AIO® Wall Mounted (Gen 2)

Product Data Sheet



innova

AHRI CERTIFIED® www.ahridirectory.org
Unitary Small HP
AHRI Standard 210/240

Intertek

ENERGY STAR

CONTACT INFO

VIP Customer/Technical Support
Email: vip@innova.co
Phone: (212) 204-2700

DISCLAIMER

This documentation is intended for informational use only and should not be construed as a binding representation or contract. This documentation is provided "as is" without warranty of any kind, either express or implied. INNOVA and its affiliates disclaim all liability arising from the use or misuse of this documentation.

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.

CERTIFICATIONS & LISTINGS

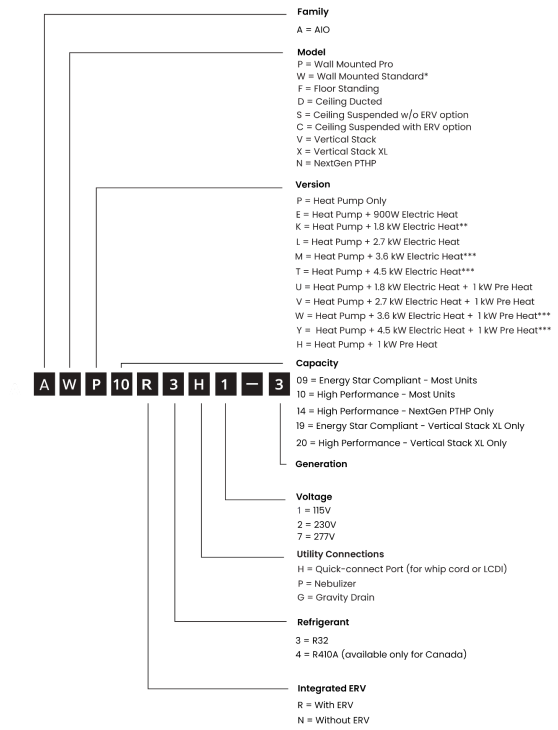
The AHRI Certified® mark indicates INNOVA's participation in the AHRI Certification program. For verification of individual certified products, go to www.ahridirectory.org.

ETL Listed. Control Number: 5032306. Conforms to: UL 60335-2-40:2022 Ed.4 | CSA C22.2#60335-2-40:2022 Ed.4 | UL 60335-1:2016 Ed.6 | CSA C22.2#60335-1:2016 Ed.2

MODEL NUMBER NOMENCLATURE

The code identifies the family, model, version, size, voltage, accessories, refrigerant type, and ERV option. See the diagram below for details.

Figure 1. 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**

AIO® is a registered trademark of INNOVA.
Copyright © 2026 INNOVA. All rights reserved.

CONTENTS

1. READING THIS DOCUMENTATION..... 4

1.1 Documentation-specific language..... 4

1.2 Annotation icons..... 4

2. AIO® WALL MOUNTED (GEN 2) OVERVIEW..... 4

2.1 Components and structure..... 4

2.2 Key Features..... 5

3. AIRFLOW..... 6

3.1 Airflow Operation..... 6

3.2 Airflow Diagram..... 6

4. INSTALLATION REQUIREMENTS..... 6

4.1 Low Ambient Heating Configuration Requirement..... 6

4.2 Cold Climate Condensate Drain Requirement 6

4.3 Site Requirements..... 6

4.4 Louver Specifications..... 7

4.5 Clearance Requirements..... 7

5. ERV, CONTROLLER, AND HEAT TRACE WIRE CONNECTIONS..... 8

6. TECHNICAL SPECIFICATIONS..... 8

6.1 Cooling and heating..... 8

6.1.1 Cooling..... 8

6.1.2 Heating..... 9

6.2 Airflow..... 9

6.2.1 Indoor..... 9

6.2.2 Outdoor..... 9

6.3 Sound..... 9

6.4 General..... 9

6.4.1 Controls..... 9

6.4.2 Modes..... 9

6.4.3 Condensate..... 9

6.4.4 Physical..... 10

6.4.5 Compressor..... 10

6.5 Electrical..... 10

6.5.1 General..... 10

6.5.2 Motors..... 10

6.5.3 LCDI Power cords..... 10

6.5.4 Operating limits..... 11

7. WIRING DIAGRAM..... 11

7.1 AIO® Wall Mounted 115V Wiring Diagram..... 11

7.2 AIO® Wall Mounted 230V Wiring Diagram..... 11

7.3 AIO® Wall Mounted 230V with Heat Strip Wiring Diagram..... 12

8. DIMENSIONS..... 12

9. WARRANTY..... 13

9.1 Basic Coverage..... 13

9.2 Optional Extended Coverage..... 13

9.3 Validation Requirements..... 13

10. WALL MOUNTED MOUNTING TEMPLATE..... 14

10.1 6” Vent Mounting Template..... 14

10.2 8” Vent Mounting Template..... 14

11. SUBMITTALS..... 15

11.1 115V Heat pump only..... 15

11.2 230V Heat pump only..... 16

11.3 230V Heat pump + elec heat..... 17

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" refers to the AIO® Wall mounted (Gen 2) unit.

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

1.2 Annotation icons

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

Indicates critical information for correct operation or installation.

Indicates supplemental information, tips, or useful background information.

2. AIO® WALL MOUNTED (GEN 2) OVERVIEW

AIO® wall-mounted units are slim and sleek. The wall-mounted unit can be mounted high or low with a factory-supplied bracket, making installation quick and simple. An electronically controlled louver with an auto-swing function distributes airflow comfortably and uniformly. Wall-mounted units are ideal for any area with free wall space. The onboard touch controller simplifies use and installation. Special adapters enable the unit to be installed perpendicular to an outside wall, used with many louver styles, or even vented through an existing window frame with no construction required.

2.1 Components and structure

Figure 2. AIO® Wall Mounted (Gen 2) components and structure



1	Return air grille	**10**	Condensate drain pan
2	Washable filter	**11**	Disbursement Pump
3	High-efficiency indoor heat exchanger	**12**	Insulation panel
4	ECM tangential supply fan	**13**	Decorative cover panel
5	Supply air louver	**14**	ECM centrifugal condenser fan
6	Side panel	**15**	Condensate disbursement system
7	BLDC inverter compressor	**16**	Touchscreen controller
8	Black electrical cover	**17**	Outside air intake
9	Outdoor high-efficiency heat exchanger		

2.2 Key Features

No outdoor unit
The single package design means no outdoor unit, freeing up space on rooftops and at ground level and enabling installations in buildings without space for an outdoor unit.

BLDC twin rotary inverter compressor
The state-of-the-art, twin-rotor Brushless DC (BLDC) inverter compressor operates efficiently, quietly, and with minimal vibration. The AIO® unit is ideal for any room or area that requires between 4,000 and 10,500 BTU.

