AIO® Wall Mounted and Wall Mounted Pro (Gen 1)

User Guide



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AIO® WALL MOUNTED (GEN 1)

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.

⚠ WARNING

Only qualified professionals should install and service this equipment. Improper installations or modifications by an unqualified person could result in death or serious injury. When working on any equipment, observe all precautions in the installation manual, as well as on labels attached to the equipment.

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CONTENTS

1. SAFETY....4
1.1 Safety and warnings....4
2. BASIC OPERATIONS....5
2.1 Overview....5
Cool....5
Heat....5
Auto....5
Dehumidify....5
Fan Only....5
2.2 Selecting fan speed....5
2.3 Timer....6
2.4 Sleep Mode....6
2.5 Air Louvers....6
2.6 Touch-Screen Display Key Lock....6
3. MAINTENANCE....7
3.1 Overview....7
3.2 Energy-saving suggestions....7
3.3 Cleaning the condensate drain components....7
3.4 Cleaning the filters....7
3.5 Cleaning the cabinet....8
3.6 Cleaning the exterior louvers....8
3.7 Cleaning the coils....8
4. SPECIAL PROGRAMMING....9
4.1 Overview....9
4.2 Condensate disbursement system....9
4.3 LED display brightness....10
4.4 Heat/Cool only....10
4.4.1 Heating Only Mode....10
4.4.2 Cooling Only Mode....10
4.5 Resetting the WiFi....11
4.6 Disabling the WiFi....11
4.7 Resistance heating....11
4.8 Fahrenheit/Celsius....11
5. FUNCTIONALITY....12
5.1 Overview....12
5.2 Auto Mode....12
5.3 Power failure restart....12
5.4 Cooling/Heating Changeover....12
5.5 Cooling Mode....12
5.6 Heating Mode....12
5.7 Reverse cycle defrost....13
5.8 Resistance heating....13
5.9 Condensate Disbursement System....13
6. NOMENCLATURE....14
7. TROUBLESHOOTING....14
7.1 Overview....14
7.2 Normal occurrences....14
7.3 Problems....15
7.4 Emptying condensate tray....15
7.5 Error Code....15
8. SERVICE AND ASSISTANCE....16
8.1 Overview....16

1. SAFETY

1.1 Safety and warnings

We have provided many important safety messages in this guide for your AIO® unit. Always read and adhere to all safety messages. **For your safety, the information in this guide must be followed to minimize the risk of fire, explosion, electrical shock, and to prevent property damage, personal injury, or death.**

- Read the guide thoroughly prior to operating the AIO® unit.
- Save this guide.
- Incorrect operation due to ignoring the instructions can cause harm, damage, or even death.

⚠CAUTION

The LCDI device is not intended to be used as a switch. Do not use the TEST and RESET buttons to turn the AIO® unit on or off.

⚠WARNING

- Please read this guide thoroughly prior to operation. Failure to do so can result in damage to the unit, damage to property, personal injury, or death.
- All safety messages will provide information about the potential hazard, how to reduce the chance of injury, and what may happen if the instructions are not followed. **Be sure to follow all instructions.**

⚠WARNING

- If you suspect a refrigerant leak, open all windows and doors to ventilate the area, and contact an HVAC professional immediately.
- Do not pierce or burn the unit.
- Do not operate the AIO® where explosive gases develop or where humidity and temperature levels exceed the maximum allowed in the specifications. Otherwise, it may cause an explosion and a fire. Make sure to ventilate the room well when using the AIO® together with a stove or other such appliance. Failure to follow this warning can result in property damage, injury, and/or death.

⚠WARNING

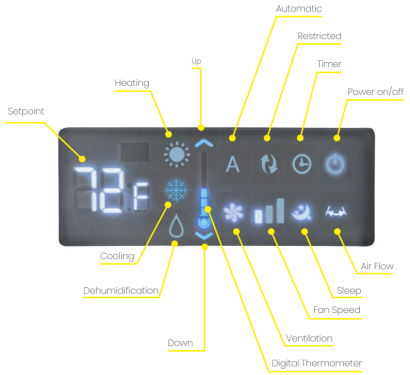
- Do not sit, lean, or place anything on top of the AIO® unit. Do not place the unit in or near any liquids. Doing so could cause a short-circuit, damage the AIO® unit, and/or expose the user to the risk of electrocution. Failure to follow this warning can result in property damage, injury, and/or death.
- If your LCDI device fails to trip when tested, or if the power supply cord is damaged, it must be replaced with a new LCDI power supply cord obtained from INNOVA. Do not attempt to repair the LCDI power cord yourself. Failure to follow this warning can result in property damage, injury, and/or death.
- Young children should be supervised to ensure that they do not play with the AIO® unit. The AIO® unit is not intended for use by young children. Failure to follow this warning can result in property damage, injury, and/or death.

⚠WARNING

- Do not insert hands or other objects through the air inlets during operation. Electrical and moving parts can cause shock and injury. Failure to follow this warning can result in property damage, injury, and/or death.
- Do not place the power supply cord near a heater, because it may cause a fire and an electric shock. Failure to follow this warning can result in property damage, injury, and/or death.
- Do not touch the power supply cord or the AIO® with wet hands or use it in a damp environment, as it may cause a fire or electrical shock. To avoid damage or electrical shock, unplug the unit by holding the end of the power plug. Failure to follow this warning can result in property damage, injury, and/or death.
- Do not operate or stop the AIO® by inserting or pulling out the power plug. It may cause an electric shock and damage the AIO®. Failure to follow this warning can result in property damage, injury, and/or death.
- Do not alter the power supply cord or power plug. Do not use an extension cord. Failure to follow this warning can result in property damage, injury, and/or death.
- Do not place objects on the power supply cord. Protect the power supply cord from being pinched or damaged. Damage from such actions may cause a fire or an electric shock. Failure to follow this warning can result in property damage, injury, and/or death.

