Attaching unit



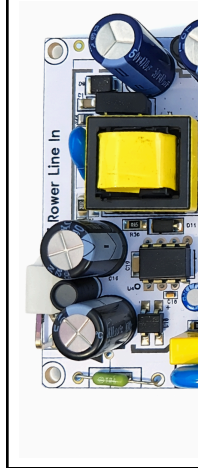
Handle the control components with care.

To attach the GWN (Gen 3) unit:

1. **Set the DIP switch.**
Set the DIP switch to the following position:
DIP switch set to ON

DIP #1	Position
HVAC Type	Value
OFF	See manual

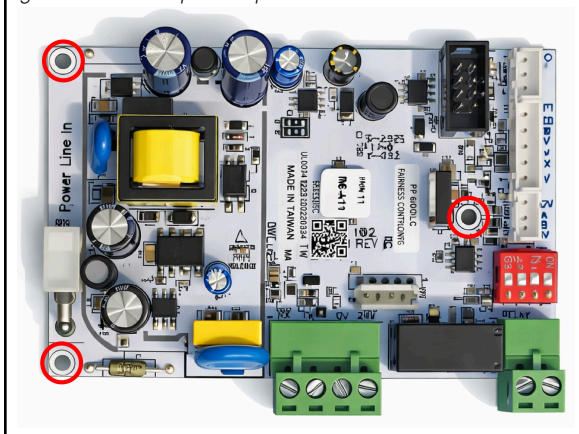
Figure 36. GWN DIP switch



2. Mount the gateway

- If there are any metal parts, remove them.
a. Insert the metal part (start the gateway in the middle).
b. Mount the gateway clips.

Figure 37. Holes for spacer clips



It is recommended to use spacer clips if there are holes, since the spacers raise the gateway board $\frac{1}{4}$ " (6.4 mm) above the metal chassis, preventing contact and ensuring safe clearance.

- If there are no mounting holes on the panel:
 - a. Clean the mounting location on the inside of the right side metal panel with an alcohol pad to ensure proper adhesion. The mounting location is shown below.
 - b. Remove the backing from one side of the two double-sided adhesive foam strips and attach the strips to the back of the gateway board.



The foam in the adhesive strips provides insulation to prevent short-circuits.

- c. Remove the backing from the other side of the adhesive strips and mount the gateway board on the inside of the metal panel. Press firmly to ensure the gateway is securely attached.

⚠ CAUTION

Make sure there is no direct contact between the gateway board and the metal panel.

Figure 38. Mount the gateway board



9.3 Connecting the gateway cables

To connect the power and communication cables between the GWN gateway and the AIO™ Wall Mounted (Gen 3) unit:

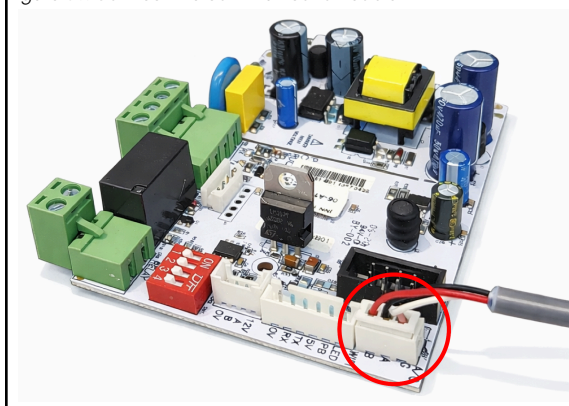
1. Connect the communication cable to the gateway.



The black power cable and round grey communication cable are pre-attached to the Gen 3 Wall-Mounted unit and hang down under the right side decorative panel, and only need to be connected to the gateway.

Insert the white connector on the round gray communication cable into the "A/C" port on the gateway.

Figure 39. Connect the communication cable



2. Connect the power cable to the gateway.



The GWN gateway uses a "Universal Input" power supply that works with any line voltage.

Insert the free end of the power cable into the gateway board.

Figure 40. Connect the power cable



Ensure that all wires are secure and that there is no contact between parts that could cause electrical issues.

9.4 Closing the unit

To close the AIO™ Wall Mounted (Gen 3) unit:

1. Test the on-board power.

- a. Reconnect the power cable to the unit.
- b. Test the unit to ensure that it can operate in all modes of operation. For more information, see the [AIO™ Wall Mounted \(Gen 3\) User Manual](#).

- If the power is not working, check the power cable and the unit's power supply.
- If the unit is not working, check the unit's power supply and the unit's power supply.

2. Close the side panel.

- a. Replace the side panel and the frame.
- b. Reinstall the unit into the unit.

3. Reconnect the power.

10. INSTALLING THE GWN GATEWAY IN THE AIO™ CEILING DUCTED / CEILING SUSPENDED (WITH ERV OPTION) UNIT

To install the GWN gateway in an AIO™ Ceiling Ducted / Ceiling Suspended (with ERV option) unit:

1. [Open the AIO™ unit.](#)
2. [Attach the gateway to the unit.](#)
3. [Connect the power and communication cables between the gateway and the unit.](#)
4. [Close the AIO™ unit.](#)



- The instructions in this section describe Gen 3 of the AIO™ Ceiling Ducted (with and without ERV) and the Ceiling Suspended (with ERV option), but the procedure is similar for Gen 1 and Gen 2 of both unit types.
- The illustrations in this section show the AIO™ Ceiling Suspended (with ERV option) unit, but the installation is very similar for the Ceiling Ducted units.

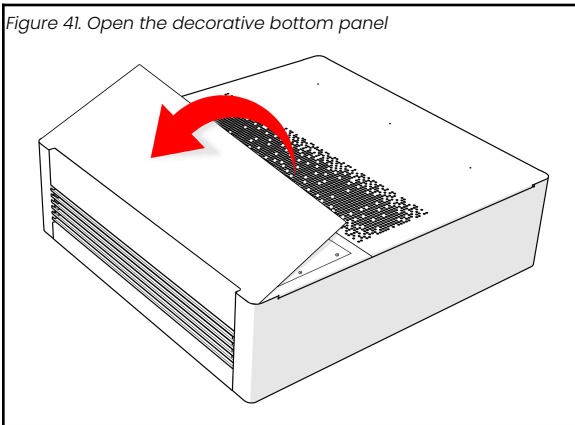
10.1 Opening the unit

To open the AIO™ Ceiling Ducted / Ceiling Suspended (with ERV option) unit:

1. **Disconnect the power supply.**
Disconnect the unit from the power supply and wait at least five minutes after it was last operated.
2. **For Ceiling Suspended units only: Open the decorative bottom panel.**

The Ceiling Suspended units have a decorative bottom panel. Pull this panel open as shown to expose the metal panel that covers the electrical panel.

Figure 41. Open the decorative bottom panel



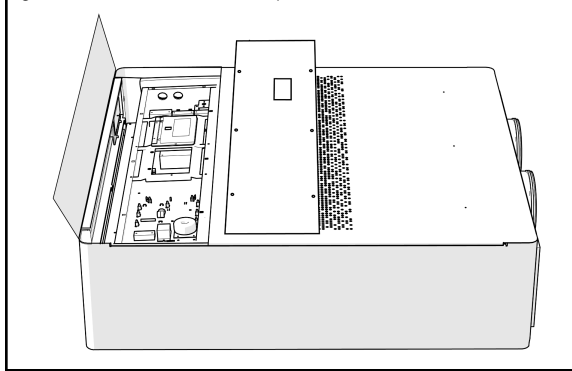
3. **Open the electrical panel.**

Remove all the screws that hold the metal panel in place, and remove the metal panel to access the electrical panel.



Keep the screws that are removed in each step separate.

Figure 42. Access the electrical panel



10.2 Attaching the unit

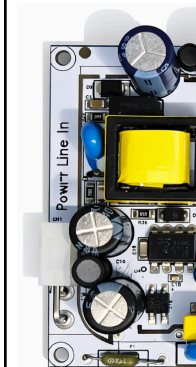


Handle the control components with care.

To attach the GWN Gateway to the AIO™ Ceiling Ducted / Ceiling Suspended unit:

1. **Set the DIP switch.**

Figure 43. GWN DIP switch



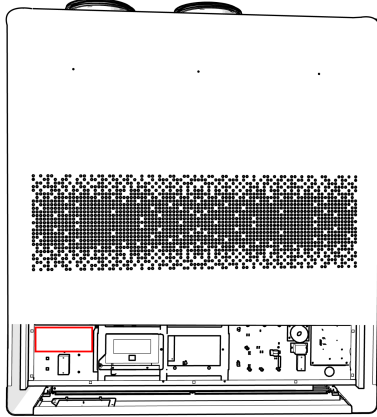
Set the DIP switch to the following table. The DIP switch set to ON.

DIP #1	DIP #2
HVAC Type	Voltage
ON	See Table 1

2. Mount the gateway board to the unit.

The electrical panel has a space near the terminal block for mounting the gateway.

