AIO® Heat Trace Wire Kit for Wall Mounted (Gen 3) Units (GB1120)

Installation Guide



innova

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1. READING THIS DOCUMENTATION

Some language and symbols in this documentation have specific meanings.

1.1 Documentation-specific language

Reference to the product
Any reference to "the unit" is meant to refer to the AIO® Condensate Drain Pipe Heater Kit.

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

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

- **User:** a non-expert who can safely operate the unit and perform basic diagnostics and maintenance.
- **Installer:** a trained and certified HVAC installation technician responsible for the correct installation of the unit as indicated in the installation guide and in accordance with all local and national codes.
- **Trained HVAC technicians:** a group term for both installation and service technicians.

1.2 Icons and symbols

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

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

DANGER

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

WARNING

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

CAUTION

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

Warning pictograms
The warning pictograms indicate the type of risk and are used with any warning panel.

	The lightning-bolt pictogram indicates a warning related to electrical hazards.
	The three vertical, S-shaped, parallel lines pictogram indicates information related to a hot surfaces hazard.
	The exclamation-mark pictogram indicates general hazards (environmental hazards, moving parts hazards, lifting hazards, and other categories).

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

 Indicates critical information for correct operation or installation.

2. SAFETY GUIDELINES - READ BEFORE INSTALLING

This guide outlines the steps to safely and securely install the AIO® Condensate Drain Pipe Heater Kit. By following these instructions, installers can significantly reduce the chances of equipment damage.

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

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

Only a trained HVAC installation technician may install this unit.

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

2.1 Hot surface hazards

⚠ DANGER

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

⚠ CAUTION

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

2.2 Electrical hazards

⚠ DANGER

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

⚠ WARNING

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

⚠ WARNING

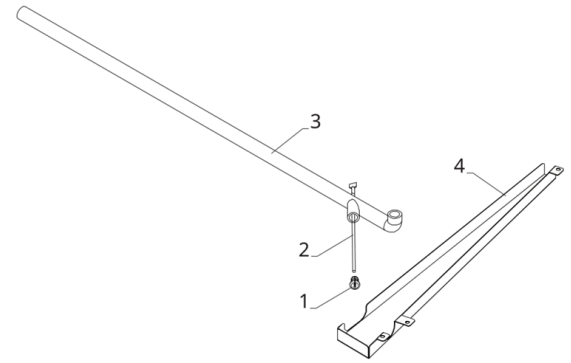
- Follow OSHA-compliant Lockout/Tagout (LOTO) procedures.
- Use only standard circuit breakers and fuses that match the unit's rating.
- Do not use an extension cord or adapter plug, or connect multiple devices to a single outlet, as this may cause a fire or electric shock.
- Do not modify plugs or remove the grounding pin, as this may cause a fire or electric shock. always connect to a grounded 3-prong power supply.
- Do not bundle, pull, damage, or modify the power cord. Do not place heavy objects on it or heat sources on or near it, as this may cause a fire or electric shock.
- Do not operate the unit with damaged electrical cords or plugs, as this may cause a fire or electric shock. If the power cord is damaged, it must be replaced by the manufacturer or licensed service personnel.
- Do not connect the ground wire to gas pipes, lightning rods, or telephone ground, as this may cause a fire or electric shock.
- Ensure electrical panels are closed and secured before energizing equipment to reduce the risk of electric shock.
- In the event of a blackout or thunderstorm, turn off the unit and disconnect it from the power source immediately to reduce the risk of electric shock or damage.

3. DESCRIPTION

The Condensate Drain Pipe Heating Kit helps prevent drain pipe freezing and is compatible with AIO® Wall Mounted Gen 3 units. The kit includes:

- Condensate drain pipe
- Heating cable
- End cap
- Metal raceway
- 2 fixing screws
- Tie
- U-clamp

Figure 1. Components



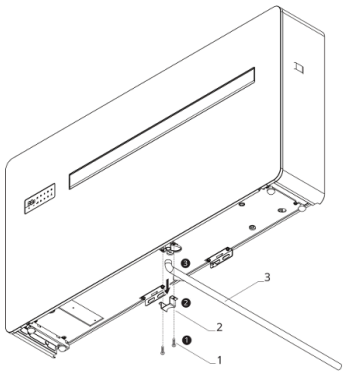
1	End cap	**3**	Condensate drain pipe
2	Heating cable	**4**	Metal raceway

4. INSTALLATION

- All operations must be performed by trained HVAC technicians while wearing the required Personal Protective Equipment.
- For the unit to function properly, the work area must remain clean throughout installation. Regularly clear away waste, offcuts, debris, or dirt.
- The heating cable is marked to indicate its warm section, and its length is adjustable.

4.1 Recommended Method: Replace the Drain Pipe

Figure 2. Removal of the condensate drain pipe



1	Fixing screws	**3**	Condensate drain pipe
2	U-clamp		

INNOVA recommends replacing the factory-installed condensate drain pipe when installing the heating kit. This method provides the most reliable drainage performance. If the existing drain pipe cannot be removed, see **Alternative Installation Method** in Section 4.2.