High-efficiency Electronically Commutated Motor (ECM) fans with automatic External Static Pressure (ESP) adjustment
High-efficiency ECM fans enable efficient and quiet operation as the EC motor can ramp up or down depending on the need. Automatically adjusted external static pressure ensures correct airflow.

Cold climate heat pump
The heat pump efficiently functions in temperatures as low as 5°F (-15°C) outdoors.

Optional Energy Recovery Ventilator (ERV) Module
The optional ERV module enables make-up/fresh air in the most efficient method possible.

Optional 1,800-Watt electric heat
The optional electric heating system operates alongside the heat pump when the latter lacks adequate power. This electric heating setup consists of two 900W heaters, strategically staged to optimize efficiency while minimizing the consumption of electric heat. The unit offers configuration options for electric heat usage: it can be set to use no electric heat, 900W electric heat, or 1,800W electric heat, providing flexibility and energy management capabilities.

Intelligent defrosting
The AIO® unit's intelligent defrosting system means more time heating and less time on reverse cycle defrost.

Coil cooling system
The condensate mist system drizzles the condensate on the outdoor heat exchanger coils, lowering the coil's temperature and increasing efficiency and performance.

Quiet
With whisper-quiet operation as low as 27 decibels, the occupant will barely notice that the AIO® unit is operating.

No outside noise infiltration
The AIO® unit has the lowest Sound Transmission Class (STC) and Outdoor-Indoor Transmission Class (OITC) rating among comparable units. This means less outside noise intrudes into the room day and night.

Versatile on/off options
The AIO® unit supports integration with dry contact devices (voltage-free switch inputs used to control the unit's operation). These may include occupancy sensors, open-window switches, on/off remotes, or other compatible control systems. When used, these devices can automatically activate or deactivate the unit as needed.

Minimal clearances and compact footprint
The AIO® unit's compact form with no line sets means there is no need to access the sides of the unit. Mount units with as little as 3 to 4 inches (76.2 to 101.6 mm) of clearance on all sides. Compact footprints take up minimal space.

Leak protection
A drain alarm will activate if the drain becomes clogged, and the system will be shut off, preventing water damage.

Easy to service
The AIO® unit can be easily maintained and repaired from the front and bottom of the unit without having to remove the unit from the wall or ceiling. The AIO® unit can also be quickly swapped out with a replacement, reducing downtime.

Versatile controls
The AIO® unit includes an onboard touch controller and can also be controlled through the optional WiFi module using the Tuya SmartLife app for iOS or Android. The unit is compatible with optional wall-mounted controllers, including a TFT model with a 7-day program and third-party controllers using the optional Third-Party Kit. An optional BACnet and Modbus module enables integration with building management systems (BMS).

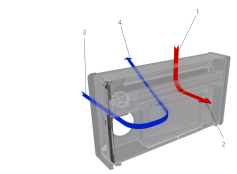
3. AIRFLOW

3.1 Airflow Operation

- **Supply air**
  The supply air is through an electronically controlled louver that can be set at any angle or to continuously oscillate.
- **Return air**
  The return air is on the top through the integrated return air grille and filter.
- **Outside air intake**
  The 8-inch (203.2 mm) outside air intake connection (adaptable to 6-inch [152.4 mm]) works with any of the approved or custom louvers/as long as they comply with the minimum requirements. See INSTALLATION REQUIREMENTS.
- **Outside air exhaust**
  The 8-inch (203.2 mm) round outside air exhaust connection (adaptable to 6-inch [152.4 mm]) works with any of the approved or custom louvers/as long as they comply with the minimum requirements. See INSTALLATION REQUIREMENTS.
- **Sidewall Adapter (Optional)**
  In addition to the typical twin external vents, the AIO® Wall Mounted can attach to a sidewall adapter, enabling mounting on a wall perpendicular to the outside

3.2 Airflow Diagram

Figure 3.



Outside air Recirculate air

1	Room return air	**3**	Outside air intake
2	Supply air	**4**	Exhaust

4. INSTALLATION REQUIREMENTS

Figure 4.



Sidewall install Low-wall install High-wall install

4.1 Low Ambient Heating Configuration Requirement

To configure the unit for electric resistance heating in low ambient conditions:

1. Press and hold **Power** for 10 seconds to enter the **User Menu**.
2. Press and hold **+** and **–** simultaneously for 10 seconds to enter the **Installer Menu**.
3. Use **+** / **–** to scroll to **HE**, then press **Power**.
4. Use **+** / **–** to select **RT**, then press **Power** to save (save icon appears).
5. When returned to the main screen, press **A**, then press **A** again.

This setting shifts the unit to electric resistance heating during low ambient conditions, preventing heat pump operation that may contribute to ice formation.

4.2 Cold Climate Condensate Drain Requirement

For installations in cold or northern climates, a condensate drain line heater is required.

Use of a drain line heater is standard industry practice and is necessary to prevent condensate freezing during low ambient operation. Failure to install a drain line heater may result in ice formation and improper unit operation.

Ambient temperatures below 40°F (4°C) may increase the risk of freezing even when the unit is properly configured.

4.3 Site Requirements

Refer to the installation manual for complete installation requirements and specifications.

- Where practical, avoid installing the unit in a location exposed to direct sunlight. Solar heating may cause the room-air temperature sensor to detect a temperature higher than the actual room temperature, resulting in improper temperature control, unnecessary cooling operation, reduced heating output, and decreased energy efficiency.
- The power supply circuit is installed in accordance with the current edition of NEC (ANSI/NFPA 70) and local codes and ordinances.



- Always consult local and national electrical codes before installing the unit.
- Damage or premature failure of the quoted equipment resulting from improper voltage conditions, inadequate electrical service, or operating the equipment with excessive THD (Total Harmonic Distortion) levels will void the Manufacturer's warranty.
- Do not operate the unit in or near a construction or renovation site. Dust and debris can enter the unit, causing malfunctions and reduced performance.

- Voltage rating of 60 Hz, single phase in 115V or 208/230V in accordance with the model specified.
- All responsible parties must verify that the electrical supply is properly grounded, free of excessive electrical noise, and within the specified voltage and frequency limits before energizing the unit. Failure to correct power quality issues, including voltage instability or electrical noise, may result in equipment damage and will void the warranty for affected components.
- Minimum interior clearances are as follows:
  - Front of unit to any obstructions: 30" (762 mm)
  - Sides of unit to wall: 1" (25.4 mm)
  - Bottom of unit to floor: 3" (76.2 mm)
  - Top of unit to any obstruction: 3.5" (88.9 mm)
- Unblocked vents on the exterior and no obstacles within 36" (914.4 mm).
- An internal drain is highly recommended.
- If using an externally run condensate line:
  - The line must be properly insulated.
  - The line must have a minimum slope of 2%.
  - We strongly recommend that you use a heat trace wire on the line.