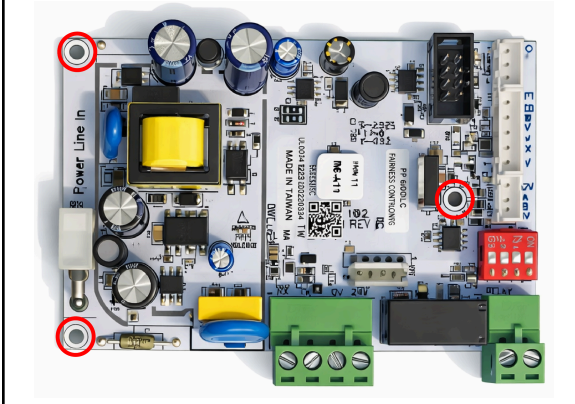
Figure 44. Mounting location for gateway on the electrical panel



Mount the gateway board as follows:

- If there are mounting holes on the electrical panel:
 - a. Insert the three plastic spacer (stand-up) clips (provided with the gateway) into the two top holes and the middle hole on the panel.
 - b. Mount the gateway board onto the clips, using the holes in the gateway.

Figure 45. Holes for spacer clips



It is recommended to use spacer clips if there are holes, since the spacers raise the gateway board $\frac{1}{4}$ " (6.4 mm) above the metal chassis, preventing contact and ensuring safe clearance.

- If there are no mounting holes on the panel:
 - a. Clean the mounting location on the electrical panel with an alcohol pad to ensure proper adhesion. The mounting location is shown below.
 - b. Remove the backing from one side of the two double-sided adhesive foam strips and attach the strips to the back of the gateway board.



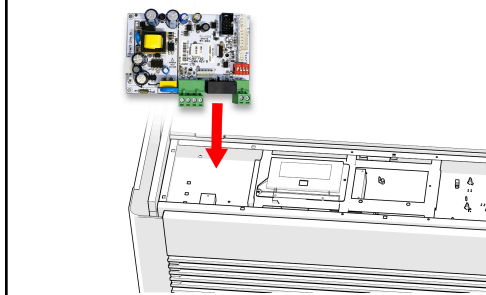
The foam in the adhesive strips provides insulation to prevent short-circuits.

- c. Remove the backing from the other side of the adhesive strips and mount the gateway board in the indicated location on the electrical panel. Press firmly to ensure the gateway is securely attached.

CAUTION

Make sure there is no direct contact between the gateway board and the metal panel.

Figure 46. Mount the gateway board



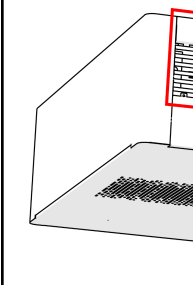
10.3 Connecti

To connect the po
between the GWN
Ducted / Ceiling S

1. Access the or

- a. Remove t

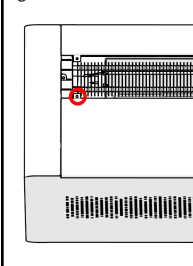
Figure 47. Grille on from



b. For Ceiling

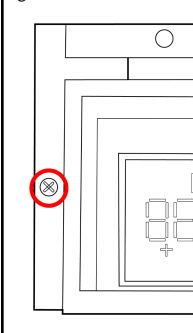
the three
panel to c
controller

Figure 48. Remove the



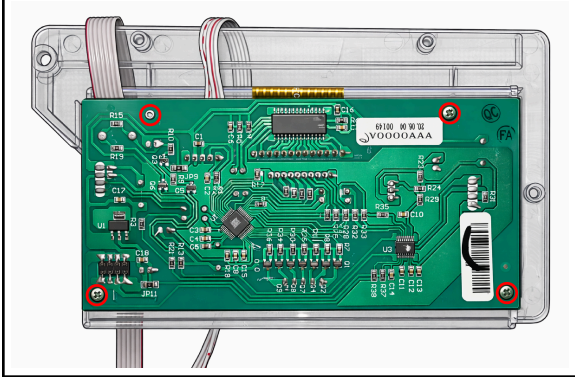
- c. Remove t
onboard
unit.

Figure 49. Detach the



- d. Remove t
controller

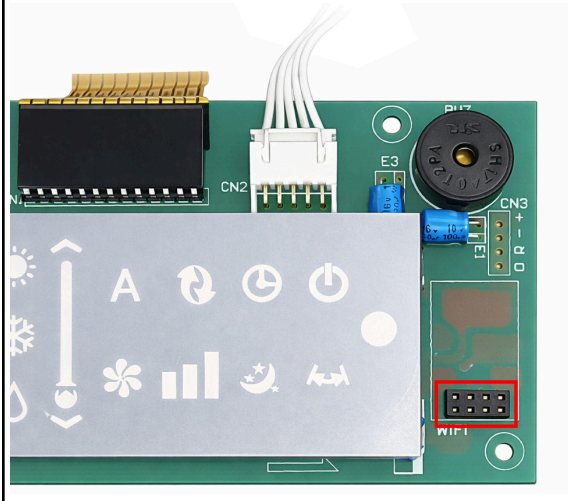
Figure 50. Open the controller housing



2. Connect the communication cable to the unit.

- Locate the black, eight-hole Wi-Fi socket on the right side of the onboard touch controller circuit board.

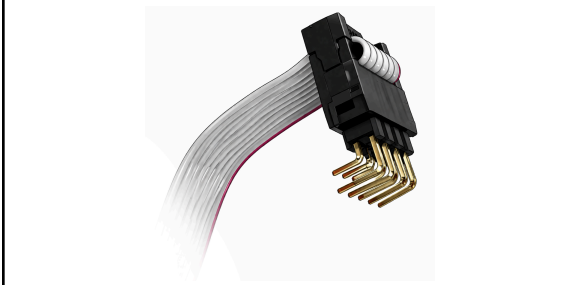
Figure 51. Wi-Fi socket on the controller board



If there is a Wi-Fi chip in the Wi-Fi socket, remove this chip to enable installing the communication cable. This Wi-Fi chip is not used with the GWN gateway. To enable Wi-Fi communication, refer to the [AIO™ Wi-Fi Module GWI-WIFI and Smart Life App Installation and User Guide](#).

- On the gray flat ribbon communication cable, find the end with an eight-pin right-angle pin header in the black connector.

Figure 52. Communication cable connector with right-angle pin header



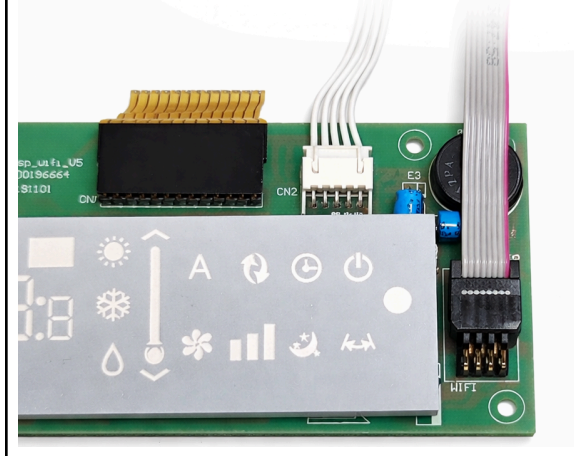
- Connect the cable to the Wi-Fi socket as follows:



Ensure that the communication cable is inserted with the red stripe on the cable facing away from the display.

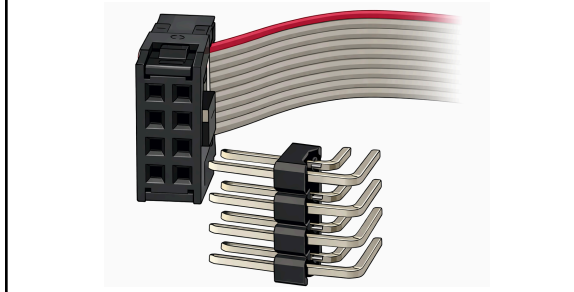
- If the Wi-Fi socket is empty:
Insert the eight pins on the cable connector securely into the Wi-Fi socket as shown.

Figure 53. Connect the communication cable to the unit



- If there is already a right-angle pin header in the Wi-Fi socket:
 - Remove the right-angle pin header from the cable connector.

Figure 54. Remove the pin header from the connector



- Push the cable connector securely onto the pins in the Wi-Fi socket as shown.

