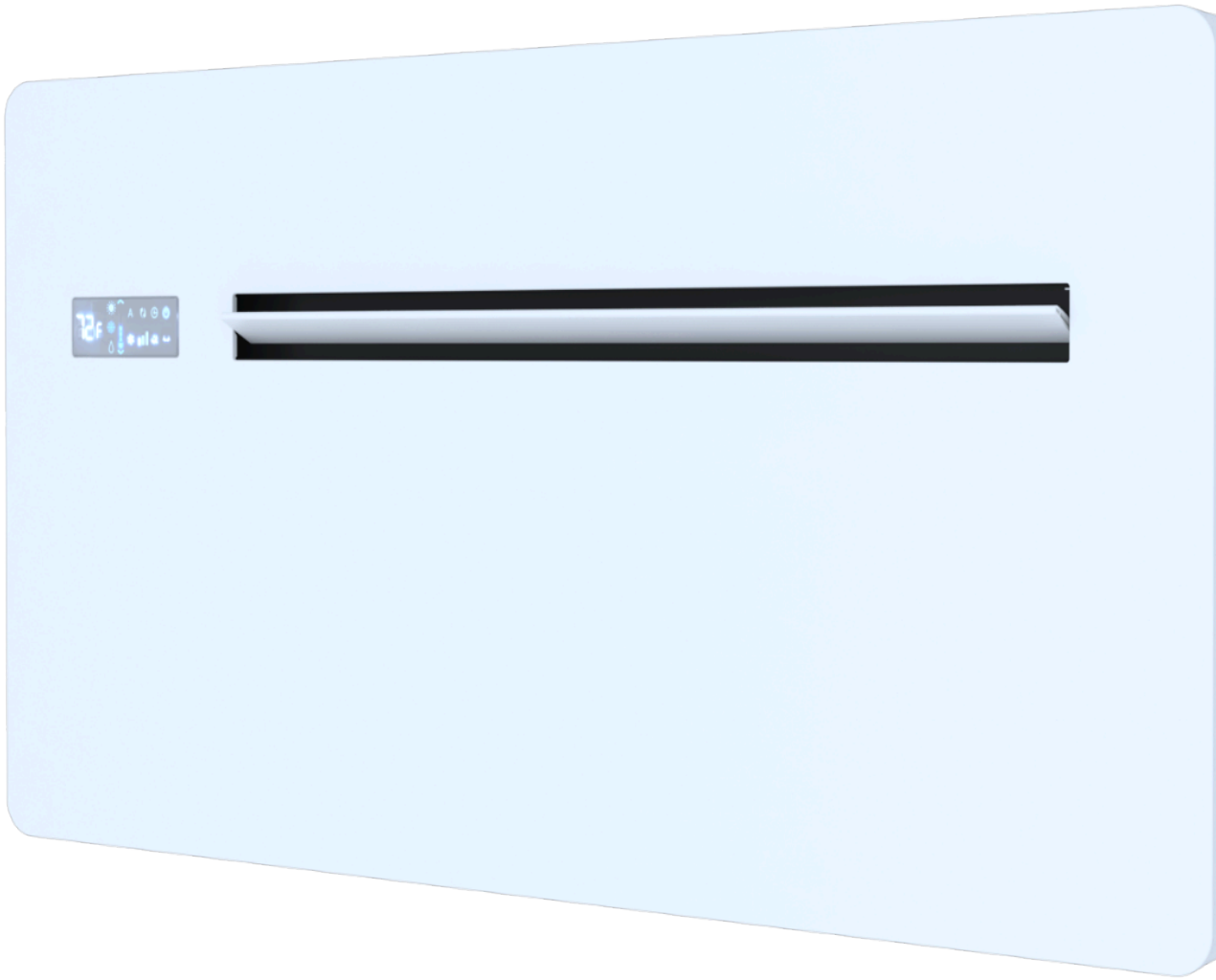
AIO® Wall Mounted Pro (Gen 1)

Product Data Sheet



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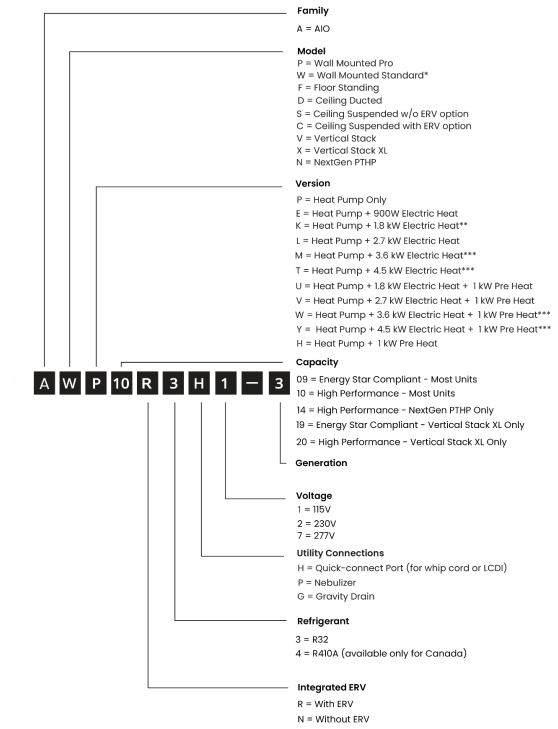
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ETL Listed. Control Number: 5032306. Conforms to: UL 60335-2-40:2022 Ed.4 | CSA C22.2#60335-2-40:2022 Ed.4 | UL 60335-1:2016 Ed.6 | CSA C22.2#60335-1:2016 Ed.2