2. BASIC OPERATIONS

Figure 1. Onboard Touch Controller



❄	**Cool** Lets you cool the space according to the set temperature, and dehumidifies and filters the air.
☀	**Heat** Lets you heat the space according to the set temperature, and filters the air.
A	**Auto** Lets you set a target temperature, and AIO® will automatically cool or heat the space as needed to maintain that temperature. This function also dehumidifies and filters the air.
✻	**Fan Only** Circulates and filters the air without affecting the temperature.`
💧	**Dehumidify** Removes humidity (moisture) from the space and filters the air, providing a slight cooling effect. This mode is useful during the spring and fall when the temperature is pleasant; however, excess humidity may cause discomfort. This mode ignores both room temperature and fan speed settings. The fan operates only at low speed. It is normal for the AIO® to work intermittently.
⏻	**Power On/Off** Power the AIO® on or off (standby) by pressing ⏻. The control system of the AIO® is equipped with memory, so settings will not be lost if the AIO® is turned off or there is a loss of power. The Power button is used to activate or deactivate the AIO® for short time periods only. In the case of long periods of inactivity, the AIO® must be unplugged from the grounded three-prong electrical power outlet.

2.1 Overview

The onboard touch controller lets you select from five operational modes, giving you complete control of the climate for the space in which it is installed.

❄ Cool

In this cooling mode, the AIO® cools and dehumidifies the room.

1. If AIO® is off, press the ⏻ button once to turn it on. (Pressing the button again turns AIO® off.)
2. To activate cooling mode, press and hold ❄ for 5 seconds.
3. The ❄ button will remain lit.
4. Use the ^ up and v down arrows to set the desired temperature between 61°F (16.1°C) and 87°F (30.6°C).
5. Set the fan speed by pressing the ✻ button until the desired speed is displayed. For more instructions about fan speed, see Selecting Fan Speed.

☀ Heat

In heating mode, the AIO® heats the room. The fan operates only when the unit is actively heating.

1. If AIO® is off, press the ⏻ button once to turn it on. (Pressing the button again turns AIO® off.)
2. To activate heating mode, press and hold ☀ for 5 seconds.
3. The ☀ button will remain lit.
4. Use the ^ up and v down arrows to set the desired temperature between 61°F (16.1°C) and 87°F (30.6°C).
5. Set the fan speed by pressing the ✻ button until the desired speed is displayed. For more instructions about fan speed, see Selecting Fan Speed.

> At startup, it can take up to three minutes for the AIO® to start supplying warm air.

A Auto

In this mode, the AIO® automatically selects the mode (Cooling or Heating) according to the temperature setting and adjusts the fan speed.

- To activate automatic mode, press and hold A for 5 seconds.
- To deactivate, simply press and hold ❄ for cooling or ☀ for heating.

💧 Dehumidify

In dehumidification mode, the AIO® dehumidifies the room.

1. To activate dehumidification mode, press and hold 💧 for 5 seconds.

✻ Fan Only

In fan-only mode, the fan circulates the air in the room. The fan speed can be adjusted to Low, Medium, and High.

1. If AIO® is off, press the ⏻ button once to turn it on. (Pressing the button again turns AIO® off.)
2. To activate fan-only mode, press and hold ✻ for 5 seconds.
3. The ✻ button will remain lit.
4. Set the fan speed by pressing the ✻ button until the desired speed is displayed. For more instructions about fan speed, see Selecting Fan Speed.

> The AIO® will not cool, heat, or dehumidify in this mode.

2.2 Selecting fan speed

When the unit is operating on fan only, cool, heat, or automatic, you can adjust the fan speed by pressing the ✻ button until the fan speed display is at the desired speed:

- To select Low, press the ✻ button until ▂ appears.
- To select Medium, press the ✻ button until ▄ appears.

- To select High, press the button until appears.
- To select Auto, press the button until appears.

Text will also appear that indicates the fan speed.

2.3 Timer

The timer allows a one-time scheduled start or stop of the AIO® unit.

If AIO® is on and you want to turn it off at a later time:

1. While AIO® is operating, press the button.
2. Use the keys to select how many hours from the current time that you want the unit to turn off.
3. Press the button again to confirm your selection.

If AIO® is off and you want to turn it on at a later time:

1. While the unit is operating, press the button.
2. Use the keys to select how many hours from the current time that you want the unit to turn off.
3. Press the button again to confirm your selection.

Once your selection is confirmed, the display will temporarily show the temperature mode and fan speed that will be working when the timer activates. The timer button will remain lit.

To reset the timer, set the digits to 00.

2.4 Sleep Mode

While the unit is in cooling or heating mode (sleep mode will not work in automatic mode), Sleep mode operates at a lower noise level and saves energy. This mode may be activated before going to sleep.

In Cooling Mode: The fan is set to low, and the temperature will automatically increase by 1.5°F (0.8°C) after the first hour and then by 1.5°F (0.8°C) after the second hour. After eight hours, the unit will automatically turn off.

In Heating Mode: The fan is set to low, and the temperature will automatically lower by 1.5°F (0.8°C) after the first hour and then by another 1.5°F (0.8°C) after the second hour. After eight hours, the unit will automatically turn off.

To activate the sleep function:

1. With AIO® operating, press the button. The button will remain lit,
2. Use the keys to set the number of hours you wish the unit to run.

To deactivate the sleep function:

1. Pressing the button again disables the sleep function.

2.5 Air Louvers

AIO® is equipped with a louver that can be set to fixed or oscillate. When set to oscillate mode, the louver will sweep up and down to provide better airflow. When turned off, the louvers remain in the last position it was in when the louver button was pressed.

1. To oscillate the louvers, press the button. The button will remain lit.
2. To disable the oscillating function, press the button again when the louvers are in the desired position.

2.6 Touch-Screen Display Key Lock

In Touch-Screen Display Key Lock mode, the user cannot perform any actions from the touch-screen control panel. This is a useful safety feature to prevent children from playing with the controls. The Touch-Screen Display Key Lock mode also inhibits the action from the wireless remote control and is maintained even in the event of a power failure.

When Touch-Screen Display Key Lock mode is active, will constantly flash, confirming that the Touch-Screen Display Key is enabled.

Activate display key lock

1. If the unit is not actively working (either in auto, heat, cool, dehumidify, or fan only), press to turn the unit on, so that the display is active.
2. Press and hold for 5 seconds.
3. Wait ten (10) seconds for the system to memorize the change. When ready, the display will return to the default display by itself.

Deactivate display key lock

1. If the unit is not actively working (either in auto, heat, cool, dehumidify, or fan only), press to turn the unit on, so that the display is active.
2. Press and hold for 5 seconds
3. Wait ten (10) seconds for the system to memorize the change. When ready, the display will return to the default display by itself.

