

AIO™ Vertical Stack with ERV (Gen 3)

Product Data Sheet



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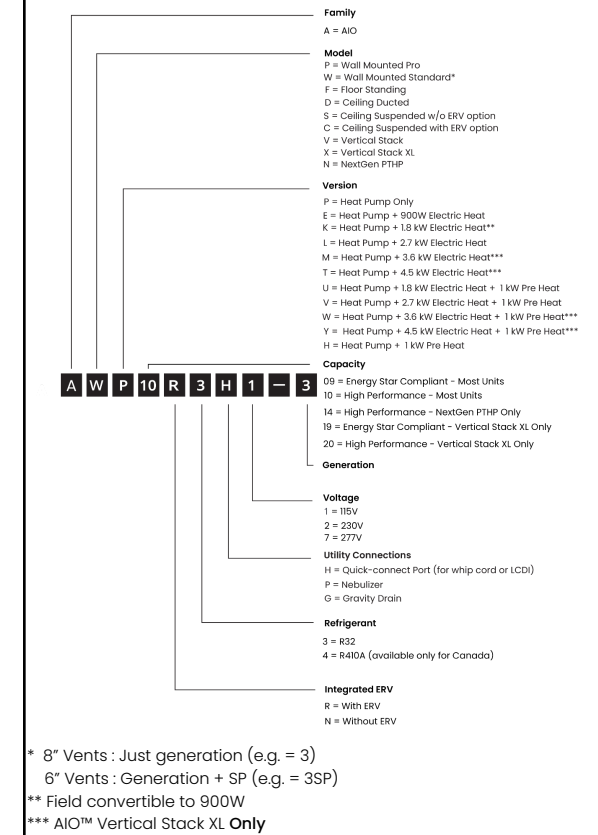
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MODEL NUMBER NOMENCLATURE

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

Figure 1. AIO™ Model Number Nomenclature



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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™ Vertical Stack with ERV (R32) 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.



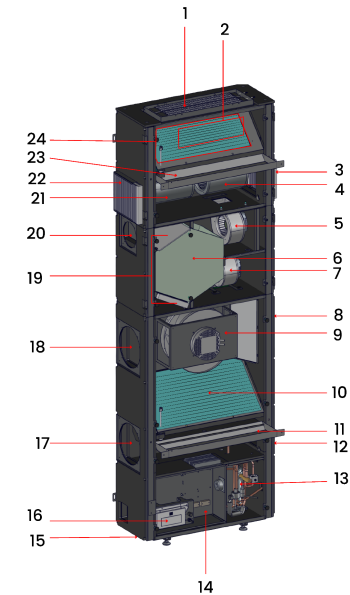
Indicates supplemental information, tips, or useful background information.

2. AIO™ VERTICAL STACK WITH ERV OVERVIEW

AIO™ Vertical Stack is the ideal multi-room solution when a ceiling-mounted unit is not desired or feasible. The compact 12.4-inch (315 mm) by 27.4-inch (695 mm) footprint uses minimal floor space. This unit is perfect anywhere direct venting or ducting is required, with up to 0.6" (15.2 mm) external static pressure. Use any grille and louvers for maximum design flexibility.

2.1 Components and structure

Figure 2. AIO™ Vertical Stack with ERV (R32) components and structure



1	Top supply air vent	13	Twin rotary inverter compressor
2	Front supply air vent	14	Electrical controls
3	Return air vent	15	Condensate drain pipe (behind the unit)
4	ECM supply air fan	16	Onboard touch Controller
5	ECM fresh air intake fan	17	Outdoor + stale air exhaust
6	ERV (hybrid recovery) core	18	Outdoor + fresh air intake
7	ECM stale air exhaust fan	19	ERV MERV 13 filters
8	Outdoor + fresh air intake	20	Side exhaust (can be field swapped to the right side)
9	ECM outdoor fan	21	ECM supply fan
10	High efficiency outdoor heat exchanger	22	Return air vent
11	Condensate drain pan	23	Condensate drain pan
12	Outdoor + stale air exhaust	24	High-efficiency indoor heat exchanger

2.2 Key Features

No outdoor unit

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

Twin rotary BLDC inverter compressor

The state-of-the-art, twin, rotary Brushless DC (BLDC) inverter compressor operates efficiently, quietly, and with minimal vibration. AIO™'s Vertical Stack unit is ideal for any room or area that requires between 3,900 and 14,400 Btu/hr.

Integrated ERV

AIO™'s integrated ERV eliminates the requirement of installing an independent ERV system, ducting, electrical work, and engineering.