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**

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1. READING THIS DOCUMENTATION

Some language and symbols in this documentation have specific meanings.

1.1 Documentation-specific language

Reference to the product
Any reference to "the unit" refers to the AIO® Wall Mounted Pro (Gen 1) 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.

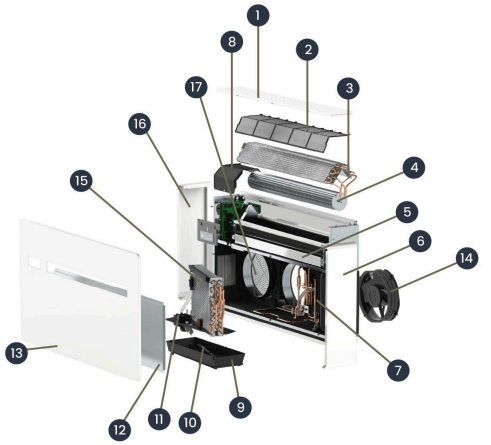
Indicates supplemental information, tips, or useful background information.

2. AIO® WALL MOUNTED PRO WITH ERV OPTION (GEN 1) OVERVIEW

AIO® Wall Mounted Pro units are slim and sleek. The AIO® Wall Mounted Pro unit can be mounted high or low on the wall, using 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 Pro 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. The AIO® Wall Mounted Pro's powerful external electronically commutated motor (ECM) condenser fan sits inside the vent pipe or adapter.

2.1 Components and structure

Figure 2. What's Inside



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

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 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 ECM fans with auto ESP
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 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 the AIO® unit is operating.

No outside noise infiltration
The AIO® unit has the lowest STC and OITC rating among comparable units. This means less outside noise intrudes into the room day and night.

Versatile on/off options
The AIO® unit's low voltage connection enables connection to any occupancy system, key-card, window sensors, fire alarms, etc.; as long as it can send a signal to the AIO® unit via low voltage, the unit can be easily turned on or off.

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 ¾" (19.1 mm) clearance on all sides. Compact footprints take up minimum 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 or 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 an optional iOS and Android app. The AIO® unit can be used with optional wall-mounted controllers, including a TFT with a 7-day program and third-party controllers from any company using the optional 3rd party kit. You can purchase an optional BACnet and Modbus module to enable interfacing with building management systems.

3. AIRFLOW

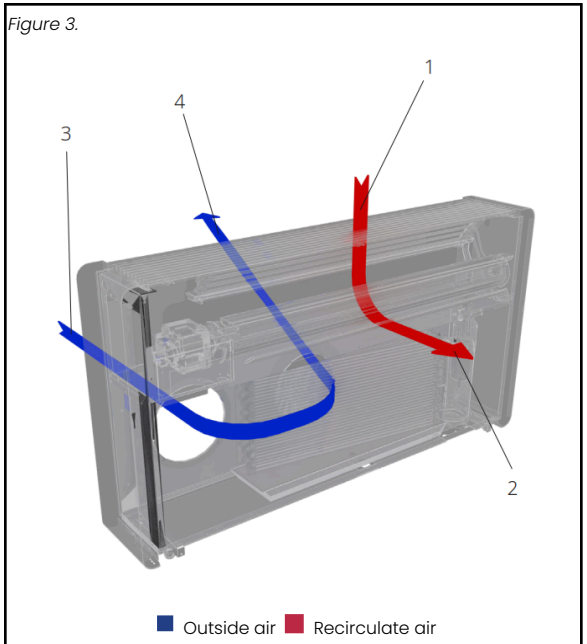
3.1 Airflow operation

The AIO® Wall Mounted Pro unit is extraordinarily flexible in how it can be externally vented. A host of adapters are available that enable the AIO® Wall Mounted Pro unit to be installed in many scenarios, including on glass curtain walls with linear louvers, integrated window and louver assemblies, or even with no construction, using a window sill adapter.

- **Supply air**
  The supply air is through an electronically controlled louver that can be set at any angle or continuously oscillate.
- **Return air**
  The return air is on the top through the integrated return air grille.
- **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.