3. MAINTENANCE

3.1 Overview

The unit has been designed to keep maintenance operations to a minimum. Keeping the unit clean and well-maintained will provide many years of trouble-free service.

Always follow these steps before any maintenance or cleaning:

1. Turn the unit off by pressing ⏻.
2. Unplug the unit from the three-prong electrical power outlet.
3. Wait one hour for the unit to cool down.

⚠ WARNING

- Do not attempt to accelerate the defrosting process or to clean the unit in any manner other than those specifically recommended by the manufacturer.
- Failure to follow this warning can result in property damage, injury, and/or death.

⚠ WARNING

- Do not pierce or burn. Be aware that refrigerants may not have an odor.
- Failure to follow this warning can result in property damage, injury, and/or death.

3.2 Energy-saving suggestions

The AIO® unit is extremely efficient and features a state-of-the-art inverter compressor. Here are a few energy-saving tips to keep your AIO® running at peak performance while using minimum energy.

- Carefully read and follow the installation instructions.
- Always keep the filters clean (see the Maintenance and Cleaning chapter).
- Have the unit professionally inspected and cleaned by an authorized technician every year, or every other year, depending on the frequency of use.
- Keep the doors and windows of the rooms closed while the unit is operating (unless operating with a stove top).
- Proper insulation helps the unit maintain the desired inside temperature.
- Do not let direct sunlight enter the room (use curtains or lower the blinds) while AIO® is operating, using shade wherever possible.
- Consider installing window tinting, which can greatly reduce the amount of heat entering a room, thereby reducing the cooling load.
- Do not block the supply and return airflow grilles of the unit; not only will this result in non-optimal performance of the unit, but it may also cause damage and void the warranty.
- Keep window coverings away from the unit to ensure free air flow.

3.3 Cleaning the condensate drain components

To ensure optimal performance and prevent the buildup of zooglea, clean the following components at least once every six months, or more frequently if environmental conditions warrant it:

- Upper drain pan
- Lower drain pan
- Upper condensate collection box (located beneath the upper drain pan)
- Condensate pump (located above the lower drain pan)

Use a coil-safe drain line cleaner, such as Valterra PowerMax, to perform the cleaning safely and effectively.

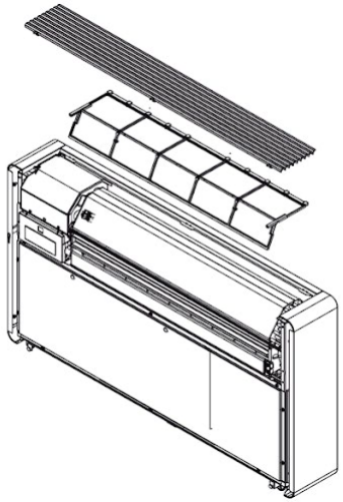
3.4 Cleaning the filters

To maintain optimal performance, clean the filter at least once a month. Clogged and dusty filters reduce the cooling and heating capability, restrict airflow, and can lead to extensive damage to the unit. In extreme cases, clogged filters may create a fire hazard and will void the warranty. Keeping the filters clean saves energy and will reduce the risk of component failure.

Cleaning the filters

1. Turn off the unit, unplug the power cord, or turn off the breaker and wait one hour for the unit to cool down.
2. Lift the return air grille on the top by pulling it toward yourself and then lifting it up.
3. Remove the filter.
4. Remove the dust from the filter with a vacuum cleaner, or by washing it in running water (without using detergents or solvents), and leave to dry.
5. Replace the cleaned filter on top of the coils, taking care to position it correctly.
6. Replace the return air grille.

Figure 2. Cleaning the filters



⚠WARNING

- The LCDI device is not intended to be used as a switch. Do not use the TEST and RESET buttons to turn the unit on and off.

⚠WARNING

- When the unit is in the OFF position, there is still voltage to the electrical controls. Disconnect the power to the unit before servicing to avoid electric shock or damage to the unit by removing the power supply cord from the wall power outlet or by disconnecting the circuit breaker or fuses.
- Failure to follow this warning can result in property damage, injury, and/or death.

⚠WARNING

- To avoid property damage, we clean filters and coils regularly. Clogged or severely restricted filters or coils reduce airflow, which can cause drastic efficiency loss as well as severe component damage to the compressor, electric heater, and fan motors.
- In extreme cases, clogged filters and/or coils may create a fire hazard and will void the warranty.

⚠CAUTION

- Do not use the unit without its filter, or you will cause damage.

3.5 Cleaning the cabinet

When cleaning the unit cabinet, make sure to follow the steps below:

1. Turn off the unit, unplug the power cord, or turn off the breaker and wait one hour for the unit to cool down.
2. Gently wipe down the cabinet using a slightly damp cloth. Gently wipe down the return air grille using a slightly damp cloth.
3. Gently wipe down the supply air louver using a slightly damp cloth.

⚠WARNING

- When the unit is in the OFF position, there is still voltage to the electrical controls. Disconnect the power to the unit before servicing, to avoid electric shock or damage to the unit by removing the power supply cord from the wall power outlet or by disconnecting the circuit breaker or fuses.
- Do not insert hands or other objects through the air inlet during operation.
- Failure to follow this warning can result in property damage, injury, and/or death.

3.6 Cleaning the exterior louvers

Inspect the exterior grilles or louvers and the vent pipes periodically (annually or semi-annually) and clean as required. Under extreme conditions, more frequent cleaning may be necessary.

Do not use wax, solvents, or hydrocarbon-based cleaners such as acetone to clean the louvers. Use a slightly damp (not wet) cloth when cleaning the louvers.

Cleaning the exterior louvers

1. Turn off the unit, unplug the power cord, or turn off the breaker and wait one hour for the unit to cool down.
2. Clean off the louvers with an antibacterial and anti-fungal cleaner.
3. Check the vent pipes and clean if needed.

⚠WARNING

- When the unit is in the OFF position, there is still voltage to the electrical controls. Disconnect the power to the unit before servicing to avoid electric shock or damage to the unit by removing the power supply cord from the wall power outlet or by disconnecting the circuit breaker or fuses.
- Do not insert hands or other objects through the air inlet during operation.
- Failure to follow this warning can result in property damage, injury, and/or death.