Figure 55. Connect the



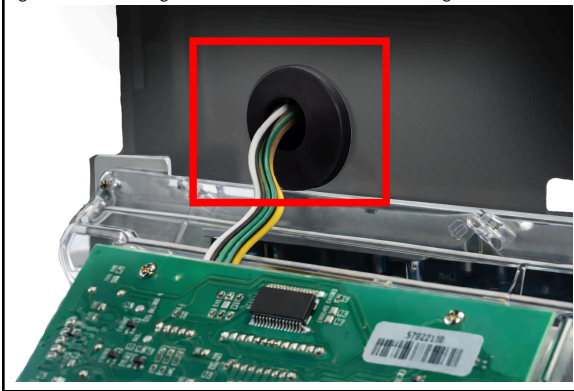
3. Reattach the

- Replace the cover and secure it with the screws. See Step 1d and 1e.
- Route the communication cable through the hole in the back of the unit behind the cover.



Be careful not to damage the components (see below) that are connected to the grommet.

Figure 56. Rubber grommet in the controller housing

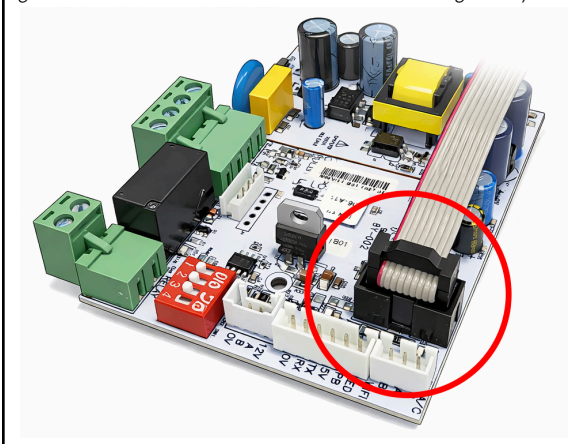


- c. Reattach the controller housing to the unit using the two screws removed in Step 1c above.

4. Connect the communication cable to the gateway.

Connect the end of the gray flat ribbon communication cable (with the 8-hole connector) to the black 8-pin socket on the gateway.

Figure 57. Connect the communication cable to the gateway



5. Connect the power cable to the unit (if needed).

The black power cable may come pre-installed in the Ceiling Ducted/Suspended unit. If it does not, it must be hard-wired to the unit by the installer.

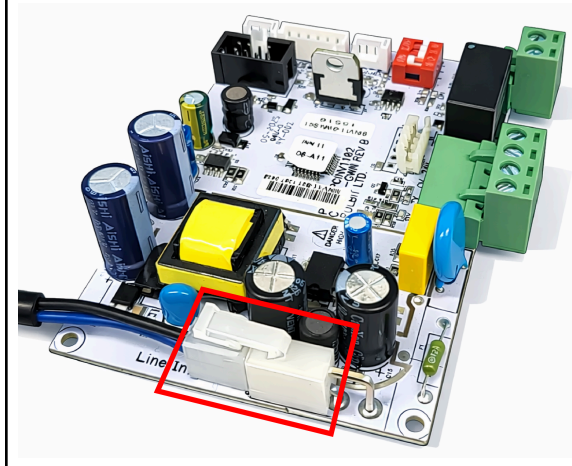


The GWN gateway uses a "Universal Input" power supply that works with any line voltage.

6. Connect the power cable to the gateway.

Insert the two-pronged end of the black power cable into the "Power Line In" port (CNI) on the gateway board.

Figure 58. Connect the power cable to the gateway



⚠ CAUTION

Ensure that all wire insulation is intact and that there are no exposed conductive parts that could cause short circuits or other electrical issues.

10.4 Closing t

To close the AIO™ (with ERV option) u

1. Test the onbo

- Reconnect power to the unit.
- Test the unit to ensure that it changes modes of operation. For more information, see the AIO™ Ceiling Unit user manual.
- If the power is not working, check the wiring and the unit's power supply.
- If the unit is not working, check the wiring and the unit's power supply.

2. Close the unit

- For Ceiling Ducted/Suspended units:** Replace the front panel and remove the screws.
- Replace the front panel and remove the screws.
- Replace the front panel and remove the screws.
- For Ceiling Ducted/Suspended units:** Replace the front panel and remove the screws.

3. Reconnect the

11. INSTALLING THE GWN GATEWAY IN THE AIO™ CEILING SUSPENDED (WITHOUT ERV OPTION) UNIT

To install the GWN gateway in an AIO™ Ceiling Suspended (without ERV option) unit:

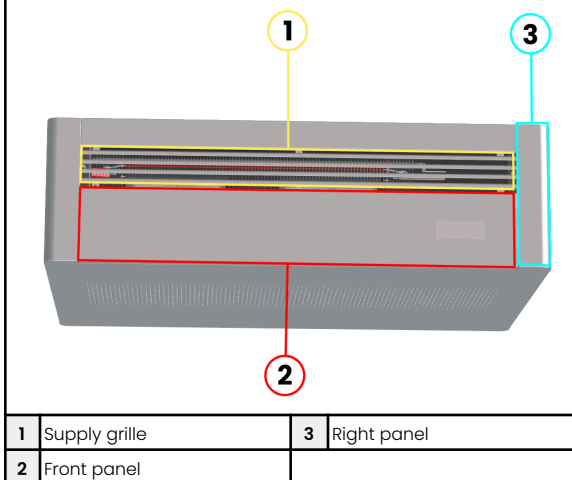
1. [Open the AIO™ unit.](#)
2. [Attach the gateway to the unit.](#)
3. [Connect the power and communication cables between the gateway and the unit.](#)
4. [Close the AIO™ unit.](#)



The instructions and illustrations in this section refer to Gen 3 of the AIO™ Ceiling Suspended (without ERV option), but the procedure is similar for Gen 1 and Gen 2.

11.1 Opening the unit

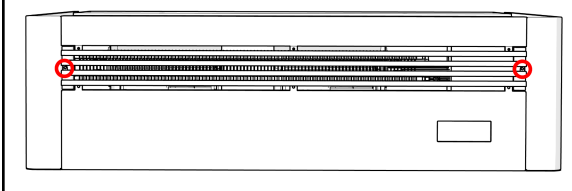
Figure 59. Open the Ceiling Suspended (without ERV) unit



To open the AIO™ Ceiling Suspended (without ERV option) unit:

1. **Disconnect the power supply.**
Disconnect the unit from the power supply and wait at least five minutes after it was last operated.
2. **Remove the supply grille, front panel, and right panel.**
 - a. Remove the two screws from the supply grille, and remove the supply grille.

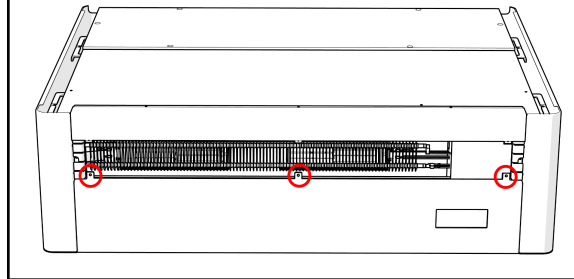
Figure 60. Remove the supply grille



Keep the screws that are removed in each step separate.

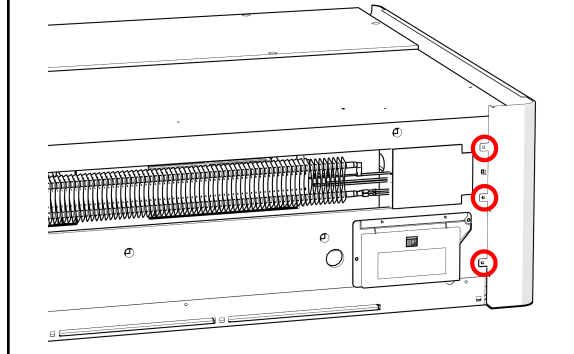
- b. Remove the three screws from the front panel, and remove the front panel.

Figure 61. Remove the front panel



- c. Remove the three screws from the right side panel, and remove the right side panel (the side next to the display).

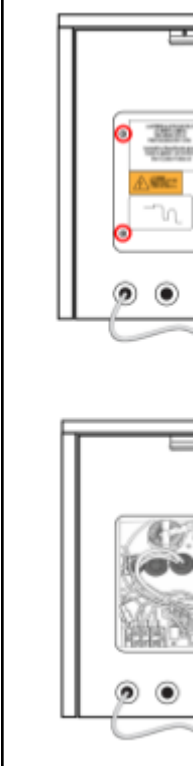
Figure 62. Remove the right side panel



3. Open the electrical panel.

On the side of the unit next to the display, remove the four screws from the electrical panel cover, and remove the cover to expose the electrical panel.

Figure 63. Open the electrical panel



11.2 Attaching the GWN gateway unit

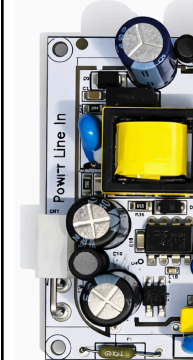


Handle the control components with care.