4.4 Louver Specifications

The AIO® unit Wall Mounted units can be vented through all kinds of custom and creative solutions. The possibilities are endless, from perforated panels to custom louvers.

There are two critical factors in selecting and sizing a solution that will work with the AIO® unit Wall Mounted units.

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

The minimum required free area is .21 square feet (0.02 m^2) for the intake vent and .21 square feet (0.02 m^2) for the exhaust vent.

- **Pressure drop:** Pressure drop is the resistance the louver/grille creates against the airflow. This resistance can create heat build-up inside the condenser portion, causing the compressor to overheat and shut down. A solution with a higher pressure drop than specified can be utilized by enlarging the louver and plenum until the pressure drop is within specification.

The maximum total pressure for the intake and exhaust louvers combined must be under 0.25" WC (62.3 Pa)

Any louver must meet these requirements, as exceeding these limits can cause the unit to overheat and fail, and void the warranty.

The following louvers are approved for the AIO® unit Wall Mounted:

- **Sunvent:** LLA/C, LLA/F, LLA/S - available through your INNOVA distributor.
- **Thermaduct:** RLA8 - available through your INNOVA distributor.

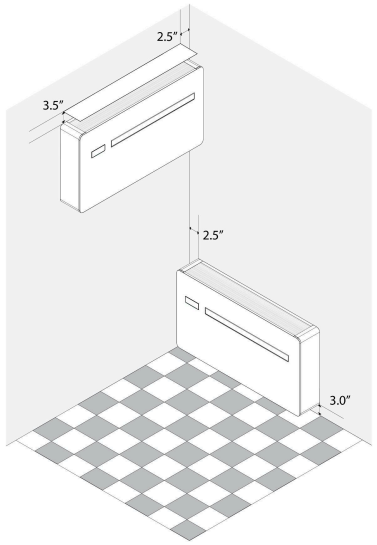
4.5 Clearance Requirements

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

- **Top - low wall mounted**
  There must be 3.5" (88.9 mm) minimum clearance to any surface above, such as a shelf, etc. This is needed for the return airflow. 8" (203.2 mm) of clearance is recommended for ease in changing the filter and servicing the unit.
- **Top - high wall mounted**
  There must be 3.5" (88.9 mm) minimum clearance from the ceiling. This is needed for the return airflow. 8" (203.2 mm) of clearance is recommended for ease in changing the filter and servicing the unit.
- **Bottom**
  There must be a minimum of 3" (76.2 mm) from the floor to eliminate any noise from vibration and allow the floor under the unit to be cleaned.
- **Sides**
  The AIO® unit Wall Mounted unit should not touch the wall on either side as it will vibrate slightly during operation, which may create noise. As little as 1" (25.4 mm) clearance will suffice to eliminate any noise from vibration. A clearance of 2.5" (63.5 mm) on the sides allows for easier access when removing and installing the unit.
- **Front**
  Ensure that no curtains, furniture, plants, or other material is within 30" (762 mm) in front of the unit. The supply air vent is on the front, and blocking it will inhibit the airflow and the unit from working correctly.
- **Rear**
  The rear of the unit must be tightly against the wall, with no gaps between the wall and the unit. Gaps allow outside air to enter, leading to short cycling and increased humidity. If any gaps exist, they must be sealed with insulation.

- **Exterior**
  On the exterior of the building, there should be no obstacles blocking the airflow from the louver. There must be at least 36" (914.4 mm) of free and clear space in front of the louvers.

Figure 5.



5. ERV, CONTROLLER, AND HEAT TRACE WIRE CONNECTIONS

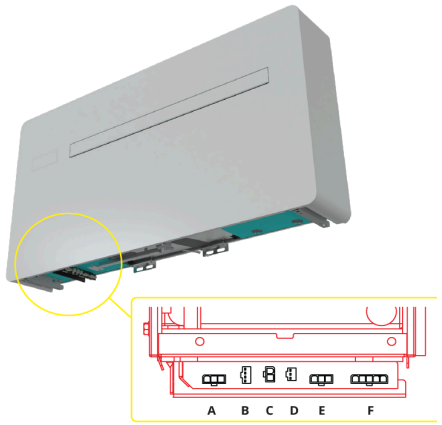
The AIO® unit Wall Mounted unit offers a group of connections located at the bottom-right corner on the back of the unit (as viewed when facing the mounted unit) to enable quick and easy connection to accessories and components.

Controller Gateways
This includes power and communication ports to connect the Third Party Gateway, Advanced Touch Controller, Basic Touch Controller, BACnet, Modbus, and other controllers.

Heat Trace Power
When installing a condensate line that is draining directly outside in cold climates, we highly recommend using a heat trace line.

ERV
When connecting the AIO® unit ERV for Wall Mounted, these ports allow quick connections to the power and communications for the ERV.

Figure 6.



A	Power supply for Controller Gateway	**D**	Communication port for ERV
B	Communication port for Controller Gateway	**E**	Power for ERV/Nebulizer
C	Power for heat trace on condensate line/Nebulizer	**F**	Not used

6. TECHNICAL SPECIFICATIONS

6.1 Cooling and heating

6.1.1 Cooling

Table 1: Performance - Cooling mode

Heat Pump only			95°F (35°C) (1)	105°F (40.6°C) (2)	115°F (46.1°C) (3)
Capacity	Maximum	BTU/hr	10,200	8,000	7,500
	Recommended*		9,000	7,500	7,100
	Rated		7,400	7,300	7,100
	Minimum		3,300	3,300	3,300
Input Power	Maximum	W	1,100	1,000	1,076
	Recommended*		1,046	930	987
	Rated		805	900	987
	Minimum		204	238	267
Efficiency	Maximum	EER	9.27	8.00	6.97
	Recommended*		8.60	8.06	7.19
	Rated		9.19	8.22	7.19
	Seasonal	SEER2	13.65	-	-
Moisture Removal		Pts/h	1.9	2.1	2.3
		L/hr	0.9	1.0	1.1

Notes

(1) ID: 80°F(26.7°C), W.B. 67°F(19.4°C) | OD: 95°F(35°C), W.B. 75°F(23.9°C)
(2) ID: 80°F(26.7°C), W.B. 67°F(19.4°C) | OD: 105°F(40.6°C), W.B. 75°F(23.9°C)
(3) ID: 80°F(26.7°C), W.B. 67°F(19.4°C) | OD: 115°F(46.1°C), W.B. 75°F(23.9°C)

* This is the recommended capacity for sizing the unit to the space.