3.7 Cleaning the coils

The AIO® unit's indoor and outdoor coils and base pan should be inspected periodically (annually or semiannually) and cleaned as necessary. Under extreme conditions, more frequent and/or professional cleaning may be required. Do not attempt to clean dirty coils yourself unless you have experience, or you may damage the coils.

In extreme cases, dirty coils may create a fire hazard and will void the warranty.

Cleaning the coils

1. Turn off the unit, unplug the power cord, or turn off the breaker and wait one hour for the unit to cool down.
2. Remove the cover from the front and rear of the unit to inspect the coils and base pan.
3. Clean of all debris (lint, dirt, leaves, paper, etc.).
4. Clean the coils and base pan with a soft brush and compressed air or vacuum. A pressure washer may also be used. However, you must be careful not to bend the aluminum fins. Do not use a caustic (harsh) coil cleaning agent on coils or the base pan. Use a biodegradable cleaning agent and degreaser. The use of harsh cleaning materials may lead to deterioration of the aluminum fins or the coil end plates.

5. Use a sweeping up and down motion, in the direction of the vertical aluminum fins, when pressure-cleaning coils. It is extremely important to ensure that none of the electrical and/or electronic parts of the unit get wet. Be sure to cover all electrical components to protect them from water or spray.
6. Replace the front and rear covers after the coils and pan have been cleaned.

⚠CAUTION

Do not attempt to clean dirty coils yourself unless you have experience, or you may damage the coils.

⚠WARNING

- Do not use water to clean inside the unit. Exposure to water can destroy the insulation, leading to a possible electric shock.
- It is extremely important to ensure that none of the electrical and/or electronic parts of the unit gets wet. Be sure to cover all electrical components to protect them from water or spray. It may cause an electric shock and damage the unit.
- When the unit is in the OFF position, there is still voltage to the electrical controls. Disconnect the power to the unit before servicing, to avoid electric shock or damage to the unit by removing the power supply cord from the wall power outlet or by disconnecting the circuit breaker or fuses.
- Failure to follow this warning can result in property damage, injury, and/or death.

⚠WARNING

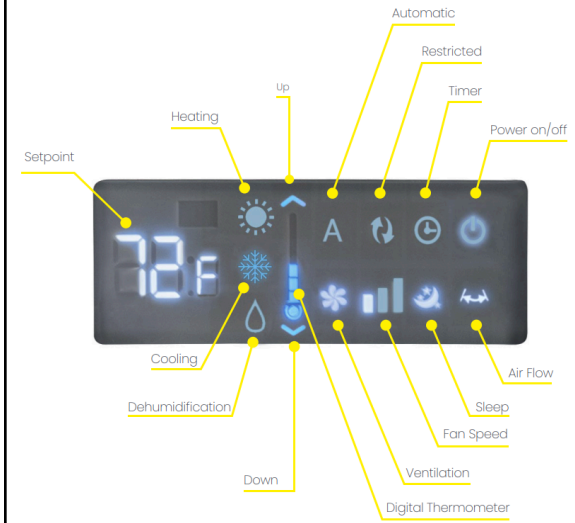
- To avoid property damage, clean filters and coils regularly. Clogged or severely restricted filters or coils reduce airflow, which can cause drastic efficiency loss as well as severe component damage to the compressor, electric heater, and fan motors.
- In extreme cases, clogged filters and/or coils may create a fire hazard and will void the warranty.

4. SPECIAL PROGRAMMING

4.1 Overview

AIO® is a sophisticated system that can be modified to suit specific scenarios. Special programming is achieved by pressing specific icons on the touch controller. Follow the instructions in this section to make changes to the system.

Figure 3. Special Programming



4.2 Condensate disbursement system

There is a thermo-actuator mounted on the lower drain of 2.0, which can be set to be left open in cooling instead of closed, allowing the condensation to flow down the external drain instead of using the pump and disbursement system. Follow the steps below to deactivate or reactivate.

Explanation of Codes: dS = Pump is disabled, En = Pump is enabled.

Deactivate the pump & disbursement system

1. If the unit is not actively working (either in auto, heat, cool, dehumidify, or fan only), press ⏻ to turn the unit on, so that the display is active.
2. Press and hold ❄ until either dS or En appears on the display.
3. When ❄ is pressed again, it will cycle between dS and En each time ❄ is pressed. Repeat pressing ❄ until dS appears on the display.
4. When dS appears on the display, do not press any more buttons. Wait ten (10) seconds for the system to memorize the change. When ready, the display will return to the default display by itself.

Reactivate the pump & disbursement system

1. If the unit is not actively working (either in auto, heat, cool, dehumidify, or fan only), press ⏻ to turn the unit on, so that the display is active.
2. Press and hold ❄ until either dS or En appears on the display.
3. When ❄ is pressed again, it will cycle between dS and En each time ❄ is pressed. Repeat pressing ❄ until En appears on the display.
4. When En appears on the display, do not press any more buttons. Wait ten (10) seconds for the system to memorize the change. When ready, the display will return to the default display by itself.

4.3 LED display brightness

AIO® is equipped with a brightness feature that enables the LED display to dim when the room is darkened. This is helpful for bedrooms, where the bright display may disturb sleepers. The display brightness sensor can be disabled, leaving the maximum brightness at all times.

Explanation of Codes: dS = Display brightness sensor is disabled. En = Display brightness sensor is enabled.

Deactivate the display brightness sensor

1. If the unit is not actively working (either in auto, heat, cool, dehumidify, or fan only), press ⏻ to turn the unit on, so that the display is active.
2. Press and hold 🌙 until either dS or En appears on the display.
3. When 🌙 is pressed again, it will cycle between dS and En each time 🌙 is pressed. Repeatedly press 🌙 until dS appears on the display.
4. When dS appears on the display, do not press any more buttons. Wait ten (10) seconds for the system to memorize the change. When ready, the display will return to the default display by itself.

Reactivate the display brightness sensor

If the unit is not actively working (either in auto, heat, cool, dehumidify, or fan only), press ⏻ to turn the unit on, so that the display is active.

1. Press and hold 🌙 until either dS or En appears on the display.
2. When 🌙 is pressed again, it will cycle between dS and En each time 🌙 is pressed. Repeat pressing 🌙 until En appears on the display.
3. When En appears on the display, do not press any more buttons. Wait ten (10) seconds for the system to memorize the change. When ready, the display will return to the default display by itself.