To attach the GWN gateway to the AIO™ Ceiling Suspended (without ERV option) unit:

1. Set the DIP switch

Figure 64. GWN DIP switch



Set the DIP switch to the following settings:
DIP switch 1: ON

DIP #1	DIP #2	DIP #3	DIP #4
HVAC Type	Verdant	N/A	N/A
ON	See Section 6	OFF	OFF

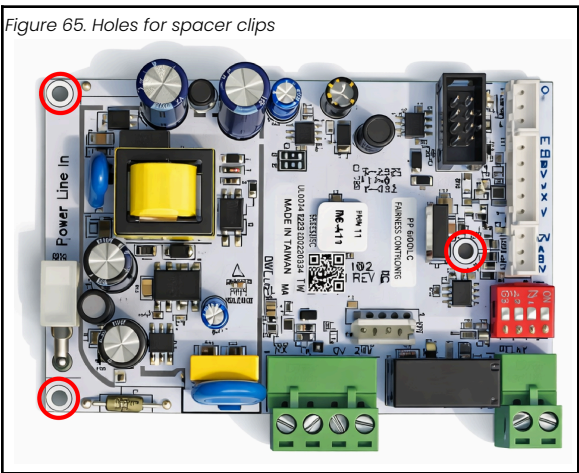
2. Mount the gateway board to the unit.

The electrical panel has a space on the side wall for mounting the gateway, as shown in Figure 66 below.

Mount the gateway board as follows:

- If there are mounting holes on the electrical panel:
 - a. Insert the three plastic spacer (stand-up) clips (provided with the gateway) into the two top holes and the middle hole on the panel.
 - b. Mount the gateway board onto the clips, using the holes in the gateway.

Figure 65. Holes for spacer clips



It is recommended to use spacer clips if there are holes, since the spacers raise the gateway board ¼" (6.4 mm) above the metal chassis, preventing contact and ensuring safe clearance.

- If there are no mounting holes on the panel:
 - a. Clean the mounting location on the electrical panel with an alcohol pad to ensure proper adhesion. The mounting location is shown below.
 - b. Remove the backing from one side of the two double-sided adhesive foam strips and attach the strips to the back of the gateway board.



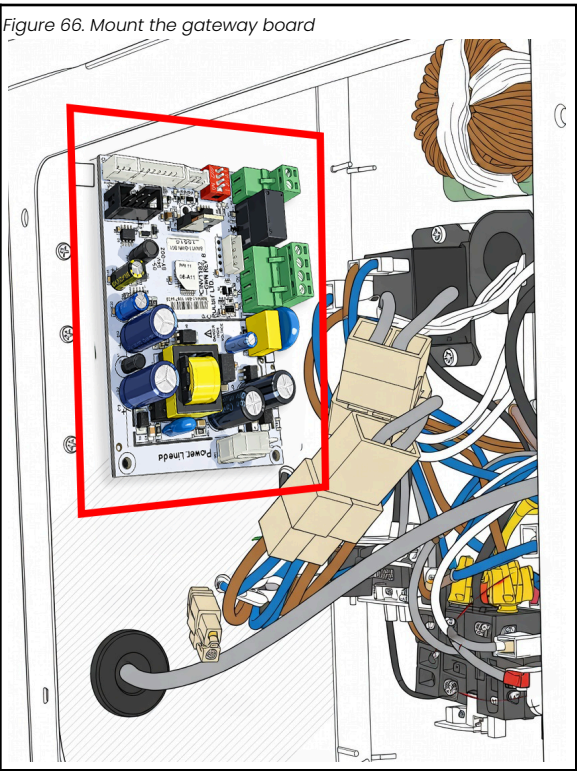
The foam in the adhesive strips provides insulation to prevent short-circuits.

- c. Remove the backing from the other side of the adhesive strips and mount the gateway board in the indicated location on the electrical panel. Press firmly to ensure the gateway is securely attached.

⚠ CAUTION

Make sure there is no direct contact between the gateway board and the metal panel.

Figure 66. Mount the gateway board



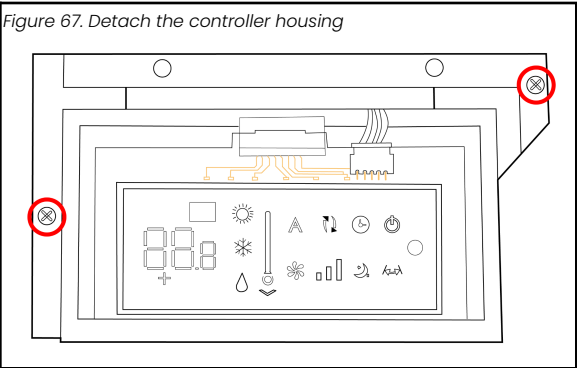
11.3 Connecting the gateway cables

To connect the power and communication cables between the GWN gateway and the AIO™ Ceiling Suspended (without ERV option) unit:

1. Access the onboard touch controller.

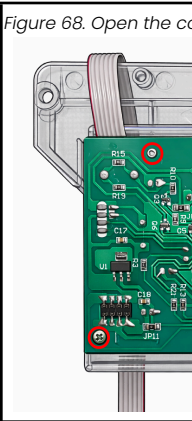
- a. Remove the two screws to detach the onboard touch controller housing from the unit.

Figure 67. Detach the controller housing



- b. Remove the backing from the other side of the adhesive strips and mount the gateway board in the indicated location on the electrical panel. Press firmly to ensure the gateway is securely attached.

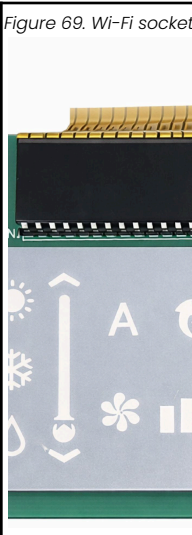
Figure 68. Open the cover



2. Connect the cables

- a. Locate the touch controller on the right side of the circuit board.

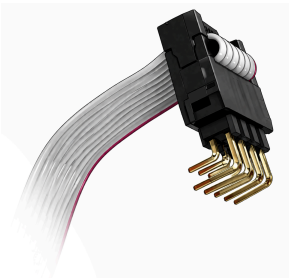
Figure 69. Wi-Fi socket



If there are no mounting holes on the panel, remove the backing from one side of the two double-sided adhesive foam strips and attach the strips to the back of the gateway board. The foam in the adhesive strips provides insulation to prevent short-circuits.

- b. On the right side of the unit, find the cable, find the angle pin, and insert it into the cable.

Figure 70. Communication cable connector with right-angle pin header



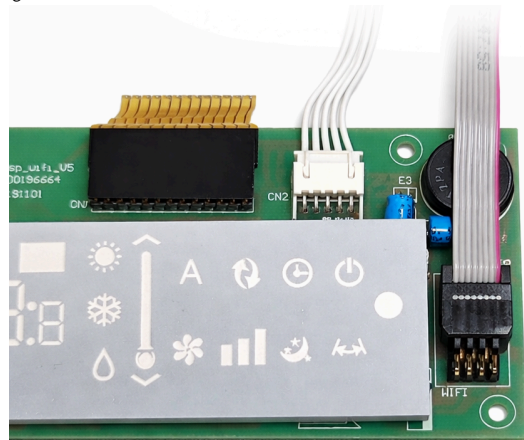
c. Connect the cable to the Wi-Fi socket as follows:



Ensure that the communication cable is inserted with the red stripe on the cable facing away from the display.

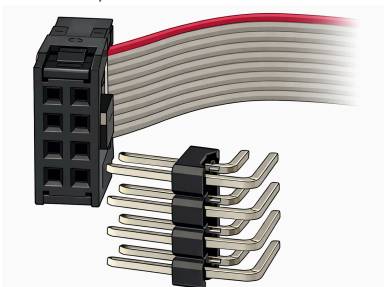
- If the Wi-Fi socket is empty:
 - i. Insert the eight pins on the cable connector securely into the Wi-Fi socket as shown.

Figure 71. Connect the communication cable to the unit



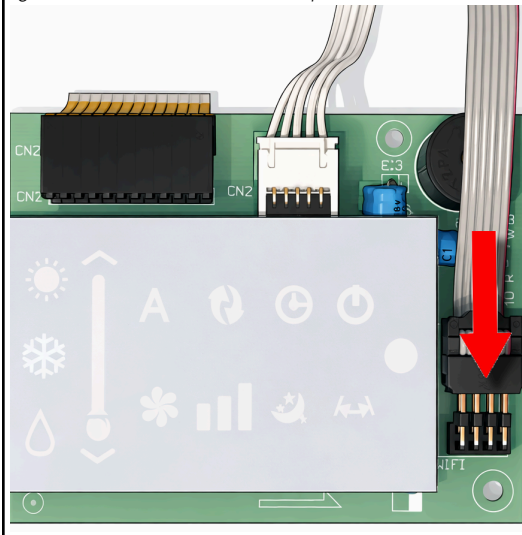
- If there is already a right-angle pin header in the Wi-Fi socket:
 - i. Remove the right-angle pin header from the cable connector.