3.2 Airflow diagram

Figure 3.



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

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.

Abnormally low ambient temperatures 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.
- Interior clearances are as follows:
  - 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 of 2% slope.
  - It is highly recommended that you use a heat trace wire on the line.
- Approved louvers must be installed with best practices to ensure that no water enters the wall assembly.
- 8" (203.2 mm) diameter ducts through the wall, which protrude 1/8" (3.2 mm) into the unit's EPDM backing to ensure a tight seal.
- The unit must be perfectly level on the horizontal axis and perfectly plumb on the vertical axis.
- The unit must be attached to the ducts tightly, with zero leakage between the external ducts and the unit. If the wall is not plumb, use insulating material.
- The wall bracket must be properly affixed to wall studs or other supporting material. Note that the wall bracket has several places that must be secured.
- **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 i

4.4 Louver specifications

AIO® Wall Mounted Pro 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 AIO® Wall Mounted Pro 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 free area required is .21 square feet (.02 m^2) for the intake vent and .21 square feet (.02 m^2) for the exhaust vent.

  Intake and exhaust louvers combined must be under 0.45" WC (112.1 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 AIO® Wall Mounted units:

- **Sunvent:** LLA/C, LLA/M, LLA/s - available through your INNOVA distributor.
- **Thermaduct:** RLA6 - available through your INNOVA distributor.

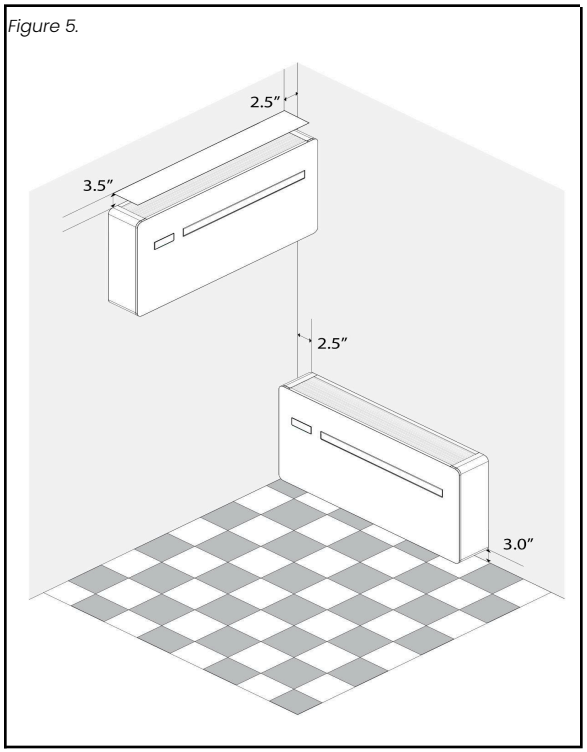
4.5 Clearance requirements

The clearances for the AIO® Wall Mounted Pro unit depend on how it is mounted. 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® Wall Mounted Pro 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 no curtains, furniture, plants, or any 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 tight to the wall so there are zero gaps between the wall and the unit. Gaps can allow outside air inside and create short cycling and humidity. If there are any gaps, 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. TECHNICAL SPECIFICATIONS

5.1 Cooling and heating

5.1.1 Cooling

Table 1. Performance - Cooling mode

Heat Pump		**95°F (35°C)** (1)	**105°F (40.6°C)** (2)	**115°F (46.1°C)** (3)
Maximum*	BTU/hr	15,000	12,000	13,500
Rated**		9,000	8,200	7,700
Minimum		3,300	3,300	3,300
Input Power	W	801	909	982
Efficiency		15.74 SEER2	9.22 EER2	7.84 EER2
Moisture Removal	Pts/h	1.9	-	-
	L/hr	0.9	-	-

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)

5.1.2 Heating

Table 2. Performance - Heating mode

Heat Pump		**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)
Maximum*	BTU /hr	14,500	9,100	6,700	6,500	6,100
Rated**		8,200	7,600	5,600	5,400	5,100
Minimum		3,300	3,300	3,300	3,300	3,300
Input Power	W	711	935	919	953	917
Efficiency		8.41 HSPF2	2.38 COP	1.76 COP	1.66 COP	1.63 COP

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)

5.1.3 Heat Pump + optional 6,100 Btu/hr electric heat

Table 3. Performance - Heat pump + optional 6,100 Btu/hr electric heat

Heating		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)
Maximum*	BTU /hr	20,600	15,200	12,800	12,600	12,200
Rated**		14,300	13,700	11,700	11,500	11,200
Minimum		9,400	9,400	9,400	9,400	9,400
Input	W	2,498	2,891	2,706	2,740	2,704

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)

- *** Important:** Maximum capacity is not intended for design specifications. It represents temporary operation only, such as when outdoor temperatures exceed design conditions or when the room load is higher than design due to added occupants. Because it does not reflect normal unit performance, the AIO® unit can operate above its rated capacity for no more than 30 minutes at a time.
- **** Rated capacities** are based on AHRI test data with the fan at high speed.