4.4 Heat/Cool only

4.4.1 Heating Only Mode

With a simple procedure, it is possible to lock AIO® to heating-only mode.

Explanation of Codes: HC = Heat and cool mode. Co = Cool only mode Ho = Heat only modes.

Activate the heating only mode

1. If the unit is not actively working (either in auto, heat, cool, dehumidify, or fan only), press ⏻ to turn the unit on, so that the display is active.
2. Press and hold A until either HC, Ho, or Co appears on the display.
3. When A is pressed again, it will cycle between HC, Ho, or Co each time A is pressed. Repeatedly press A until Co appears on the display.
4. When Ho appears on the display, do not press any more buttons. Wait ten (10) seconds for the system to memorize the change. When ready, the display will return to the default display by itself.

Deactivate heating only mode

1. If the unit is not actively working (either in auto, heat, cool, dehumidify, or fan only), press ⏻ to turn the unit on, so that the display is active.
2. Press and hold A until either Ho appears on the display.
3. When A is pressed again, it will cycle between HC, Ho, or Co each time A is pressed. Repeatedly press A until HC appears on the display.
4. When HC appears on the display, do not press any more buttons. Wait ten (10) seconds for the system to memorize the change. When ready, the display will return to the default display by itself.

4.4.2 Cooling Only Mode

With a simple procedure, it is possible to lock AIO® to cooling-only mode.

Explanation of Codes: HC = Heat and cool mode. Co = Cool only mode Ho = Heat only modes.

Activate the heating only mode

1. If the unit is not actively working (either in auto, heat, cool, dehumidify, or fan only), press ⏻ to turn the unit on, so that the display is active.
2. Press and hold A until either HC, Ho, or Co appears on the display.
3. When A is pressed again, it will cycle between HC, Ho, or Co each time A is pressed. Repeatedly press A until Co appears on the display.
4. When HC appears on the display, do not press any more buttons. Wait ten (10) seconds for the system to memorize the change. When ready, the display will return to the default display by itself.

Deactivate heating only mode

1. If the unit is not actively working (either in auto, heat, cool, dehumidify, or fan only), press ⏻ to turn the unit on, so that the display is active.
2. Press and hold A until either HC, Ho, or Co appears on the display.
3. When A is pressed again, it will cycle between HC, Ho, or Co each time A is pressed. Repeatedly press A until HC appears on the display.
4. When HC appears on the display, do not press any more buttons. Wait ten (10) seconds for the system to memorize the change. When ready, the display will return to the default display by itself.

4.5 Resetting the WiFi

With a simple procedure, it is simple to reset the WiFi.

Explanation of Codes: On = WiFi enabled. oFF = WiFi disabled. rSt = Reset WiFi.

Resetting the WiFi

1. If the unit is not actively working (either in auto, heat, cool, dehumidify, or fan only), press ⏻ to turn the unit on, so that the display is active.
2. Press and hold ⏻ until either On, oFF, or rSt appears on the display.
3. When ⏻ is pressed again, it will cycle between On, oFF, or rSt each time ⏻ is pressed. Repeat pressing ⏻ until rSt appears on the display.
4. When rSt appears on the display, do not press any more buttons. Wait ten (10) seconds for the system to memorize the change. When ready, the display will return to the default display by itself.

4.6 Disabling the WiFi

With a simple procedure, it is simple to disable the WiFi.

Explanation of Codes: On = WiFi enabled. oFF = WiFi disabled. rSt = Reset WiFi.

Disabling WiFi

1. If the unit is not actively working (either in auto, heat, cool, dehumidify, or fan only), press ⏻ to turn the unit on, so that the display is active.
2. Press and hold ⏻ until either On, oFF, or rSt appears on the display.
3. When ⏻ is pressed again, it will cycle between On, oFF, or rSt each time ⏻ is pressed. Repeatedly press ⏻ until oFF appears on the display.
4. When oFF appears on the display, do not press any more buttons. Wait ten (10) seconds for the system to memorize the change. When ready, the display will return to the default display by itself.

Re-Enabling WiFi

1. If the unit is not actively working (either in auto, heat, cool, dehumidify, or fan only), press ⏻ to turn the unit on, so that the display is active.
2. Press and hold ⏻ until either On, oFF or rSt on the display.
3. When ⏻ is pressed again, it will cycle between On, oFF, or rSt each time ⏻ is pressed. Repeatedly press ⏻ until On appears on the display.
4. When HC appears on the display, do not press any more buttons. Wait ten (10) seconds for the system to memorize the change. When ready, the display will return to the default display by itself.

4.7 Resistance heating

With a simple procedure, the resistance heating (for models that have a resistance heat strip) can be activated and deactivated.

Explanation of Codes: Fh =Heat pump only. Fo = Fan coil only. rE = Resistant heat + heat pump.

Activate resistance heat

1. If the unit is not actively working (either in auto, heat, cool, dehumidify, or fan only), press ⏻ to turn the unit on, so that the display is active.
2. Press and hold ☀ until either Fh, Fo, or rE appears on the display.
3. When ☀ is pressed again, it will cycle between Fh, Fo, or rE each time ☀ is pressed. Repeatedly press ☀ until rE appears on the display.
4. When rE appears on the display, do not press any more buttons. Wait ten (10) seconds for the system to memorize the change. When ready, the display will return to the default display by itself.

Deactivate the resistance heat

1. If the unit is not actively working (either in auto, heat, cool, dehumidify, or fan only), press ⏻ to turn the unit on, so that the display is active.
2. Press and hold ☀ until rE appears on the display.
3. When ☀ is pressed again, it will cycle between Fh, Fo, or rE each time ☀ is pressed. Repeatedly press ☀ until Fh appears on the display.
4. When Fh appears on the display, do not press any more buttons. Wait ten (10) seconds for the system to memorize the change. When ready, the display will return to the default display by itself.

4.8 Fahrenheit/Celsius

With a simple procedure, it's easy to change between Fahrenheit and Celsius.

Explanation of Codes: °C = Celsius. °F = Fahrenheit.