Figure 72. Remove the pin header from the connector



- ii. Push the cable connector securely onto the pins in the Wi-Fi socket as shown.

Figure 73. Connect the cable to the pin header in the Wi-Fi socket



3. Reattach the onboard touch controller.

- a. Replace the controller in its housing and secure it using the four screws removed in Step 1b above.
- b. Route the free end of the communication cable through the rubber cable grommet behind the controller housing.

CAUTION

Be careful not to damage the colored wires (seen below) that are already routed through the grommet.

Figure 74. Rubber grommet

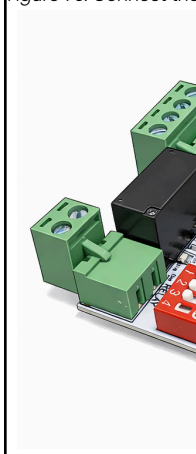


c. Reattach the controller using the four screws removed above.

4. Connect the communication cable to the gateway.

Connect the communication cable to the gateway.

Figure 75. Connect the communication cable to the gateway



5. Connect the power supply to the gateway.

The black power supply cable for the Ceiling Sunbeamer should be hard-wired to the gateway.

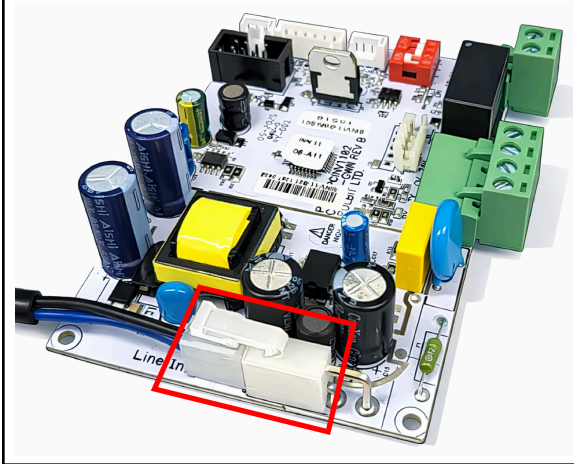


The GWN Gateway has a "Line Voltage Input" port for line voltage.

6. Connect the communication cable to the gateway.

Insert the two communication cable wires into the gateway board.

Figure 76. Connect the power cable to the gateway



CAUTION

Ensure that all wire insulation on the cables is intact and that there are no exposed conductive parts that could cause short circuits or other electrical issues.

11.4 Closing the unit

To close the AIO™ Ceiling Suspended (without ERV option) unit:

1. Test the onboard touch controller.

- Reconnect the power supply to the unit and power it on.
- Test the onboard touch controller to verify that it changes the temperature setting and modes of operation as selected. Refer to the [AIO™ Ceiling Ducted User Guide](#) for more information (since the Ceiling Suspended units use the same controller).
 - If the 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 11.1 through 11.3 to check if all connections are secure. Then repeat the test. If the test still fails, contact an INNOVA-trained service technician.

2. Close the unit.

- Replace the electrical panel cover using the four screws removed in Section 11.1, Step 3.
- Replace the right side panel using the three screws removed in Section 11.1, Step 2c.
- Replace the front panel using the three screws removed in Section 11.1, Step 2b.
- Replace the supply grille using the two screws removed in Section 11.1, Step 2a.

3. Reconnect the power supply to the unit.

12. INSTALLATION IN THE AIR UNIT



The GW...
in a Ver...
later, si...
located...
unit and...
gateway...

To install the GWN...
(Gen 3) unit:

- [Open the AIO™](#)
- [Attach the ga...](#)
- [Connect the p...
between the c...](#)
- [Close the AIO™](#)

12.1 Opening t

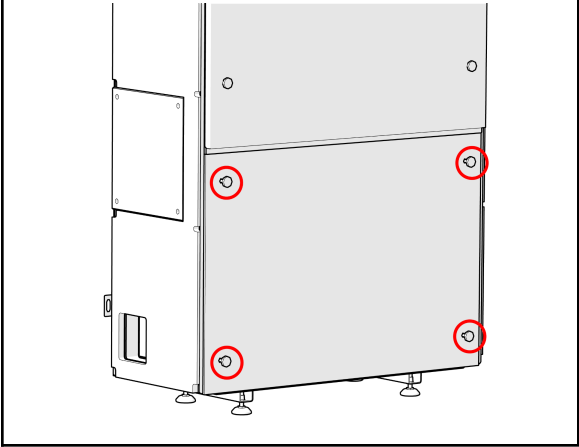
To open the AIO™

- Disconnect th...**
Disconnect th...
wait at least f...
operated.
- Open the elec...**
Open the elec...
knobs.



Keep a...
remove...

Figure 77. Remove the knobs to open the electrical panel



12.2 Attaching the GWN gateway to the unit

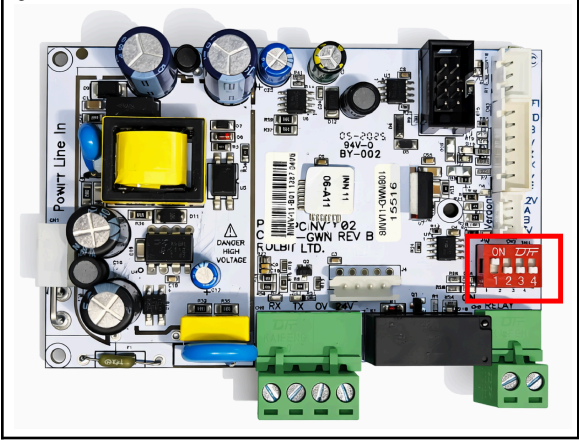
CAUTION

Handle the control board and all electronic components with care to avoid damage.

To attach the GWN gateway to the AIO™ Vertical Stack unit:

- 1. Set the DIP switches on the gateway.

Figure 78. GWN DIP switches



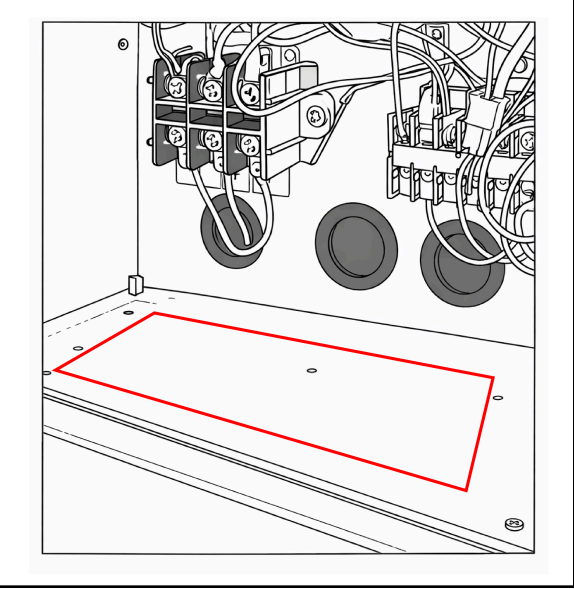
Set the DIP switches on the gateway as shown in the following table. For more explanation of the DIP switch settings, see [Section 6](#)

DIP #1	DIP #2	DIP #3	DIP #4
HVAC Type	Verdant	N/A	N/A
ON	See Section 6	OFF	OFF

- 2. Mount the gateway board to the unit.

The electrical panel has a space at the bottom, near the terminal block, for mounting the gateway.

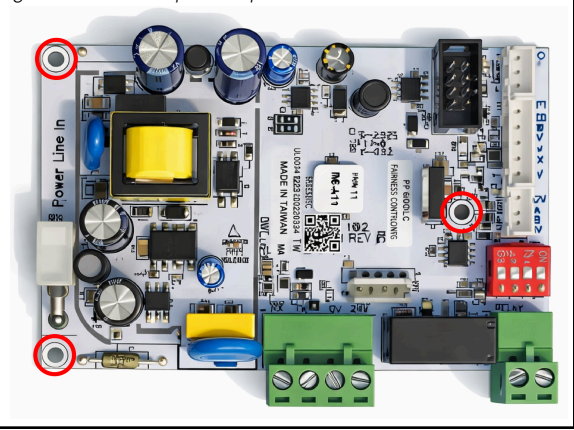
Figure 79. Gateway board mounting location



Mount the gateway board as follows:

- If there are mounting holes on the electrical panel:
 - a. Insert the three plastic spacer (stand-up) clips (provided with the gateway) into the two top holes and the middle hole on the panel.
 - b. Mount the gateway board onto the clips, using the holes in the gateway.

Figure 80. Holes for spacer clips



It is recommended to use spacer clips if there are holes, since the spacers raise the gateway board ¼" (6.4 mm) above the metal chassis, preventing contact and ensuring safe clearance.