5.2 Airflow

5.2.1 Indoor

Table 4: Airflow - Indoor

Air volume			
Indoor	Type		ECM centrifugal
	Flow	CFM	160-290
		m^3/hr	272 - 493
	Supply connection		Integrated
	Return connection		Integrated
	Speeds		Low, med, high, auto
	Filter		MERV 3

5.2.2 Outdoor

Table 5. Airflow - Outdoor

Air volume			
Outdoor	Type		ECM centrifugal
	Flow	CFM	184- 490
		m^3/hr	313 - 834
	Available ESP		0.25" WC 62.3 Pa
	Intake and exhaust connection		8" (203.2 mm) round (external exhaust fan is 8.0" [203.2 mm] diameter) - must leave room for clearance

5.3 Sound

Table 6. Sound

Sound		
Indoor	dB(A)	29 - 49
	STC	40
	OITC	35
Outdoor	dB(A)	28-55

5.4 General

5.4.1 Controls

Table 7. General - Controls

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

5.4.2 Modes

Table 8. General - Modes

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

5.4.3 Condensate

Table 9. General - Condensate

Condensate	
Pipe size	3/4" (19 mm) Outside diameter
Pipe material	Rubber

5.4.4 Physical

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

Table 10. General - Physical

Physical data			
Dimensions		in	39.9 W x 21.6 H x 6.9+6 fan depth
		mm	1014 W x 549 H x 683 + 152 fan depth
Weight	Net	lb	100
		kg	45.4
	Gross	lb	105
		kg	47.6
Cabinet	Finish		RAL 9003 signal white
	Material		Steel

5.4.5 Compressor

Table 11. General - Compressor

Compressor			
Type	BLDC twin rotary inverter		
Refrigerant	For R32 Units	Refrigerant Type	R32
		Charge Quantity	17.64 oz.
			500 g
	For R410 Units	Refrigerant Type	R410
		Charge Quantity	21.87 oz.
			620 g
Oil Type	Fv50s (ISO 50) Polyvinylether (PVE)		

5.5 Electrical

5.5.1 General

Table 12. 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	
Power factor (%)		0.96	0.96
Input power (standby)	W	10.8	10.8
Input power (off mode)	W	1.5	1.5
Cooling (nominal)	A	6.9	3.4
Cooling (max)	A	14.7	7.8
Heat Pump Only			
Heating-heat pump only (nom.)	A	5.8	2.9
Heating-heat pump only (max)	A	14.2	7.1

Heat Pump+900 W Elec Heat			
Heating-heat pump+900 W Elec Heat (nom.)	A	13.6	6.8
Heating-heat pump+900 W Elec Heat (max)		22.0	11.0
Heating-Heat Pump+1,800 W Elec Heat (nom)		N/A	10.7
Heating-Heat Pump+1,800 W Elec Heat (max)		N/A	14.9

Table 13. Electrical - Circuit breakers

Circuit breakers			115V	230V
Heat Pump Only	MCA	A	20	10
	Recommended breaker size		20	15
	MOCP		35	20
Heat Pump+900 W Elec Heat	MCA	A	30	15
	Recommended breaker size		30	20
	MOCP		40	20
Heat Pump+1800 W Elec Heat	MCA	A	N/A	20
	Recommended breaker size		N/A	20
	MOCP		N/A	30

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.

5.5.2 Motors

Table 14. Electrical - Motors

Motors			115V	230V
Compressor	RLA	A	9.35	4.7
	LRA		9.35	4.7
Indoor ECM fan motor	Watts (max)	W	50	50
	FLA	A	0.4	0.2
	Power	HP	0.07	0.07
Outdoor ECM fan motor	Watts (max)	W	150	150

Motors			115V	230V
	FLA	A	1.3	0.7
	Power	HP	0.20	0.20

5.5.3 LCDI Power cords

Table 15. Electrical - LCDI Power Cords

LCDI Power Cord		115V	230V
Heat Pump Only	Amps	20	15
	Plug Type	5-20P	6-15P
Heat Pump+900 W Elec Heat	Amps		15
	Plug Type		6-15P
Heat Pump+1800 W Elec Heat	Amps		20
	Plug Type		6-20P