5. FUNCTIONALITY

5.1 Overview

Understanding how the AIO® unit functions will help one determine if the unit is functioning correctly. There are many complex algorithms that ensure that AIO® will operate properly. The following functions are covered in this section:

- Auto mode
- Power failure restart
- Cooling/heating changeover
- Cooling mode
- Heating mode
- Reverse cycle defrosting
- Electric resistance heat

5.2 Auto Mode

Depending on the setpoint selected, AIO® automatically selects the operating mode (cooling or heating) and the fan speed based on the room temperature as follows.

First, the supply air fan runs for 20 seconds at low speed to measure the room temperature and then decide the operating mode.

Auto-selecting initial mode
Depending on the setpoint selected, AIO® automatically selects the operating mode (cooling or heating) and the fan speed based on the room temperature as follows. Note: If AIO® is actively in heating or cooling mode, AIO® will wait until the compressor has stopped and wait an additional 20 minutes before moving to the new mode.

Current room temp	Mode selected
< 3.6°F (2°C) of Setpoint	Heat
> 3.6°F (2°C)of Setpoint	Cool

Auto-selecting initial fan speed
The initial fan speed is determined based on the following table, and will readjust accordingly during operations.

Current room temp	Mode selected
≤ 1.8°F° (1°C) of Setpoint	Min
> 1.8°F (1°C) to ≤ 5.4°F (3°C) of Setpoint	Medium
> 5.4°F (3°C) of Setpoint	Max

5.3 Power failure restart

Depending on the setpoint selected, AIO® automatically selects the operating mode (cooling or heating) and the fan speed based on the room temperature as follows.

First, the supply air fan runs for 20 seconds at low speed to measure the room temperature and then decides the operating mode.

Timer
If the timer function is active when there is a power failure, the blackout time will not be taken into consideration.

Restarting delay
If the compressor was active before the blackout, it will start 180 seconds after the power returns.

5.4 Cooling/Heating Changeover

AIO® is a heat pump that can cool and heat. Heating is achieved by "reversing the cycle". In simple terms, in cooling mode, the heat pump produces cool air inside and exhausts hot air outside. In heating, the cycle is reversed, and the inside receives hot air and cold air is exhausted outside. When switching from cooling to heating, or vice versa, the system changes, and there is a delay until the heat or cool starts working.

Compressor Delay
When switching the unit between modes or turning on and off, the compressor will wait 180 seconds until it is activated.

4-Way Valve
If the heating mode is switched to cooling, fan only, or dehumidification, the 4-way valve is deactivated (set to cooling cycle) 120 seconds after the compressor is switched off.

If the heating mode is switched back on, the 4-way valve will wait 120 seconds after the compressor has stopped until it is powered (reversing cycle), to enable heating.

5.5 Cooling Mode

Cooling mode can be set from 61°F (16.1°C) to 83°F (28.3°C).

Operations
When in cooling mode, the compressor stays active the entire time and varies the speed to match the required cooling load. The supply air louver will stay open the entire time.

Shutdown
When the unit is turned off, the following steps will occur

1. The supply air louver will close.
2. The condenser fan will remain on until the condenser chamber has cooled down. This can range from 60 to 500 seconds.

5.6 Heating Mode

In heating mode you can select a setpoint between 61°F (16.1°C) and 88°F (31.1°C).

Heat Mode Initial Start-Up
In heating mode in order to avoid cold air entering the room, AIO® starts up according to the steps below:

1. The supply air louver stays closed.
2. The compressor runs for 120 -500 seconds.
3. The internal temperature of the heat exchanger exceeds 86°F (30°C).
4. The supply air louver opens.
5. The supply air fan is activated according to the temperature of the coil, regardless of the selected fan speed. Once the temperature is stabilized, the fan speed will be based on the selected fan speed.

Heat Mode Operating
In heating mode, the supply air louver will close when the HPAC is not actively supplying hot air to the room, and reopen when hot air is needed.

1. When the room temperature is ≥ the set point +1.8°F (1°C), the compressor will stop (if it has been on for at least 3 minutes).

2. The condenser exhaust fan will still remain active for an additional 30 seconds, and the supply air fan will continue to remain active until either the temperature detected by the evaporation probe falls below 86°F (30°C) or 30 seconds has passed, whichever occurs first.
3. In order to balance the pressure when the compressor is not working, 120 seconds after the compressor has stopped, the 4-way valve is deactivated (set to cooling cycle). 5 seconds before the compressor restarts, the 4-way valve is powered (reversing cycle) to enable heating.
4. The supply air fan performs a "sniffing" function for 30 seconds every 90 seconds with the supply air louver remaining closed.

Heat Mode Stopping
After AIO® has been turned off, the unit will go through the following steps:

1. The compressor will turn off.
2. The supply air fan works at minimum speed to dispose of the residual heat until either the temperature detected from the OPT probe falls below 77°F (25°C) or 30 seconds of time has passed, whichever occurs first.
3. The supply air louver closes.
4. The external condenser fan will remain on for up to 120 seconds.

5.7 Reverse cycle defrost

During heating, AIO® periodically defrosts the outdoor heat exchanger coil based on the temperature reading of the ambient temperature probe (on the outdoor heat exchanger coil) and of the condensation probe (on the outdoor heat exchanger coil).

Scenario A To Start Reverse Cycle Defrost
The compressor is active for 10 minutes, and the total operating time is greater than 25 minutes, and any of the following three conditions apply:

1. The outside temperature is ≥ 41°F (5°C) and ≤ 59°F (15°C), and the condensation temperature is ≤ 21°F (-6.1°C) for 5 minutes.
2. The outside temperature is ≥ 21°F (-6.1°C) and ≤ 41°F (5°C), and the condensation temperature ≤ TeS for 5 minutes with TeS = X (outside temperature 18°F (-7.8°C) and X = 0.8 when the outdoor temperature < 32°F (0°C) and X = 0.6 when ≥ 32°F (0°C).
3. The compressor has worked continuously for 3 hours without defrosting, and the condensation temperature remains < 36°F (2.2°C) for 90 seconds.

Scenario B To Start Reverse Cycle Defrost
The compressor is active for 10 minutes, and the total operating time is greater than 60 minutes, and any of the following two conditions apply:

1. If the outdoor temperature is ≤ 21°F (-6.1°C) and the condensation temperature is ≤ 59°F (15°C) for 5 minutes.
2. If the compressor has worked continuously for 3 hours without defrosting, and the condensation temperature remains < 36°F (2.2°C) for 90 seconds.