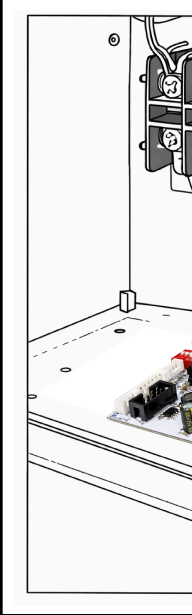
- If there are no mounting holes on the panel:
 - a. Clean the mounting location on the electrical panel with an alcohol pad to ensure proper adhesion. The mounting location is shown below.
 - b. Remove the backing from one side of the two double-sided adhesive foam

The foam insulation

c. Remove the backing from the other side of the double-sided adhesive foam and attach it to the electrical panel.

Make sure there is no contact between the gateway board and the electrical panel.

Figure 81. Mount the gateway board

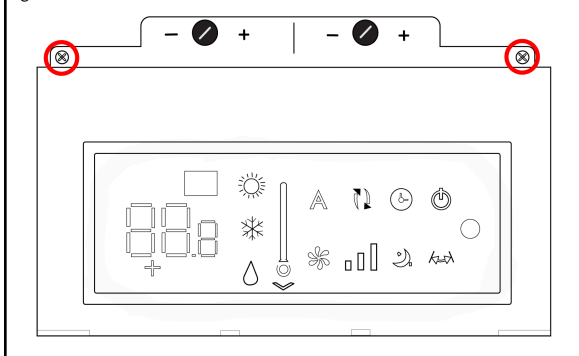


12.3 Connecting the gateway to the unit

To connect the power supply between the GWN gateway and the AIO™ Vertical Stack unit:

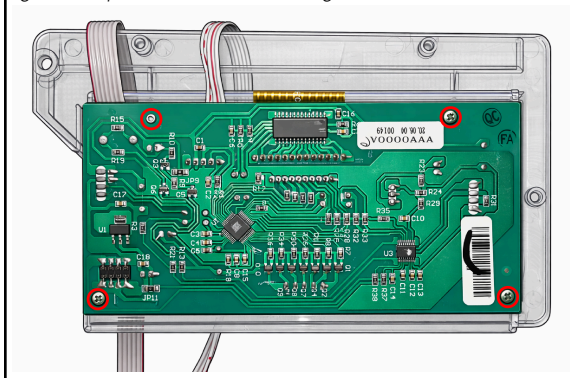
- 1. Access the power supply terminal block on the unit.
- a. Remove the terminal block cover on the unit.

Figure 82. Access the onboard touch controller



- b. Remove the four screws to remove the controller from the housing.

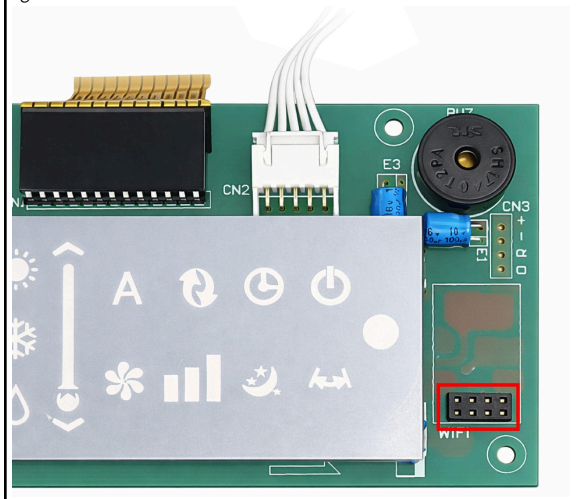
Figure 83. Open the controller housing



2. Connect the communication cable to the unit.

- a. Locate the black, eight-hole Wi-Fi socket on the right side of the onboard touch controller circuit board.

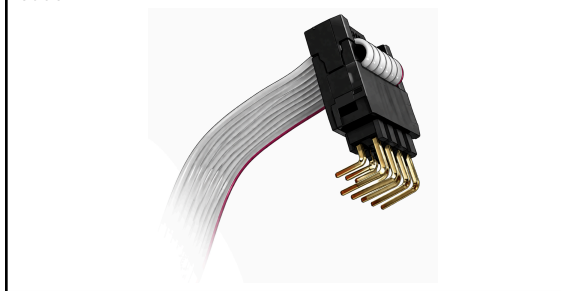
Figure 84. Wi-Fi socket on the controller board



If there is a Wi-Fi chip in the Wi-Fi socket, remove this chip to enable installing the communication cable. This Wi-Fi chip is not used with the GWN gateway. To enable Wi-Fi communication, refer to the [AIO™ Wi-Fi Module GWN-WIFI and Smart Life App Installation and User Guide](#).

- b. On the gray flat ribbon communication cable, find the end with an eight-pin right-angle pin header in the black connector.

Figure 85. Communication cable connector with right-angle pin header



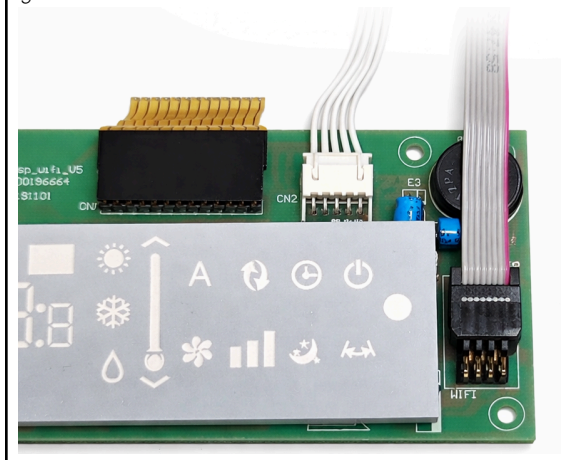
- c. Connect the cable to the Wi-Fi socket as follows:



Ensure that the communication cable is inserted with the red stripe on the cable facing away from the display.

- If the Wi-Fi socket is empty:
Insert the eight pins on the cable connector securely into the Wi-Fi socket as shown.

Figure 86. Connect the communication cable to the unit



- If there is already a right-angle pin header in the Wi-Fi socket:
 - i. Remove the right-angle pin header from the cable connector.

Figure 87. Remove the pin header from the connector

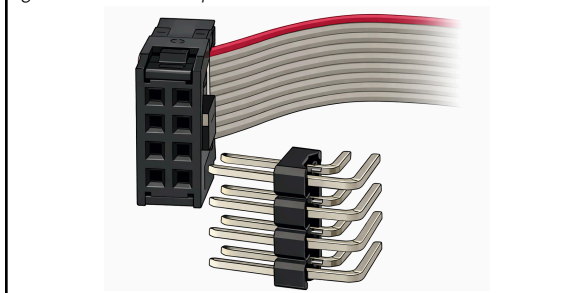
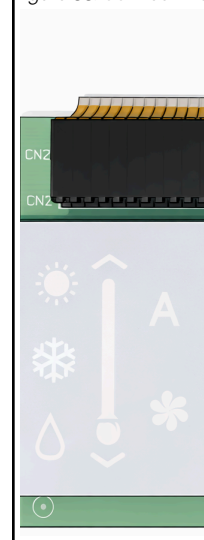


Figure 88. Connect the



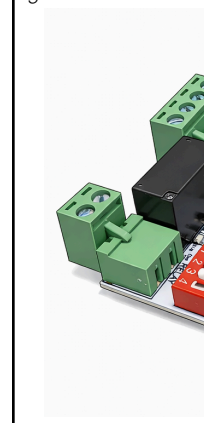
3. Reattach the

- a. Replace the display and secure it with the screws from Step 1b and the screws from Step 1c.
- b. Reattach the touch controller using the screws from Step 1b above.

4. Connect the communication gateway.

Connect the communication gateway (communication connector) to the communication gateway.

Figure 89. Connect the



5. Connect the power supply.

The black power supply cable is connected to the Vertical Slot hard-wired terminal block.

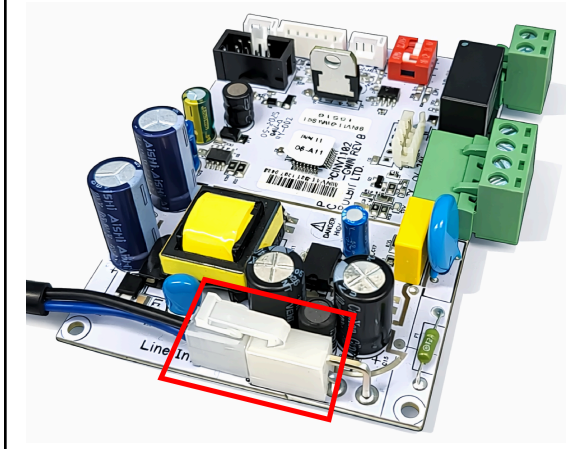


The GWN gateway uses a “Universal Input” power supply that works with any line voltage.

6. Connect the power cable to the gateway.

Insert the two-pronged end of the black power cable into the “Power Line In” port (CNI) on the gateway board.