6.1.2 Heating

Table 2: Performance - Heating

Heat Pump only			47°F (8.3 °C) (1)	17°F (-8.3 °C) (2)	5°F (-15°C) (3)	0°F (-17.8° C) (4)	-5°F (-20.6 °C) (5)
Capacity	Maximum	BTU/ hr	10,100	6,400	6,000	5,700	5,300
	Recomm-ended*		8,800	5,700	5,900	5,700	5,100
	Rated		7,400	5,100	5,300	5,100	4,900
	Minimum		3,000	3,000	3,000	3,000	3,000
Input Power	Maximum	W	1,028	970	1,430	1,392	1,316
	Recomm-ended*		860	870	1,040	1,040	1,070
	Rated		694	825	908	900	927
	Minimum		234	410	415	425	433
Efficiency	Maximum	COP	2.88	1.93	1.23	1.20	1.18
	Recomm-ended*		3.00	1.92	1.70	1.61	1.40
	Rated		3.10	1.81	1.70	1.66	1.55
	Minimum		3.76	2.2	2.12	2.07	2.03
	Seasonal	HSPF2	7.10	-	-	-	-

Notes

(1) ID: 70°F(21.1°C), W.B. 60°F(15.6°C) | OD: 47°F(8.3°C), W.B. 43°F(6.1°C)

(2) ID: 70°F(21.1°C), W.B. 60°F(15.6°C) | OD: 17°F(-8.3°C), W.B. 13°F(-10.6°C)

(3) ID: 70°F(21.1°C), W.B. 60°F(15.6°C) | OD: 5°F(-15°C), W.B. 3°F(-16.1°C)

(4) ID: 70°F(21.1°C), W.B. 60°F(15.6°C) | OD: 0°F(-17.8°C)

(5) ID: 70°F(21.1°C), W.B. 60°F(15.6°C) | OD: -5°F(-20.6°C)

* This is the recommended capacity for sizing the unit to the space.



Optional heat strips are available for an additional 6,100 BTU/hr of heating capacity.

6.2 Airflow

6.2.1 Indoor

Table 3: Airflow - Indoor

Air volume		
Indoor	Type	ECM centrifugal
	CFM	175 - 270
	m^3/hr	300 - 450
	Available ESP	-
	Supply connection	Integrated
	Return connection	Integrated
	Speeds	Low, med, high, auto
	Filter	MERV 3

6.2.2 Outdoor

Table 4: Airflow - Outdoor

Supply air volume			
Outdoor	Type		ECM centrifugal
	Flow	CFM	235 - 325
		m^3/hr	400 - 550
	Available ESP		0.25" WC (62.3 Pa)
	Intake and exhaust connection		**For units produced before January, 2025:** 6" (152.4 mm) round
			For units produced from January, 2025: 8" (203.2 mm) round (can be reduced to 6" (152.4 mm) with an adapter)

6.3 Sound

Table 5: Sound

Sound		
Indoor	dB(A)	27 - 41
	STC	37
	OITC	28
Outdoor	dB(A)	28-52

6.4 General

6.4.1 Controls

Table 6: General - Controls

Controls	
Basic functionality	Dependent on controller
WiFi	Optional module available
Dry contact	Yes

6.4.2 Modes

Table 7: General - Modes

Modes	
Operation	Cool, heat, dehumidify, auto, fan only
Restricted modes	Heat only, cool only, temperature limiting
Timers	Dependent on the controller

6.4.3 Condensate

Table 8: General - Condensate

Condensate	
Pipe size	3/4" (19.1 mm) Outside diameter
Pipe material	Rubber

6.4.4 Physical

For detailed dimensions, refer to the drawings in Section 8.

Table 9: General - Physical

Physical data			
Dimensions	Net	in	39.7 W x 21.9 H x 6.5 D
		mm	1008.4 W x 556.3 H x 165.1 D
Weight	Net	lb	100
		kg	45.4
	Gross	lb	105
		kg	47.6
Cabinet	Finish		RAL 9003 signal white
	Material		Steel

6.4.5 Compressor

Table 10: General - Compressor

Compressor			
Type	BLDC twin rotary inverter		
Refrigerant	For R-32 Units	Refrigerant Type	R32
		Charge Quantity	17.64 oz.
			500 g
	For R-410A Units	Refrigerant Type	R410A
		Charge Quantity	21.87 oz.
			620 g
Oil Type	Fv50s (ISO 50) Polyvinylether (PVE)		

6.5 Electrical

6.5.1 General

Table 11: Electrical - General

Physical data		115V	230V
Volt range		103-127	180-253
Hz/phase		60 Hz/single phase	
Power supply		LCDI power cord or hardwire (LCDI not available over 20A)	
Power factor (%)		0.96	
Input power (standby)	W	10.8	
Input power (off mode)	W	1.5	
Cooling (nominal)	A	5.7	2.9
Cooling (max)	A	9.6	4.8
Heat Pump Only			
Heating-heat pump only (nom.)	A	5.1	2.6
Heating-heat pump only (max)	A	9.6	4.8
Heat Pump + Elec Heat			
Heating-heat pump+ Elec Heat (nom.)	A	5.1	2.6
Heating-heat pump+900 W Elec Heat (max)	A	17.4	8.7
Heating-heat pump+1,800 W Elec Heat (max)	A	-	12.6

Table 12: Electrical - Circuit breakers

Circuit breakers			115V	230V
Heat Pump Only	MCA	A	12	6
	Recommended breaker size	A	15	15
	MOCP	A	25	15
Heat Pump+900 W Elec Heat	MCA	A	22	14
	Recommended breaker size	A	30	15
	MOCP	A	30	15
Heat Pump+1800 W Elec Heat	MCA	A	-	20
	Recommended breaker size	A	-	20
	MOCP	A	-	30

6.5.2 Motors

Table 13: Electrical - Motors

Motors			115V	230V
Compressor	RLA	A	7.9	3.9
	LRA	A	7.9	3.9
Indoor ECM fan motor	Watts (max)	W	50	50
	FLA	A	0.4	0.3
	Power	HP	0.07	0.07
Outdoor ECM fan motor	Watts (max)	W	90	90
	FLA	A	0.8	0.4
	Power	HP	0.12	0.12

In accordance with UL 60335-2-40, motor compressor ratings for Rated Load Amps (RLA) and Locked Rotor Amps (LRA) are determined according to Annex 101.DVB. For motor-compressors controlled by an adjustable speed drive, RLA and LRA shall be replaced with the rated input current of the power conversion equipment.

6.5.3 LCDI Power cords

Table 14: Electrical - LCDI Power cords

LCDI Power Cord		115V	230V
Heat Pump Only	Amps	20	15
	Length	89"	
	Plug Type	5-15P	6-15P
Heat Pump+900 W Elec Heat	Amps	-	15
	Length	89"	
	Plug Type	-	6-20P

LCDI Power Cord		115V	230V
Heat Pump+1800 W Elec Heat	Amps	-	20
	Length	89"	
	Plug Type	-	6-20P

LCDI cord is not available above 20 A.

For units requiring a breaker size above 20 A, a quick-connect whip cord is available as an accessory (40" and 60" lengths).