Steps of Reverse Cycle Defrost

1. The compressor stops.
2. Both the supply air fan and the condenser exhaust fan stop.
3. The supply air louver closes.
4. The 4-way valve is reversed.
5. The compressor restarts.
6. The compressor runs with a fixed speed and fixed EEV position, and the external coil.

Scenarios To End Reverse Cycle Defrost
The minimum duration of the reverse cycle defrosting is 120 seconds, after which any of the following three conditions for ending the defrost cycle are met:

1. The condensation temperature remains > 59°F (15°C) for more than 60 seconds.
2. The condensation temperature remains > 68°F (20°C) for more than 10 seconds.
3. The cycle reaches the maximum allowed time of 8 minutes.

Steps of End Reverse Cycle Defrost

1. The compressor stops.
2. The 4-way valve goes in heating.
3. The compressor starts.
4. The condenser exhaust fan starts.
5. The internal coil temperature is checked, and when the temperature is ok, the supply air fan starts.
6. The supply air louver is opened.

5.8 Resistance heating

In models with resistance heat strips, the heat pump works in sync (or is replaced) by a resistance heat strip, which automatically activates when the heat pump's output is insufficient, or upon startup, in order to bring the room to the desired temperature as quickly as possible.

After the resistance heat strip switches off, the supply air fan will remain active for 90 seconds to dissipate the residual heat.

Resistance Heat Activation
The resistance heat strip will activate only when all of the following conditions apply:

1. The compressor has been running for 30 seconds.
2. The room temperature is ≤ 75°F (23.9°C).
3. The indoor heat exchanger is ≤ 111°F (43.9°C).
4. The room is < 3.6°F (2°C) below the setpoint.

Resistance Heat Deactivation
The resistance heat strip will deactivate when any of the conditions apply:

1. The room reaches either the setpoint or ≥ 77°F (25°C).
2. The indoor heat exchanger reaches ≥ 117°F (47.2°C).
3. The EC motor of the supply air fan stops.

5.9 Condensate Disbursement System

The condensate disbursement system enables the unit to work more efficiently in cooling mode by throwing the condensate on the heat exchanger, lowering the temperature of the heat exchanger. The vapor is then exhausted through the external vent, alleviating the need for a drain.

This system consists of 4 components: The drain pan valve, which keeps the condensate in the drain pan so

it can be distributed. The pump, which brings the condensate up to the mister. The mister drips the condensate onto the heat exchanger. The safety float, which makes sure the drain pan does not overflow.

This system is only active in the cooling and dehumidifying modes.

The condensate disbursement system can be disabled, and the condensate will drain to the connected external drain pipe. To disable the condensate disbursement system, follow the instructions on page 48.

Pump Operation

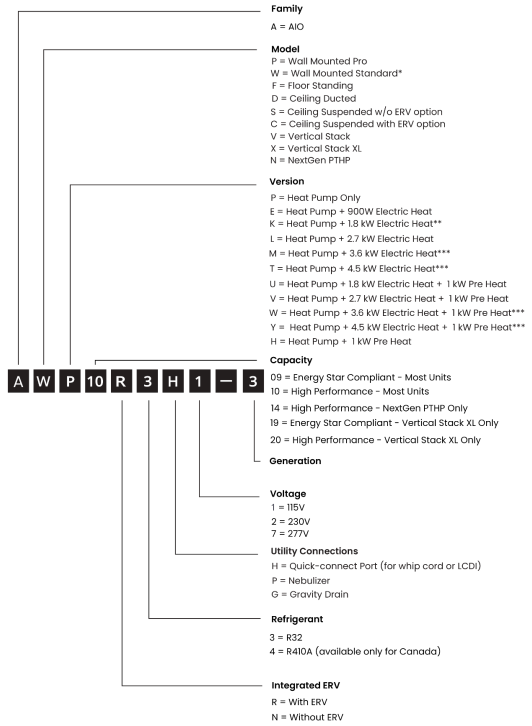
The pump operates continuously at varying speeds based on the float level. If there are more than 300 seconds of operations at maximum speed, the compressor speed is reduced to the minimum frequency, and the condenser exhaust fan speed is increased in order to remove excess condensation.

Safety float control

When the condensate disbursement system is active, the drain pan safety float ensures that the drain pan will not overflow. If the pan is close to the top, the compressor will be stopped, and the condenser exhaust fan will work together with the condensate drain pump to evaporate the condensate until the condensate falls below the level of the float. An OF alarm will appear on the display.

6. NOMENCLATURE

Figure 4. AIO® nomenclature



* 8" Vents : Just generation (e.g. = 3)
6" Vents : Generation + SP (e.g. = 3SP)
** Field convertible to 900W
*** AIO® Vertical Stack XL **Only**

7. TROUBLESHOOTING

7.1 Overview

Understanding how AIO® functions will help one determine if the unit is functioning correctly. There are many complex algorithms that ensure that AIO® will operate properly. The following functions are covered in this section:

- Auto mode
- Power failure restart
- Cooling/heating changeover
- Cooling mode
- Heating mode
- Reverse cycle defrosting
- Electric resistance heat

Do not use your AIO® until it is inspected and certified by an INNOVA technician. Using your unit before certification will **void the warranty.**

7.2 Normal occurrences

The following things are normal and ARE NOT any reason for concern.

Issue	Normal Functionality
Whir	The indoor fan runs continuously when the unit is operating in the cooling mode.
3-Minute Delay	You may notice a few minutes' delay in starting if you try to restart the unit too soon after turning it off, or if you adjust the thermostat right after the compressor has shut off. This is due to a built-in restart protector for the compressor that causes a three-minute delay.
Silence	During the defrost cycle, both the indoor and outdoor fans stop, and the compressor will operate in the cooling mode to remove frost from the outdoor coil. After defrosting, the unit will restart in electric heat to quickly warm the room to the desired comfort level.
AIO® stays on after turning it off	To protect the compressor and prevent short cycling, the unit is designed to run for a minimum of three minutes after the compressor starts at any thermostat setting.

7.3 Problems

In the event of a malfunction, refer to the following table. If, after performing the suggested checks, the problem is not solved, call the Customer Support Call Center for assistance.