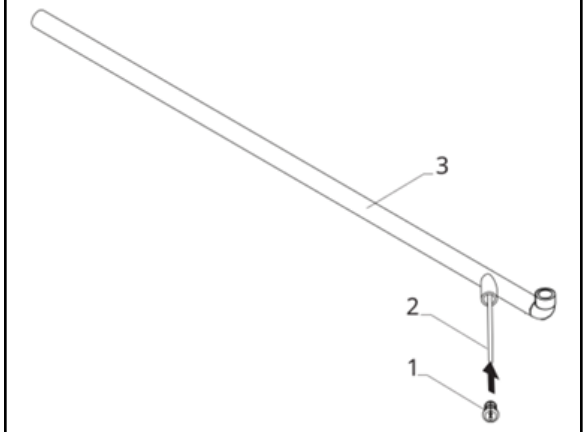
To remove the condensate drain pipe:

1. Unscrew the two screws securing the U-clamp.
2. Remove the U-clamp.
3. Remove the condensate drain pipe.

To install the Heated Drain Pipe:

1. Cut the supplied drain pipe to the required length based on wall depth.
2. Insert the heating cable fully into the drain pipe.
3. Install the end cap on the pipe.
4. Secure the cap with the clamp provided.
5. Attach the drain pipe to the unit using the U-clamp supplied with the kit.
6. Route any excess heating cable through the metal raceway.

Figure 3. Installation of condensate drain pipe heater kit



1	End cap	**3**	Condensate drain pipe
2	Heating cable		

⚠ WARNING

- The heating cable must not be accessible to the end user.
- The heating cable must not protrude from the condensate drain pipe.
- Do not cut, hammer, or otherwise damage the heating cable.
- Failure to follow these instructions may result in electric shock or burns.

4.2 Alternative Installation Method (Only if Pipe Removal Is Not Feasible)

If the existing drain pipe cannot be removed (for example, in an existing installation):

1. Remove the overflow plug.
2. Carefully route the heating cable through the overflow opening.
3. Ensure that the heating cable does not obstruct condensate flow.
4. Reinstall and seal the overflow plug.

CAUTION

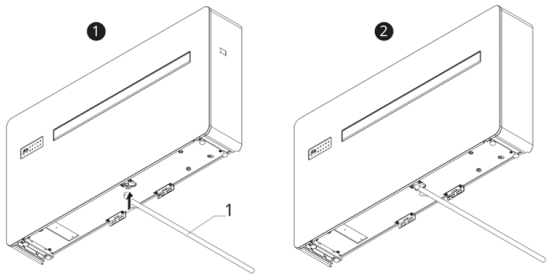
Improper routing of the heating cable may restrict drainage and cause condensate backup. Verify unobstructed condensate flow before returning the unit to service.

4.3 Installation of condensate drain pipe heater kit

To install the condensate drain pipe heater kit:

1. Cut the included drain pipe to the required length based on the wall depth.
2. Insert the heating cable into the drain pipe.
3. Close the drain pipe end with the end cap.
4. Attach the clamp to the cap.

Figure 4. Attaching the condensate drain pipe to the appliance



1	Silicone drain pipe

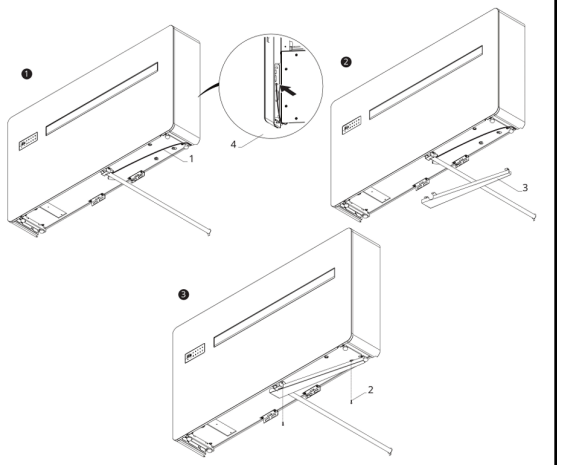
5. Use the U-clamp from the kit to attach the condensate drain pipe to the unit. Route any unused cable through the metal raceway.

5. ELECTRIC CONNECTIONS

⚠ WARNING

- To reduce the risk of electrocution, always disconnect the main circuit breaker before making electric connections or performing any maintenance on the units.
- Access to the electrical panel is only permitted for trained HVAC technicians.
- Before carrying out any work, ensure that the power supply is disconnected.

Figure 5. Connecting the heater cable



1	Heater cable	3	Metal raceway
2	Fixing screws	4	Rear view of the terminal block

To connect the heater cable:

1. Connect the heater cable to the appropriate terminal at the back of the unit on the right (see the AIO® Wall Mounted product data sheet for connection details).
2. Route the heater cable through the metal raceway.

6. DISPOSAL

Figure 6. Disposal



The symbol on the product or packaging indicates that the product must not be treated as normal household waste; it must be taken to the appropriate collection point for recycling used electrical and electronic equipment and batteries.

Proper disposal of this product avoids harm to humans and the environment and promotes the reuse of valuable raw materials.

For more detailed information about the recycling of this product, contact your local authority or your household waste disposal service.

⚠ WARNING

- Avoid disassembling the unit yourself. Contact INNOVA VIP to have the unit disassembled.

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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MADE IN ITALY

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