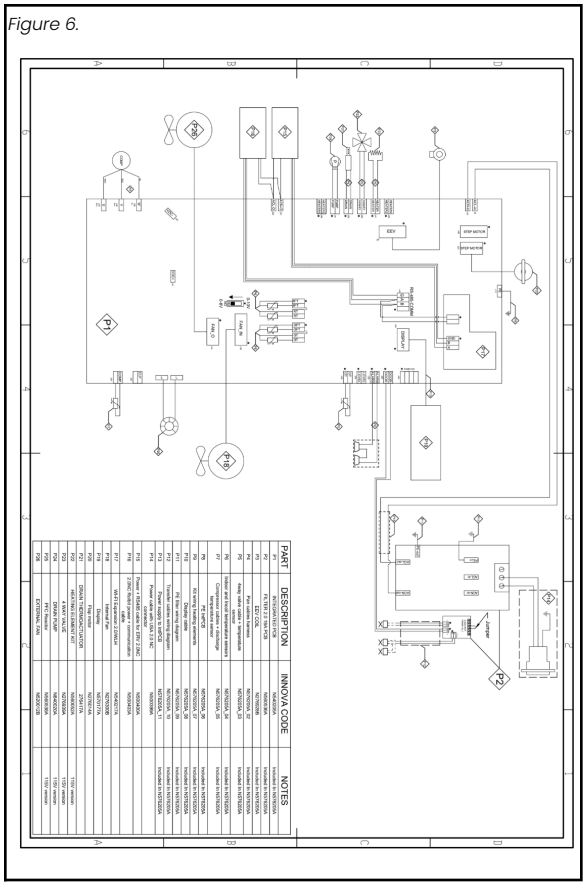
6. WIRING DIAGRAM

6.1 115V Heat pump only

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

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

Figure 6.

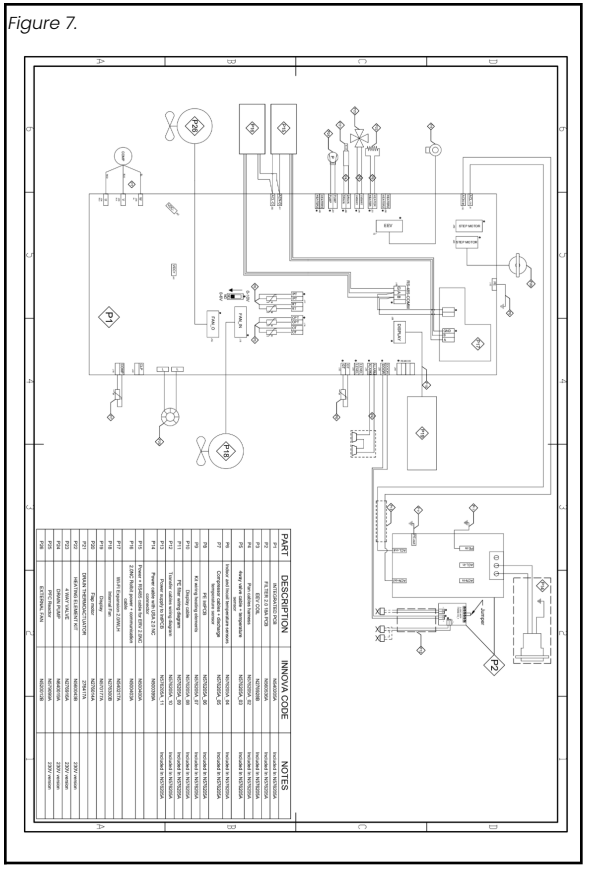


6.2 230V Heat pump only

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

AIO Wall Mounted 230V Heat Pump Only Wiring Di...

Figure 7.

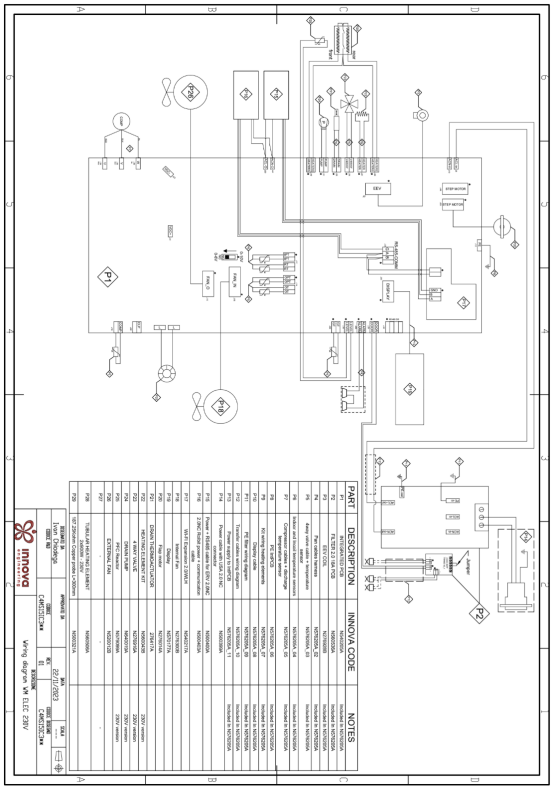


6.3 230V Heat pump + electric heat

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

AIO Wall Mounted 230V with electric heat (V 5.0)....