Figure 90. Connect the power cable to the gateway



CAUTION

Ensure that all wire insulation on the cables is intact and that there are no exposed conductive parts that could cause short circuits or other electrical issues.

12.4 Closing the unit

To close the AIO™ Vertical Stack unit:

1. Test the onboard touch controller.

- Reconnect the power supply to the unit and power it on.
- Test the onboard touch controller to verify that it changes the temperature setting and modes of operation as selected. Refer to the [AIO™ Vertical Stack User Guide](#) for more information.
 - If the 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 12.1 through 12.3 to check if all connections are secure. Then repeat the test. If the test still fails, contact an INNOVA-trained service technician.

2. Close the unit.

Close the electrical panel by replacing and tightening the four knobs removed in Section 12.1, Step 2.

3. Reconnect the power supply to the unit.

13. INSTALLATION IN THE AIR UNIT

To install the gateway:

- [Open the AIO™ Vertical Stack unit.](#)
- [Attach the gateway to the unit.](#)
- [Connect the power cable to the gateway.](#)
- [Close the AIO™ Vertical Stack unit.](#)



The installation section of the AIO™ Vertical Stack User Guide contains similar information.

13.1 Opening the unit

To open the AIO™ Vertical Stack unit:

- 1. Disconnect the power supply.**
Disconnect the power supply from the unit and wait at least five minutes for the capacitors inside the unit to discharge.
- 2. Remove the electrical panel.**
Remove the electrical panel by loosening the four knobs. Then remove the panel.



Keep the removed panel safe for future use.

Figure 91. Remove the knobs from the decorative panel

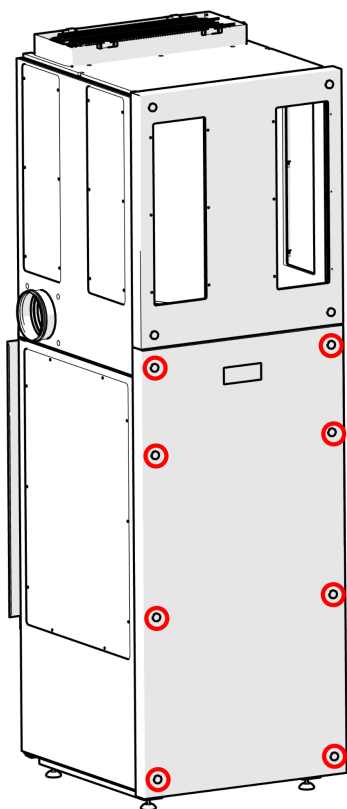
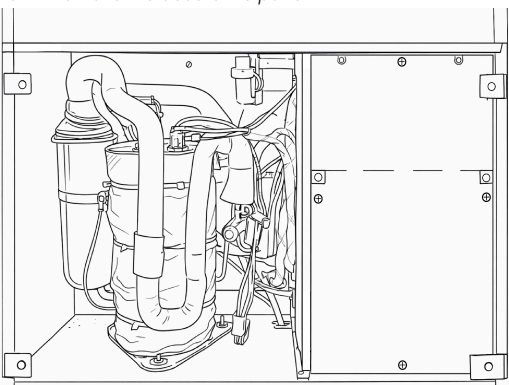


Figure 92. Remove the decorative panel



3. Open the electrical panel.

Remove the four screws and the two metal panels to access the electrical panel.

Figure 93. Remove the metal panels

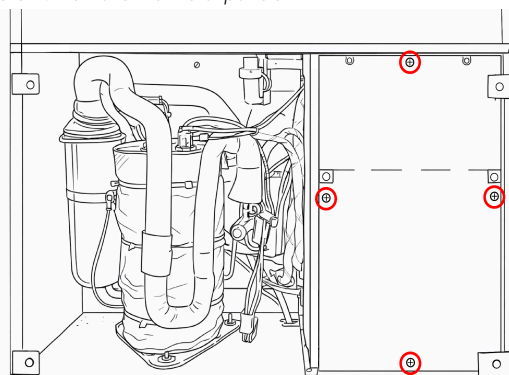
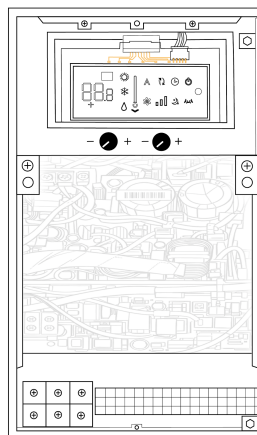


Figure 94. Open the electrical panel



13.2 Attaching the GWN gateway to the unit

⚠ CAUTION

Handle the control board and all electronic components with care to avoid damage.

To attach the GWN gateway to the AIO™ Vertical Stack XL unit:

1. Set the DIP switches on the gateway.

Figure 95. GWN DIP switch



Set the DIP switch to the following position:
DIP switch set to ON

DIP #1	Position
HVAC Type	V
ON	See

2. Mount the gateway to the unit.
The electrical panel is the location for mounting the gateway.

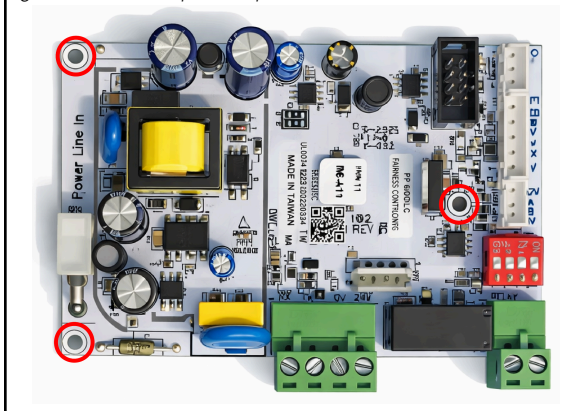
Figure 96. Gateway board



Mount the gateway to the unit:

- If there are any screws in the panel:
 - a. Insert the screws into the panel (starting from the top left corner of the gateway board and moving down the middle).
 - b. Mount the gateway board using the screws.

Figure 97. Holes for spacer clips



It is recommended to use spacer clips if there are holes, since the spacers raise the gateway board $\frac{1}{4}$ " (6.4 mm) above the metal chassis, preventing contact and ensuring safe clearance.

- If there are no mounting holes on the panel:
 - a. Clean the mounting location on the electrical panel with an alcohol pad to ensure proper adhesion. The mounting location is shown below.
 - b. Remove the backing from one side of the two double-sided adhesive foam strips and attach the strips to the back of the gateway board.



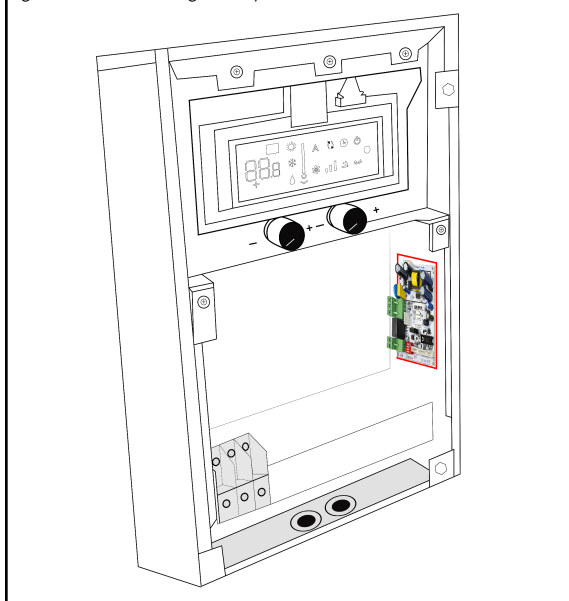
The foam in the adhesive strips provides insulation to prevent short-circuits.

- c. Remove the backing from the other side of the adhesive strips and mount the gateway board in the indicated location on the electrical panel. Press firmly to ensure the gateway is securely attached.

⚠ CAUTION

Make sure there is no direct contact between the gateway board and the metal panel.

Figure 98. Mount the gateway board



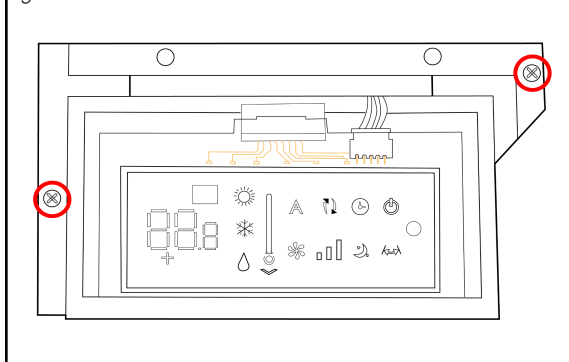
13.3 Connecting the gateway cables

To connect the power and communication cables between the GWN gateway and the AIO™ Vertical Stack XL unit:

1. Access the onboard touch controller.

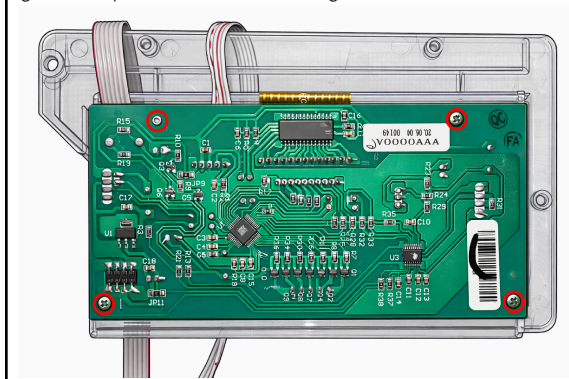
- a. Remove the two screws to detach the onboard touch controller housing from the unit.