6.5.4 Operating limits

		Room T	External T
Cooling Mode	Max Temp	95°F (35°C)	115°F (46.1°C)
	Min Temp	64°F (17.8°C)	23°F (-5°C)
Heating Mode	Max Temp	81°F (27.2°C)	77°F (25°C)
	Min Temp	41°F (5°C)	-10°F (-23.3°C) [-13°F (-25°C) with electric heat]

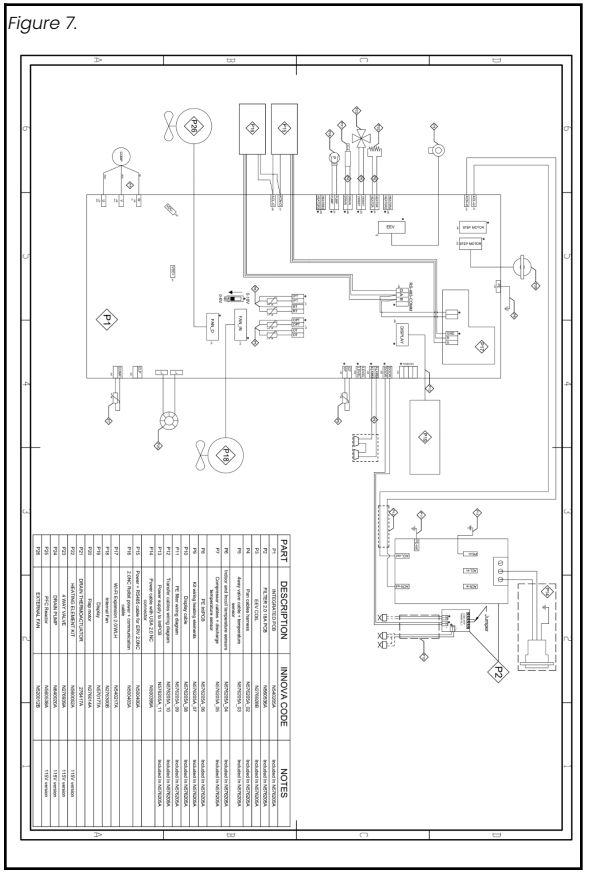
7. WIRING DIAGRAM

7.1 AIO® Wall Mounted 115V Wiring Diagram

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

AIO Wall Mounted 115V Heat Pump only Wiring Dia...

Figure 7.

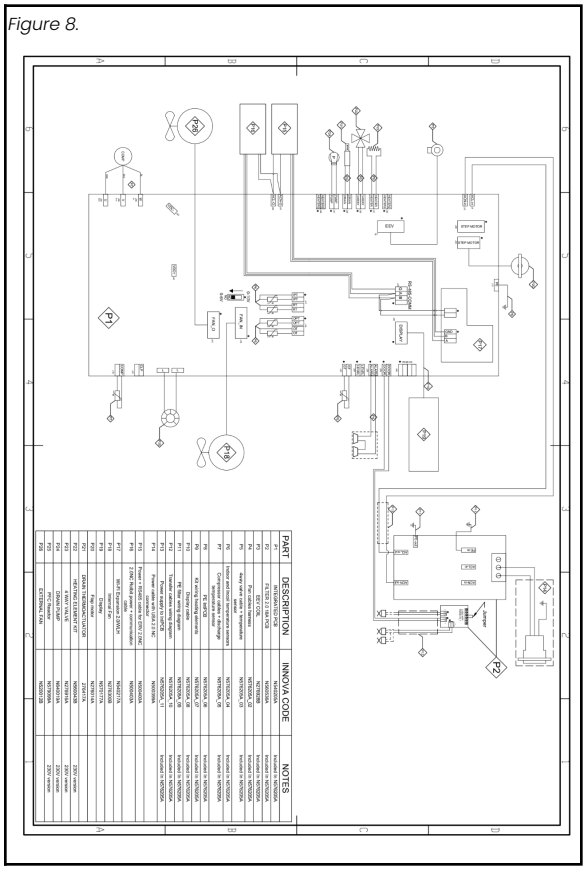


7.2 AIO® Wall Mounted 230V Wiring Diagram

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

AIO Wall Mounted 230V Wiring Diagram.pdf

Figure 8.



7.3 AIO® Wall Mounted 230V with Heat Strip Wiring Diagram

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

AIO Wall Mounted 230V with electric heat.pdf

Figure 9.

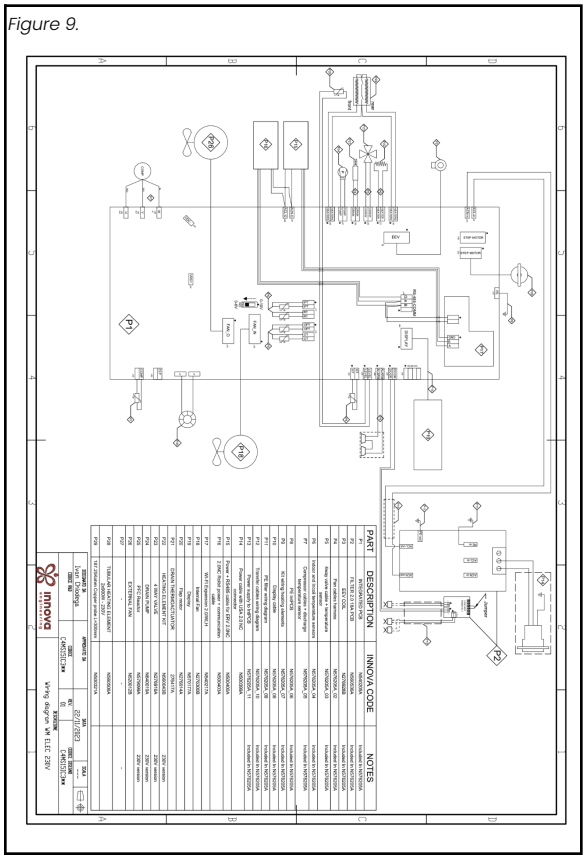


Table 15: Wiring diagram - Electric heat parts

Electric Heat Parts		230V
P7	Description	Compressor cables + discharge temperature sensor
	INNOVA Code	N576205A_05
	Note	Included in N576205A
P8	Description	PE IntPCB
	INNOVA Code	N576205A_06
	Note	Included in N576205A
P9	Description	Kit wiring heating elements
	INNOVA Code	N576205A_07
	Note	Included in N576205A
P10	Description	Display cable
	INNOVA Code	N576205A_08
	Note	Included in N576205A
P11	Description	PE filter wiring diagram
	INNOVA Code	N576205A_09
	Note	Included in N576205A
P12	Description	Transfer cables wiring diagram
	INNOVA Code	N576205A_10
	Note	Included in N576205A

8. DIMENSIONS

To view the dimensions of the AIO® unit Wall Mounted unit as a high-resolution PDF, click the link below:

AIO Wall Mounted Standard Gen 2 and 3 Dimensi...