Figure 8.



6.4 Notes

Table 16. 230V Heat pump + electric heat - Electric heat parts

Electric Heat Parts		230V
P1	Description	Integrated PCB
	INNOVA Code	N540205A
	Note	Included in N576205A
P2	Description	Filter 2.0 18A PCB
	INNOVA Code	NN560536A
	Note	Included in N576205A
P3	Description	EEV Coil
	INNOVA Code	N276928B
	Note	Included in N576205A
P4	Description	Pan cable harness
	INNOVA Code	N576205A_02
	Note	Included in N576205A
P5	Description	4-way valve cable + temperature sensor
	INNOVA Code	N576205A_03
	Note	Included in N576205A
P6	Description	Indoor and Incoil temperature sensors
	INNOVA Code	N576205A_04
	Note	Included in N576205A
P7	Description	Compressor cables + discharge temperature sensor
	INNOVA Code	N576205A_05
	Note	IIncluded in N576205A
P8	Description	PE IntPCB
	INNOVA Code	N576205A_06
	Note	IIncluded 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
P13	Description	Power supply to IntPCB
	INNOVA Code	N576205A_11
	Note	Included in N576205A
P14	Description	Power cable with USA 2.0 NC connector
	INNOVA Code	N500399A
P15	Description	Power supply to IntPCB
	INNOVA Code	N500400A
P16	Description	Power + RS485 cable for ERV 2.0NC
	INNOVA Code	N500403A
P17	Description	WI-FI Expansion 2.0/WLH
	INNOVA Code	N540217A
P18	Description	Internal Fan
	INNOVA Code	N276300B
P19	Description	Display
	INNOVA Code	N570177A

Electric Heat Parts		230V
P20	Description	Flap motor
	INNOVA Code	N276300B
P21	Description	Drain thermo actuator
	INNOVA Code	N276417A
P22	Description	Heating element kit
	INNOVA Code	N560043B
	Note	230V version
P23	Description	4-way valve
	INNOVA Code	N276916A
	Note	I230V version
P24	Description	Drain pump
	INNOVA Code	N640019A
	Note	230V version
P25	Description	PFC Reactor
	INNOVA Code	N579099A
	Note	230V version
P26	Description	External fan cable from IntPCB to base
	INNOVA Code	N500398A
P27	Description	Tubular heating element 2x900w -230V
	INNOVA Code	N560506A
P28	Description	187.25 kilo-ohm copper probe L = 300mm
	INNOVA Code	N500321A

7. EXTERNAL FAN

The AIO® Wall Mounted Pro uses an extraordinarily powerful fan that sits inside the sleeve, plenum box, or wall assembly. When installing the unit, first the mounting bracket is secured to the wall, then the fan is secured to the wall bracket and connected to the AIO® Wall Mounted unit.

Figure 9.



Figure 10.

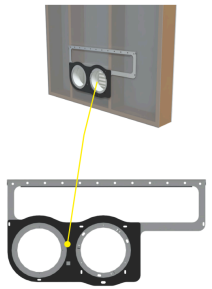
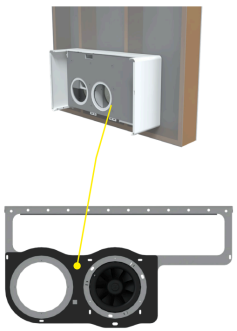


Figure 11.



8. DIMENSIONS

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

AIO Wall Mounted Pro Dimensions (V 5.0).pdf

Figure 12. Dimensions (top view)

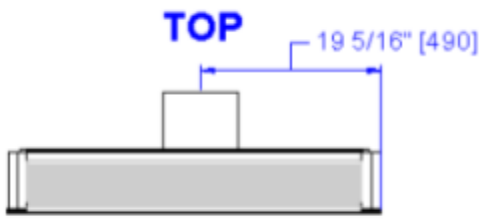


Figure 13. Dimensions (left view)

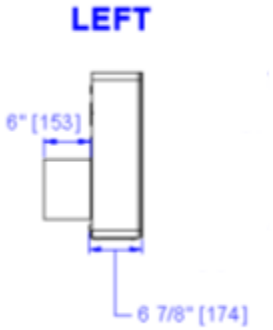


Figure 14. Dimensions (front view)

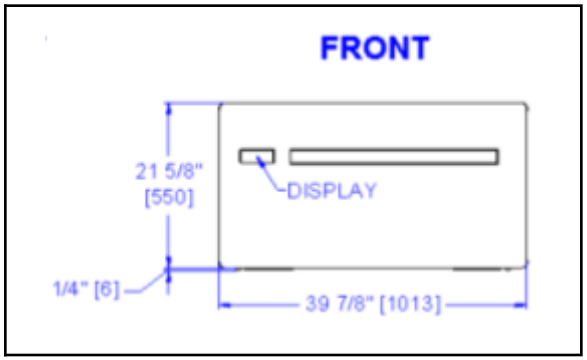


Figure 15. Dimensions (right view)