Recovery plus™

With a patent-pending innovation, the AIO™ unit utilizes the hot or cold air after passing through the recovery core to lower or raise the temperature of the condenser, enabling a boost in performance and efficiency.

Integrated bathroom exhaust system

The integrated stale air exhaust can be used for bathrooms and kitchens, maintaining perfect air pressure and eliminating the need for a dedicated exhaust system. The bathroom exhaust can be field swapped to the left or right.

MERV 13 clean air

Clean outdoor air is essential to well-being and safety. The MERV 13 filter ensures that all air entering the room or home is clean and safe. Additionally, stale air is passed through a second MERV 13 filter, keeping the ERV core clean.

High-efficiency ECM fans with auto ESP

High-efficiency electronically commutated motor (ECM) fans enable efficient and quiet operation because the EC motor can ramp up or down as required. 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 and continues to operate at colder temperatures, even below -5°F (-20.6°C).

1,800-watt electric heat

The electric heat works in conjunction with the heat pump when the heat pump has insufficient power.

Intelligent defrosting

AIO™'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™ Vertical Stack is operating.

No outside noise infiltration

AIO™ 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

AIO™'s low-voltage connection enables connection to any Building Management System (BMS), key-card system, window sensors, fire alarms, etc. As long as a system 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

AIO™'s compact form does not use any line sets. This means that there is no need to access the sides of the unit. You can mount units with as little as 2.0" (50.8 mm) clearance on all sides.

Leak protection

If a drain becomes clogged, the system shuts down and activates an alarm, 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. An AIO™ unit can also be quickly swapped with a replacement, reducing downtime.

Versatile controls

The AIO™ unit includes an onboard touch controller and an optional iOS and Android app. AIO™ can be used with optional wall-mounted controllers, including a Thin Film Transistor (TFT) with a 7-day program, and third-party controllers from any company, using the optional third-party kit. An optional BACnet and Modbus module enables interfacing with building management systems.

3. AIRFLOW

3.1 Airflow Operation

The AIO™ Vertical Stack unit provides a high degree of flexibility. It can be fully ducted or used with minimal or no ducting. This enables the AIO™ Vertical Stack to be placed anywhere in a dwelling, with no restrictions.

- **Supply air**

The front, rectangular 7.3" (186 mm) x 20.4" (517 mm) supply air connection is ideal for a supply grille. With 0.6" WC (149.5 Pa) external static pressure (combined between return and supply), the top rectangular 6.5" (164 mm) x 19.5" (495 mm) supply air connection is ideal for ducting to one or more rooms. For added flexibility, it is possible to duct part of the airflow through the top and direct-vent the remainder through the front for ducting multiple rooms with minimal ductwork.

- **Stale air exhaust**

The 5" (125 mm) round stale air exhaust connection can be used as part of a plenum return without any ducting or can be ducted to a bathroom or multiple locations with up to 0.5" WC (124.5 Pa) external static pressure. It can be field-swapped to the left or right side.

- **Return air**

The left and right side 6" (160 mm) round connection can be ducted to one or more rooms with up to 0.6" WC (149.5 Pa) external static pressure (combined between return and supply). It can also be left open as a side plenum return. Each connection is fully independent with two ECM fans, each with auto ESP. Duct both, leave both open, or duct one and leave one open to a plenum.

For optimal performance, a fully ducted return configuration is recommended. Both return air openings must remain open and unobstructed during operation. The unit may be installed with both returns ducted, or with one return ducted and the other left open as a side plenum return.

- **Outside air intake**

The single 8" (203.2 mm) round outside air intake

connection can be accessed from the left, right, or rear and provides outside air for the condenser portion and fresh air. This can be ducted with up to 0.7" WC (174.4 Pa) external static pressure (combined between intake and exhaust).

- **Outside air exhaust**

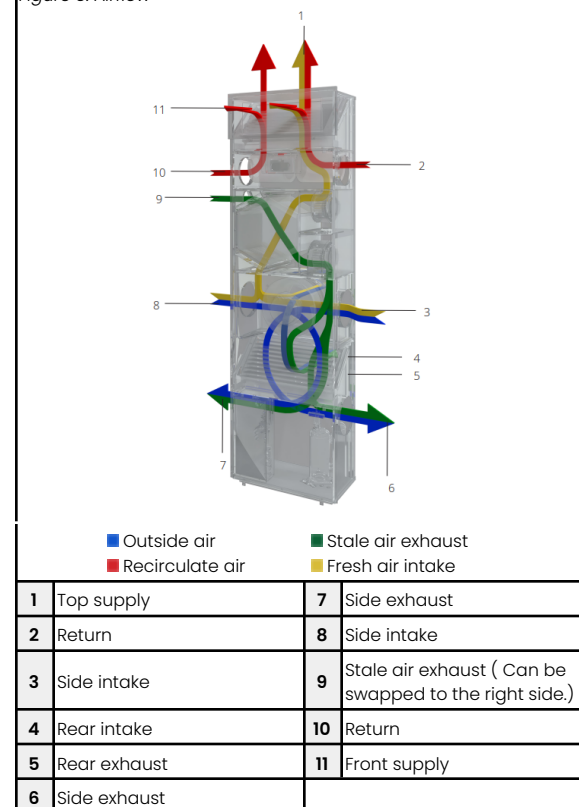
The single 8" (203.2 mm) round exhaust air connection can be accessed from the left, right, or rear, and exhausts the stale and condenser air. This can be ducted with up to 0.7" WC (174.4 Pa) external static pressure (combined between intake and exhaust).