Figure 10. Wall Mounted Standard Gen ⅔ Dimensions

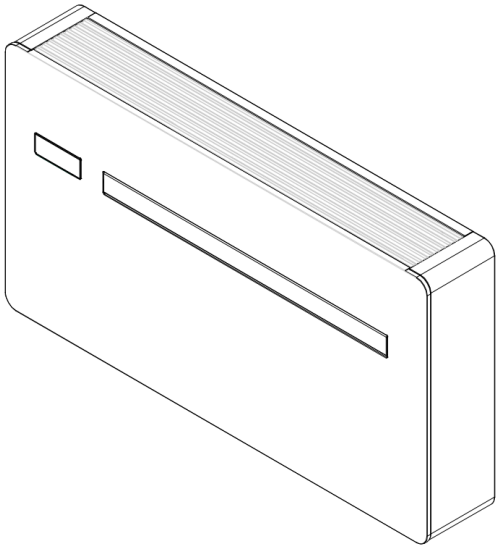


Figure 11. Gasket Accessory (reducer from 8" to 6") - RN300270A

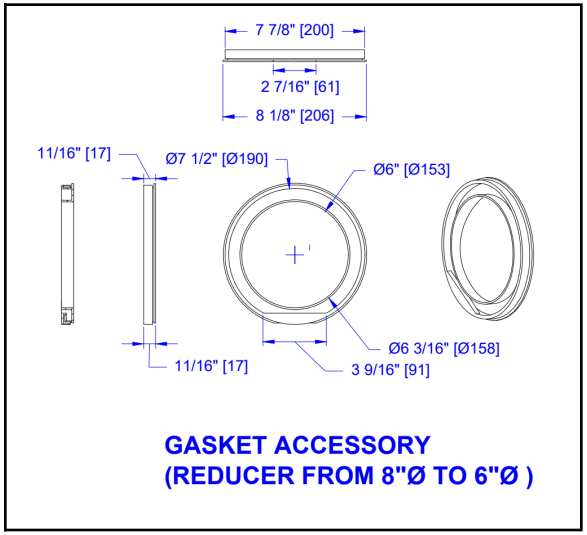


Figure 12. Dimensions (top view)

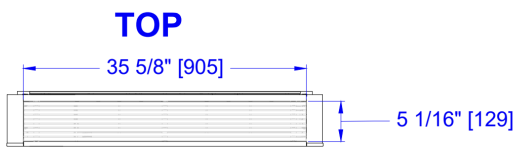


Figure 13. Dimensions (left view)

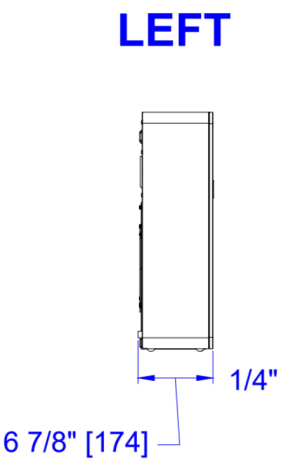


Figure 14. Dimensions (front view)

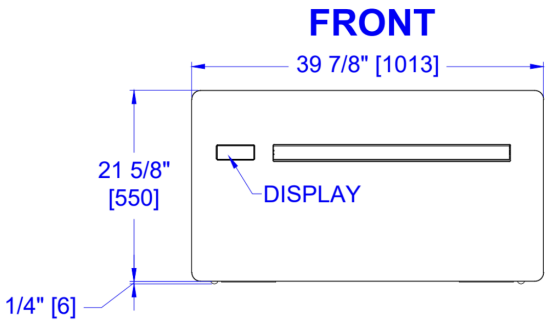


Figure 15. Dimensions (right view)

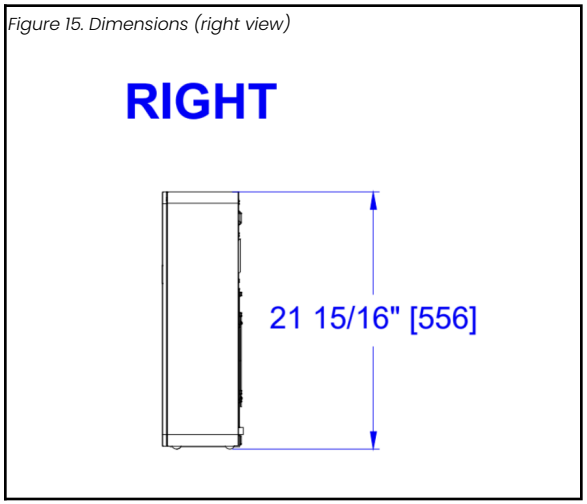


Figure 16. Dimensions (bottom view)

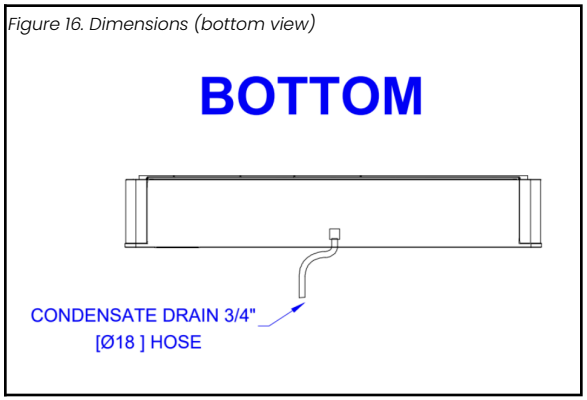
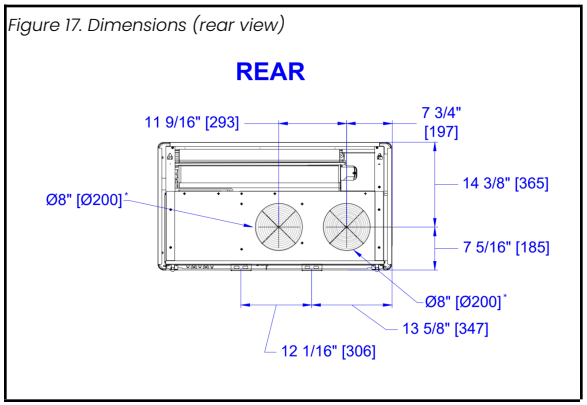


Figure 17. Dimensions (rear view)



9. WARRANTY

9.1 Basic Coverage

- **Parts:** 5 years from delivery.
- **Compressor:** 10 years from delivery.
- **Labor:** 2 years from certification (only if at least 10 units are installed, the site is certified by INNOVA or self-certified, and spare stock equal to 3% of total units is maintained)
- **Controllers:** Covered under a 2-year warranty.