Figure 99. Access the onboard touch controller



- b. Remove the four screws to remove the controller from the housing.

Figure 100. Open the controller housing



2. Connect the cables

- a. Locate the right side of the circuit board.

Figure 101. Wi-Fi socket



If there are no mounting holes on the panel, remove the backing from the adhesive strips and attach the strips to the back of the gateway board. The mounting location is shown below.



- b. On the gateway board, find the right side of the cable, find the right side of the angle pin.

Figure 102. Communication header



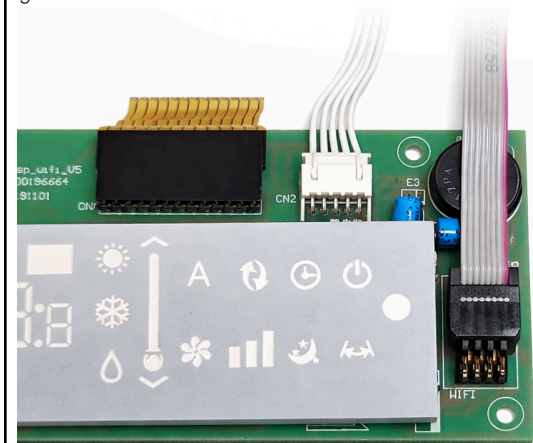
- c. Connect the cables as follows:



Ensure the cables are inserted correctly and facing the right direction.

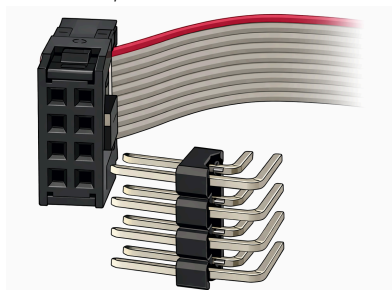
- If there are no mounting holes on the panel, remove the backing from the adhesive strips and attach the strips to the back of the gateway board. The mounting location is shown below.

Figure 103. Connect the communication cable to the unit



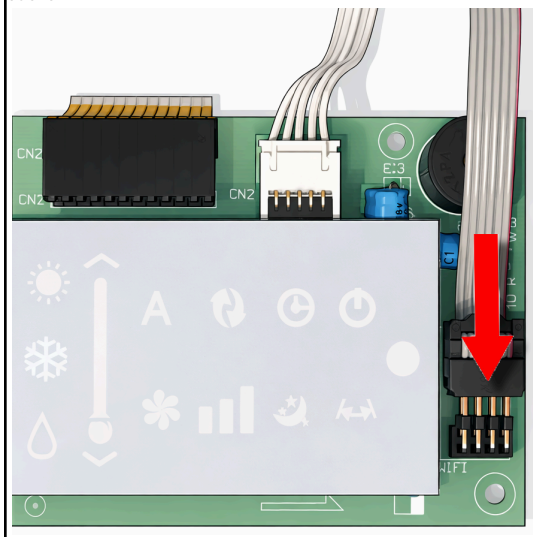
- If there is already a right-angle pin header in the Wi-Fi socket:
 - i. Remove the right-angle pin header from the cable connector.

Figure 104. Remove the pin header from the connector



- ii. Push the cable connector securely onto the pins in the Wi-Fi socket as shown.

Figure 105. Connect the cable to the pin header in the Wi-Fi socket



3. Reattach the onboard touch controller.

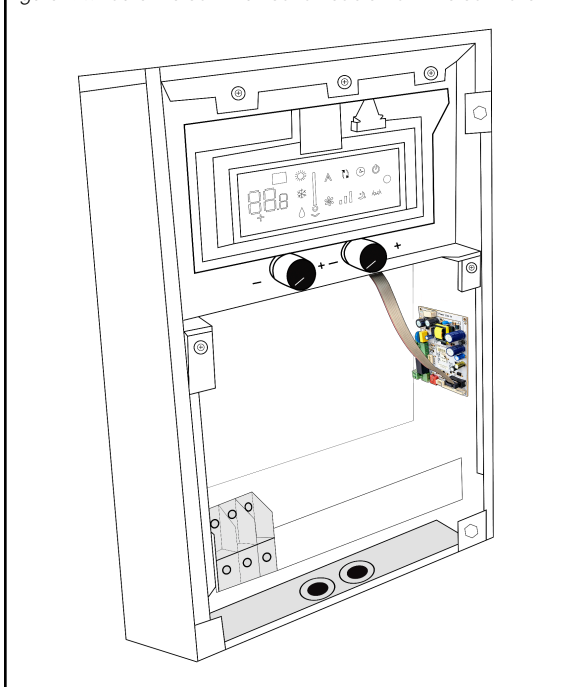
- a. Replace the controller in its housing and secure it using the four screws removed in Step 1b above.

- b. Reattach the controller housing to the unit using the two screws removed in Step 1a above.

4. Connect the communication cable to the gateway.

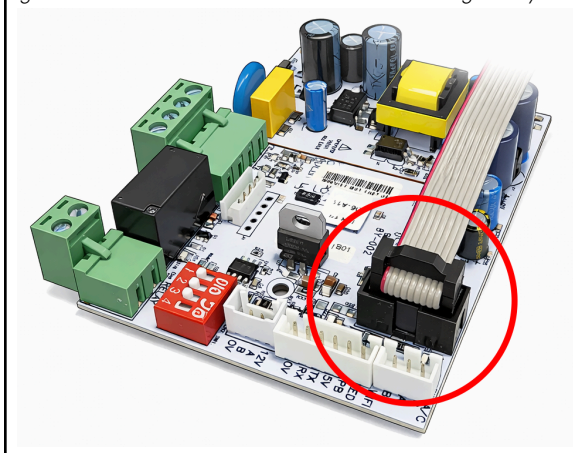
- a. Route the free end (with the 8-hole connector) of the gray flat ribbon communication cable from behind the controller to enable connecting it to the gateway.

Figure 106. Route the communication cable from the controller



- b. Connect the end of the gray flat ribbon communication cable (with the 8-hole connector) to the black 8-pin socket on the gateway.

Figure 107. Connect the communication cable to the gateway



5. Connect the power

The black power cable connects the Vertical Stack hard-wired to the gateway board.



The GW "Line Input" power line volt

6. Connect the power

Insert the two power cables into the gateway board.

Figure 108. Connect the power



Ensure that all wires are properly connected and there are no exposed wires that could cause short circuits.

13.4 Closing the unit

To close the AIO™ Ceiling Vertical Stack XL unit:

1. Test the onboard touch controller.

- a. Reconnect the power supply to the unit and power it on.
- b. Test the onboard touch controller to verify that it changes the temperature setting and modes of operation as selected. Refer to the [AIO™ Vertical Stack User Guide](#) for more information (since the Vertical Stack XL units use the same controller).
 - If the 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 13.1 through 13.3 to check if all connections are secure. Then repeat the test. If the test still fails, contact an INNOVA-trained service technician.

2. Close the unit.

- a. Replace the two metal panels and secure them with the four screws removed in Section 13.1, Step 3.
- b. Replace the decorative panel and secure it by replacing and tightening the eight knobs removed in Section 13.1, Step 2.

3. Reconnect the power supply to the unit.

14. WARRANTY TERMS AND CONDITIONS

Controllers and gateways carry a two-year warranty.

14.1 Exclusions and limitations

The above-noted warranty shall not cover:

- Any damage resulting from improper voltage supplied to the AIO unit.
- Damage to a controller or gateway where there is a corrosive atmosphere containing any damaging chemical, such as chlorine or fluorine.
- Failure of the controller or gateway due to acts of God, natural disasters, power failures, interruptions, brownouts or power spikes, or due to incorrect, inadequate electrical service, or failure of internet services or home networks.
- Damages or personal injury caused directly or indirectly by failure or malfunction of the controller or gateway as a result of any cause, including natural disasters, accidents, misuse, improper wiring, or installation.

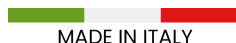
For additional information and any product inquiries, contact:

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Revised August 03, 2026

AIO™ GWN Gateway for AIO™ Heat Pumps

Installation Guide