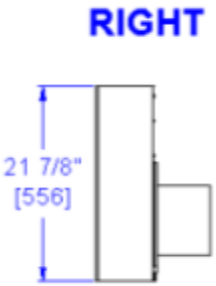


Figure 16. Dimensions (bottom view)

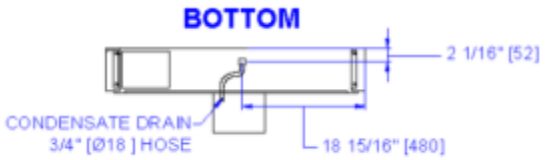
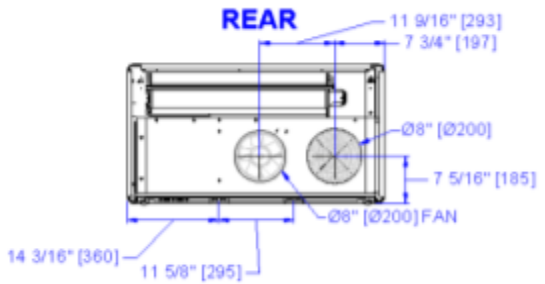


Figure 17. Dimensions (rear view)



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).

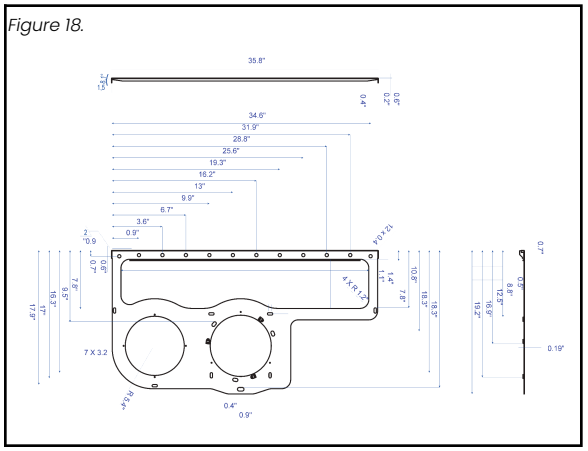
For warranty service or claims, contact INNOVA Support at vip@innova.co or (212) 204-2700.

For detailed terms and conditions, click the link below:

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

10. WALL MOUNTED PRO MOUNTING TEMPLATE

Figure 18.



11. SUBMITTALS

11.1 115V Heat pump only

AIO® WALL MOUNTED PRO - 115V - NO ELECTRIC HEAT - R32 - SUBMITTAL (APP10N3H1)

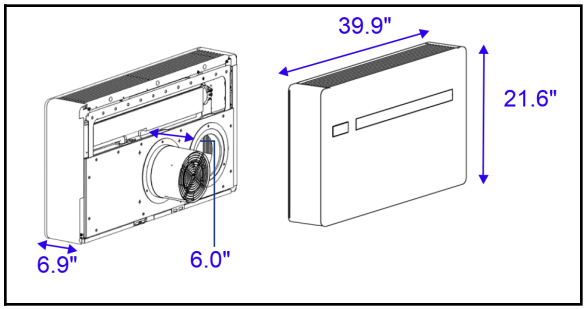
General Features

- BLDC inverter compressor
- ECM fans
- R32 Refrigerant
- 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)		9,000
SEER2		15.74
EER2		11.23
Heating Capacity (Btu/h)		8,200
HSPF2		8.41
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	6.9
Max Amps Cooling	14.7
Running Amps Heating	5.8
Max Amps Heating	14.2
MCA	20
Maximum Overcurrent Protection (A)	35
Recommend breaker size	20

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
☐	Reducer Plate from 8" (203.2 mm) to 6" (152.4 mm)	RED2016

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

11.2 115V Heat pump + elec heat

AIO® WALL MOUNTED PRO -115V - 900W ELECTRIC HEAT - R32 -SUBMITTAL (APE10N3H1)

Job	Reference	Construction
Location	Approval	Quote Number
Engineer	Date	Drawing Number
Submitted To	Submitted By	P.O. Number