9.2 Optional Extended Coverage

- **Additional 2-Year Parts & Labor Warranty:** Extends the basic coverage to 4 years labor and 7 years parts.
- **Extended 10-Year Parts Warranty:** Extends parts coverage to 10 years total.
- **Extended 5-Year Full Warranty:** Extends full parts and labor coverage to 5 years total.
- **Extended 10-Year Full Warranty:** Provides a 10-year full warranty on parts, labor, and compressor.
- **Extended 15-Year Full Warranty:** Provides a 15-year full warranty on parts, labor, and compressor.

9.3 Validation Requirements

- Installation must be certified by an INNOVA technician or self-certified within 30 days.
- Installers must complete INNOVA training.
- The system must comply with local codes, use approved louvers, and be properly maintained (e.g., clean filters monthly, coils every 18 months).

For warranty service or claims, contact INNOVA Support at vip@innova.co or (212) 204-2700.

For detailed terms and conditions, click the link below:

AIO Warranty Terms and Conditions - 2026 - INN...

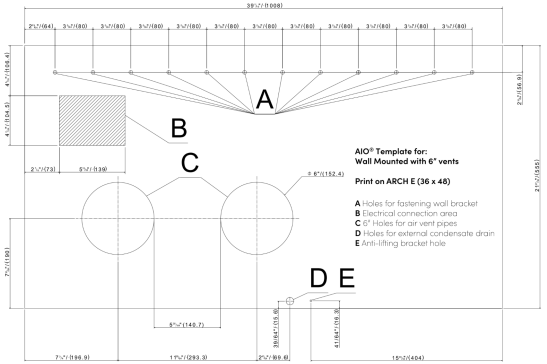
10. WALL MOUNTED MOUNTING TEMPLATE

10.1 6” Vent Mounting Template

To view the mounting template for the AIO® Wall Mounted unit (with 6” vents) as a high-resolution PDF, click the link below:

AIO Wall Mounted 6 inch template (V 5.0).pdf

Figure 18. Wall Mounted Mounting Template

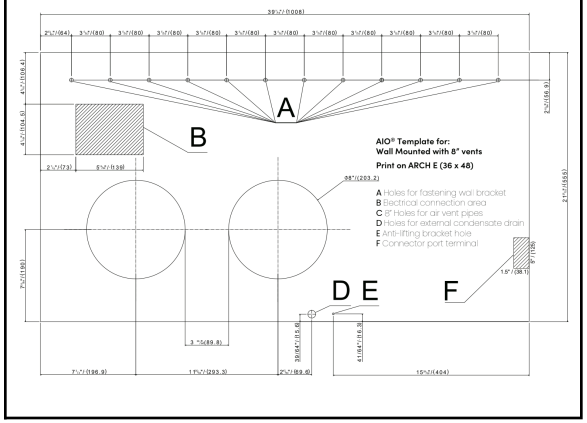


10.2 8” Vent Mounting Template

To view the mounting template for the AIO® Wall Mounted unit as a high-resolution PDF, click the link below:

AIO Wall Mounted (Gen 2 - 8" Vents) Template (V...

Figure 19. Wall Mounted Mounting Template



11. SUBMITTALS

11.1 115V Heat pump only

AIO® WALL MOUNTED -115V - NO ELECTRIC HEAT STRIP - R32 -SUBMITTAL (AWP10N3H1)

Job	References	Construction
Location	Approval	Quote Number
Engineer	Date	Drawing Number
Submitted to	Submitted By	P.O Number

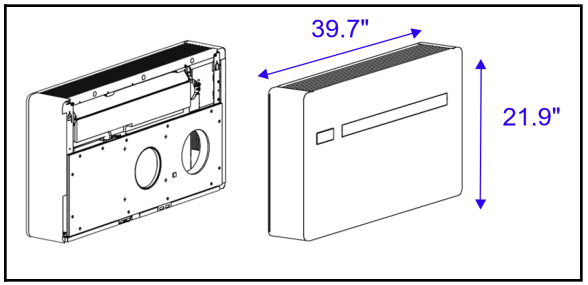
General Features

- BLDC inverter compressor
- ECM fans
- R32 Refrigerant
- Auto restart
- Intelligent defrost
- No outdoor unit
- Condensate disbursement systems
- Onboard touch controller
- Optional add-on ERV
- Washable filter
- Electronically controlled air louver
- Compact, slim design
- 3 selectable fan speeds + Auto
- 10-Year limited warranty (after certification)
- Made in Italy

The installing contractor must contact INNOVA Customer Technical Support prior to installation to schedule an installation training overview.

This may be conducted in person or remotely (online). It is the official installation training and may include videos, best practices, and system requirements.

Performing installations without training may result in installation errors, performance issues, and possible warranty limitations.



Performance Specifications		
Cooling Capacity	BTU/hr	7,400
SEER2		13.65
Rev. Cycle Heating Capacity	BTU/hr	7,400
HSPF2		7.01
Circulation	CFM	160-290
	m^3/hr	272 - 493
Dehumidification	Pts/h	1.9
	L/hr	0.9

Electric Specifications	
Power Supply (V/Ph/Hz)	115V/1Ph/60Hz
Voltage Range	103 - 127
Running Amps Cooling	7.7
Max Amps Cooling	9.6
Running Amps Heating	6.3
Max Amps Heating	10.4
MCA	13
Maximum Overcurrent Protection (A)	25
Recommend breaker size	15
Max Power Input (watts) Cooling:	1,630
Max Power Input (watts) Heating	1,630

Included	Wall Controllers + Gateways	
☐	Wireless Remote	WRCH20
☐	Basic Touch Controller	LTCH20
☐	Recessed Touch Controller	RTCH20
☐	Advanced TFT Controller with 7-Day program	TFTH20
☐	Wireless (AA Battery) Infrared Controller with 7-Day program	WIPT20
☐	Third Party Gateway	TPG015
☐	WiFi App	WIFI30
☐	E-Paper EOS Controller	EEOS12
☐	Simple EOS Controller	SEOS12
☐	Integration gateway for LTCH20, TFTH20 and MODBUS	GWN
☐	Integration gateway for LTCH20, TFTH20, MODBUS, BACnet, and third-party thermostats	GWX

Included	LCDI Power Cords	NEMA	SKU
☐	72 in. (1829 mm)	5-15P	L115v15a

11.2 230V Heat pump only

AIO® WALL MOUNTED - 230V - NO ELECTRIC HEAT STRIP - R32 -SUBMITTAL (AWP10N3H2)

Job	References	Construction
Location	Approval	Quote Number
Engineer	Date	Drawing Number
Submitted to	Submitted By	P.O Number

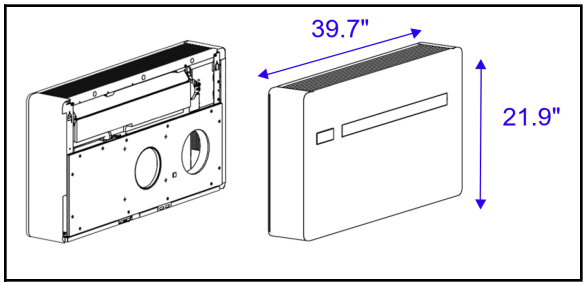
General Features

- BLDC inverter compressor
- ECM fans
- R32 Refrigerant
- Auto restart
- Intelligent defrost
- No outdoor unit
- Condensate disbursement systems
- Onboard touch controller
- Optional add-on ERV
- Washable filter
- Electronically controlled air louver
- Compact, slim design
- 3 selectable fan speeds + Auto
- 10-Year limited warranty (after certification)
- Made in Italy

The installing contractor must contact INNOVA Customer Technical Support prior to installation to schedule an installation training overview.