Problem	Possible Causes	Solution(S)
AIO® doesn't turn on	No power	Check that there is power to the grounded three-prong electrical power outlet that is powering the unit by plugging in a lamp to the same outlet. Repair the grounded three-prong electrical power outlet or use a different one.
	The fuse is blown/ circuit breaker is tripped	You may notice a few minutes' delay in starting if you try to restart the unit too soon after turning it off, or if you adjust the thermostat right after the compressor has shut off. This is due to a built-in restart protector for the compressor that causes a three-minute delay.
	The unit is unplugged	During the defrost cycle, both the indoor and outdoor fans stop, and the compressor will operate in the cooling mode to remove frost from the outdoor coil. After defrosting, the unit will restart in electric heat to quickly warm the room to the desired comfort level.
	The unit is waiting for the compressor overload protector to reset	To protect the compressor and prevent short cycling, the unit is designed to run for a minimum of three minutes after the compressor starts at any thermostat setting.
	The current interrupter device is tripped	Press the RESET button located on the power supply cord plug or the box near the power plug. If the RESET button does not stay engaged, discontinue use of the unit and contact a qualified service technician.
	Indoor airflow is restricted	Make sure there are no curtains, blinds, or furniture blocking the front of the unit.
	The room may be hot or cold	When the unit is first turned on, you need to allow time for the room to cool down or warm up.
	The heating and cooling load in the room changed	Try to reduce the heating and cooling load of the room by following the instructions below: Cover large windows exposed to sunlight with curtains or blinds. Keep doors and windows closed. Avoid turning on halogen lamps, ovens, steam irons, hot plates, etc.
	The temp control may not be set properly	Turn the control to a lower or higher setting. NOTE: The temperature limiter may be limiting the temperature range.
	The indoor or outdoor heat exchanger is clogged	Have a professional clean the indoor/outdoor heat exchangers.
	Fan is dirty	Clean the filter at least every 30 days.
	The air filter is dirty	Clean the filter at least every 30 days.
Burning odor at the start of heating operation	Dust is on the surface of the heating element	This can cause a "burning" odor at the beginning of the heating operation. The odor should quickly fade.

7.4 Emptying condensate tray

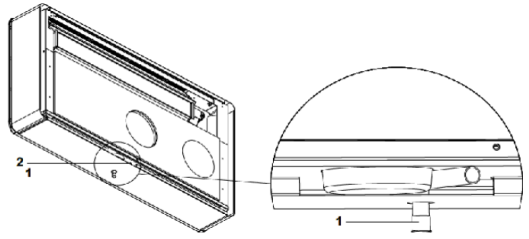
During cooling and dehumidification, an electronic controller maintains the water distribution system by spraying the condensate from the collection pan onto the heat exchanger.

During heating, the unit does not drain the condensate directly into the drain pipe. Instead, it collects into a lightly heated collection pan (to eliminate icing up of the liquid) where a solenoid valve controls the flow of the condensate from the internal collection tray to the drain pipe once the maximum level has been reached.

Should any issue occur in the condensate water system or if the maximum level of water in the pan is reached and the unit is not draining, the OF code will appear on the display. If this occurs in heating mode, check that the condensate drain pipe is not bent or obstructed, thus preventing the water from flowing out.

It is possible to empty the collection pan using the safety drain at the base of the unit if necessary.

Figure 5. Emptying Collection Pan



1. Safety drain to empty pan.
2. Condensation drain duct.

7.5 Error Code

For any error code that remains after resetting the unit and is OK to use, a technician must still be contacted.

Error	Cause	What's Wrong	Possible Solution	Will AIO® Work
E1	The faulty room temperature RT sensor.	Sensor monitoring the antifreeze function of the coil is not working.	Disconnect the power, wait five minutes, and reconnect the power.	Yes
E2	Faulty internal coil IPT sensor.		Disconnect the power, wait five minutes, and reconnect the power.	Yes
E4	Faulty external coil OPT sensor.	Automatic defrosting is not working.	Disconnect the power, wait five minutes, and reconnect the power.	Yes
E5	Faulty internal fan motor.	The fan motor is not working.	None, call for an authorized technician.	No
E6	Faulty external fan	None of the modes can be	Disconnect the power, wait five minutes, and	No

Error	Cause	What's Wrong	Possible Solution	Will AIO® Work
	motor.	activated.	reconnect the power.	
E7	Lack of communication with the display.	The display can't connect to the unit.	Disconnect the power, wait five minutes, and reconnect the power.	No
CP	Open CP contact.	The unit only works if the contact is closed.	Check that the sensors are connected.	No
Of	In cooling/ Dehumidification:Maximum level float	During cooling and dehumidification, a sensor keeps the Water distribution system active with the fan to disperse excess water.	Disconnect the power, wait five minutes, and reconnect the power	No
	In Heating: Maximum level float intervention motor.	During heating, condensation should drain freely through the specific pipe, but the pipe is blocked.	Disconnect the power, check that the condensation pipe is not bent or obstructed, preventing the water from flowing out.	No

8. SERVICE AND ASSISTANCE

8.1 Overview

We want to ensure that you have the best experience possible with your AIO®. In order to accomplish this, we send an INNOVA technician to inspect each AIO® that is installed and certify the installation before the unit is used.

After performing the inspection and certifying that the unit is installed correctly, the INNOVA technician will sign and validate your warranty. Please do not use the unit before certification by an INNOVA technician, or it will void the warranty. If your installer or dealer has not informed you of when an INNOVA technician is scheduled to inspect and certify your new unit(s), please contact us immediately, so we can arrange for an inspection and certification.

Before calling the Customer Support Center for service-related issues, check the troubleshooting charts. This may help you find the answer to your problem, avoid unnecessary service calls, and save you the cost of a service call if the problem is not due to a defect in the unit. If you require further assistance, please call the Customer Support Center.

When calling, please make sure that you have the complete model and serial number, and the date of certification of your AIO® available. By providing us with this information, we will be able to assist you more quickly.

If you have checked the troubleshooting charts and still need assistance, besides dispatching a technician for service, here is a list of services we can also provide for you at our Customer Support Center at toll-free 1-800-381-4200.

- Specifications and features of the unit
- Use and care information
- Recommended maintenance procedures
- Installation information
- Referrals to Authorized Dealers

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

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

MADE IN ITALY

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AIO® Wall Mounted and Wall Mounted Pro **User Guide**