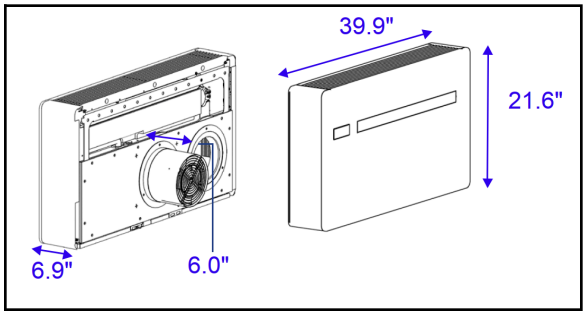
General Features

- BLDC inverter compressor
- ECM fans
- R32 Refrigerant
- 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/h)		9,000
SEER2		15.74
EER2		11.23
Heating Capacity (Btu/h)		8,200
HSPF2		8.41
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	103 - 127
Running Amps Cooling	6.9
Max Amps Cooling	14.7
Running Amps Heating	13.6
Max Amps Heating	22.0
MCA	30
Maximum Overcurrent Protection (A)	40
Recommend breaker size	30

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

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" (203.2 mm) to 6" (152.4 mm)	RED2016

Included	LCDI Power Cords (900W)	NEMA	SKU
☐	72 in. (1829 mm)	6-15P	L220v15a

11.3 230V Heat pump only

AIO® WALL MOUNTED PRO - 230V - NO ELECTRIC HEAT - R32 - SUBMITTAL (APP10N3H2)

Job	Reference	Construction
Location	Approval	Quote Number
Engineer	Date	Drawing Number
Submitted To	Submitted By	P.O. Number

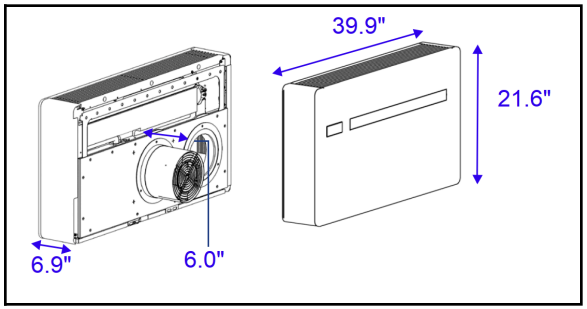
General Features

- BLDC inverter compressor
- ECM fans
- R32 Refrigerant
- 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)		9,000
SEER2		15.74
EER2		11.23
Rev. Cycle Heating Capacity (Btu/h)		8,200
HSPF2		8.41
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	7.8
Running Amps Heating	2.9
Max Amps Heating	7.1
MCA	10
Maximum Overcurrent Protection (A)	20
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
☐	Reducer Plate from 8" (203.2 mm) to 6" (152.4 mm)	RED2016

Included	LCDI Power Cords (900W)	NEMA	SKU
☐	72 in. (1829 mm)	6-15P	L220v15a

11.4 230 VAC Heat pump + electric heat

AIO® WALL MOUNTED PRO - 230V - 900/1800W ELECTRIC HEAT - R32 -SUBMITTAL (APK10N3H2)

Job	Reference	Construction
Location	Approval	Quote Number
Engineer	Date	Drawing Number
Submitted To	Submitted By	P.O. Number

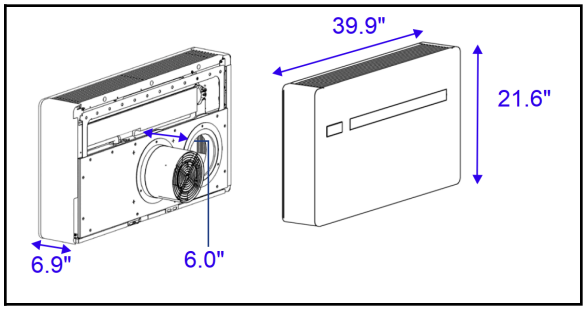
General Features

- BLDC inverter compressor
- ECM fans
- R32 Refrigerant
- Field configured 1,800W Electric heat supplement, Staged as 900W + 900W
- 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	1800W
Cooling Capacity (Btu/h)		9,000	9,000
SEER2		15.74	15.74
EER2		11.23	11.23
Rev. Cycle Heating Capacity (Btu/h)		8,200	8,200
Electric heat (Btu/h)		3,070	6,140
HSPF2		8.41	8.41
Circulation	CFM	160-290	160-290
	m^3/hr	272 - 493	272 - 493
Dehumidification	Pts/h	1.9	1.9
	L/hr	0.9	0.9

Electric Specifications	900W	1800W
Electric Specifications	230V/1Ph/60Hz	230V/1Ph/60Hz
Voltage Range	180-253	180-253
Running Amps Cooling	3.4	3.4
Max Amps Cooling	7.8	7.8
Running Amps Heating	6.8	10.7
Max Amps Heating	11.0	14.9
MCA	15	20
Maximum Overcurrent Protection (A)	20	30
Recommend breaker size	20	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" (203.2 mm) to 6" (152.4 mm)	RED2016

Included	LCDI Power Cords (900W)	NEMA	SKU
☐	72 in. (1829 mm)	6-15P	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

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Revised September 23, 2026

AIO® Wall Mounted Pro (Gen 1)
Product Data Sheet