This may be conducted in person or remotely (online). It is the official installation training and may include videos, best practices, and system requirements.

Performing installations without training may result in installation errors, performance issues, and possible warranty limitations.



Performance Specifications		
Cooling Capacity	BTU/hr	7,400
SEER2		13.65
Rev. Cycle Heating Capacity	BTU/hr	7,400
HSPF2		7.01
Circulation	CFM	160-290
	m^3/hr	272 - 493
Dehumidification	Pts/h	1.9
	L/hr	0.9

Electric Specifications	
Power Supply	230V/1Ph/60Hz
Voltage Range	180 - 253
Running Amps Cooling	3.4
Max Amps Cooling	4.8
Running Amps Heating	2.9
Max Amps Heating	7.1
MCA	7
Maximum Overcurrent Protection (A)	15
Recommend breaker size	15
Max Power Input (watts) Cooling	1,800
Max Power Input (watts) Heating	1,800

Included	Wall Controllers + Gateways	
☐	Wireless Remote	WRCH20
☐	Basic Touch Controller	LTCH20
☐	Recessed Touch Controller	RTCH20
☐	Advanced TFT Controller with 7-Day program	TFTH20
☐	Wireless (AA Battery) Infrared Controller with 7-Day program	WIPT20
☐	Third Party Gateway	TPG015
☐	WiFi App	WIFI30
☐	E-Paper EOS Controller	EEOS12
☐	Simple EOS Controller	SEOS12
☐	Integration gateway for LTCH20, TFTH20 and MODBUS	GWN
☐	Integration gateway for LTCH20, TFTH20, MODBUS, BACnet, and third-party thermostats	GWX

Included	General Accessories	
☐	ERV	AWERV30
☐	Underbody Cover Plate	GB0737II
☐	Underbody Cover Plate for unit w/ERV	GB0737I4
☐	LCDI Power Cord 72 in. (1829 mm) length	L230v15a
☐	Reducer Plate from 8” (203 mm) to 6” (152 mm)	RED2016

11.3 230V Heat pump + elec heat

AIO® WALL MOUNTED - 230V - 900W/1800W ELECTRIC HEAT - R32 -SUBMITTAL (AWK10N3H2)

Job	References	Construction
Location	Approval	Quote Number
Engineer	Date	Drawing Number
Submitted to	Submitted By	P.O Number

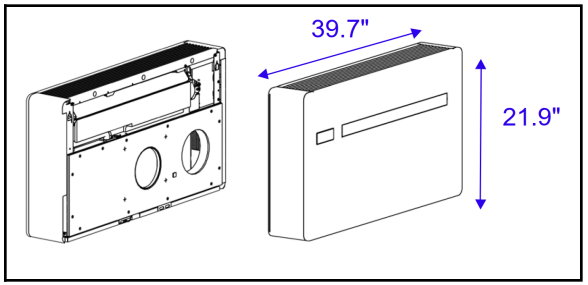
General Features

- BLDC inverter compressor
- ECM fans
- Field configured 1,800W Electric heat supplement, Staged as 900W + 900W
- Auto restart
- Intelligent defrost
- No outdoor unit
- Condensate disbursement systems
- Onboard touch controller
- Optional add-on ERV
- Washable filter
- Electronically controlled air louver
- Compact, slim design
- 3 selectable fan speeds + Auto
  - 10-Year limited warranty (after certification)
  - Made in Italy

The installing contractor must contact INNOVA Customer Technical Support prior to installation to schedule an installation training overview.

This may be conducted in person or remotely (online). It is the official installation training and may include videos, best practices, and system requirements.

Performing installations without training may result in installation errors, performance issues, and possible warranty limitations.



Performance Specifications		**900W**	**1,800W**
Cooling Capacity	BTU/h	7,400	7,400
SEER2		13.65	13.65
Rev. Cycle Heating Capacity	BTU/h	7,400	7,400
Electric heat	BTU/h	3,070	6,140
HSPF2		7.01	7.01
Circulation	CFM	160-290	160-290
	m^3/min	4.5 - 8.2	4.5 - 8.2
Dehumidification	Pts/h	1.9	1.9
	L/hr	0.9	0.9

Electric Heat	**900W**	**1,800W**
Power Supply	230V/1Ph/60Hz	230V/1Ph/60Hz
Voltage Range	180 - 253	180 - 253
Running Amps Cooling	3.4	3.4
Max Amps Cooling	4.8	4.8
Running Amps Heating	6.8	10.7
Max Amps Heating	11.0	14.9
MCA	12	17
Maximum Overcurrent Protection (A)	20	20
Recommend breaker size	15	20

Max Power Input (watts) Cooling	1,800	1,800
Max Power Input (watts) Heating	2,700	3,600

Included	Wall Controllers + Gateways	
☐	Wireless Remote	WRCH20
☐	Basic Touch Controller	LTCH20
☐	Recessed Touch Controller	RTCH20
☐	Advanced TFT Controller with 7-Day program	TFTH20
☐	Wireless (AA Battery) Infrared Controller with 7-Day program	WIPT20
☐	Third Party Gateway	TPG015
☐	WiFi App	WIFI30
☐	E-Paper EOS Controller	EEOS12
☐	Simple EOS Controller	SEOS12
☐	Integration gateway for LTCH20, TFTH20 and MODBUS	GWN
☐	Integration gateway for LTCH20, TFTH20, MODBUS, BACnet, and third-party thermostats	GWX

Included	General Accessories	
☐	ERV	AWERV30
☐	Underbody Cover Plate	GB0737II
☐	Underbody Cover Plate for unit w/ERV	GB0737I4
☐	Reducer Plate from 8" (203 mm) to 6" (152 mm)	RED2016

Included	LCDI Power Cords (900W)	NEMA	SKU
☐	72 in. (1829 mm)	6-20P	L220v20a

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

© 2026 INNOVA. All rights reserved.

Revised September 23, 2026

AIO® Wall Mounted (Gen 2) **Product Data Sheet**