- **Mix and match outside connections for total flexibility.**

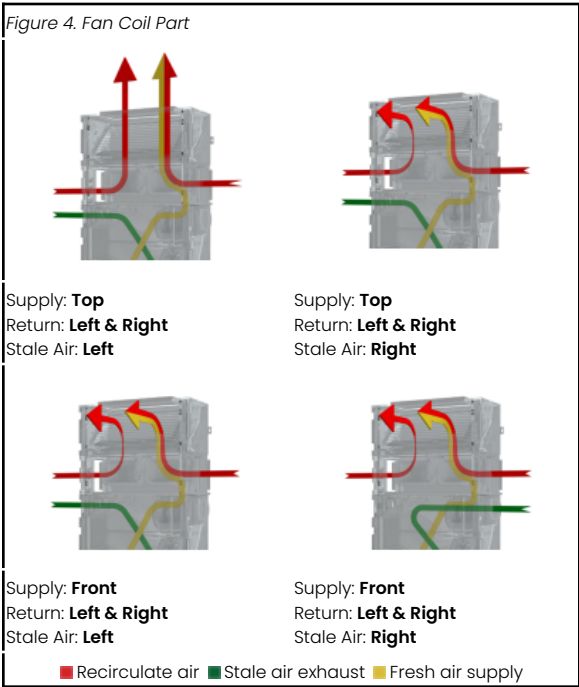
The upper outside connection (left, right, and rear) is for exhaust, and the outside lower connection (left, right, and rear) is for supply. It's possible to use any combination of connections. For example: Left for intake and rear for exhaust, or rear for intake and right for exhaust, etc.

3.2 Airflow Diagram

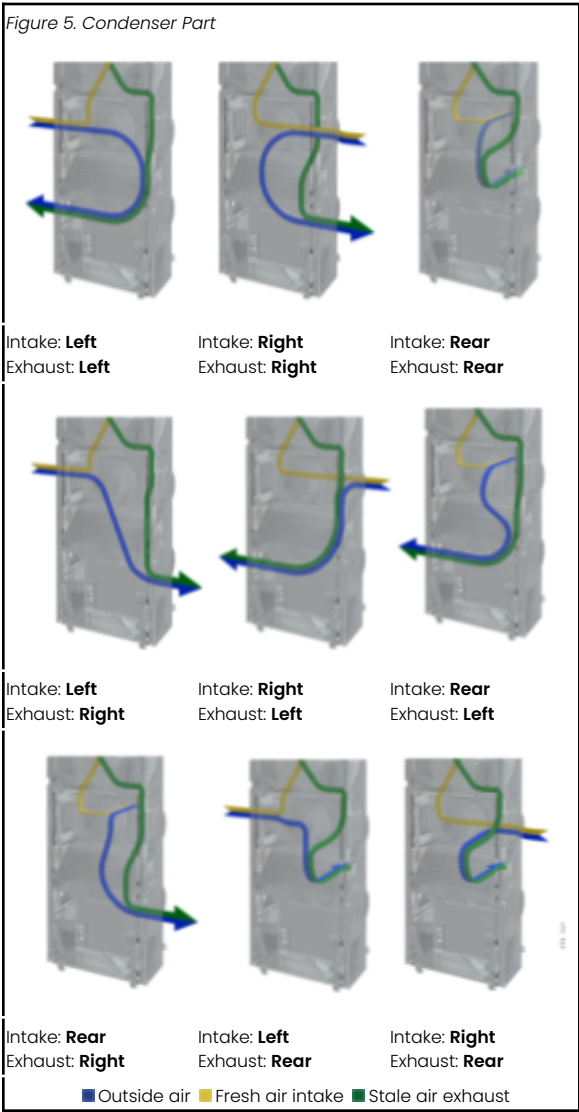
Figure 3. Airflow



3.3 Fan Coil Part

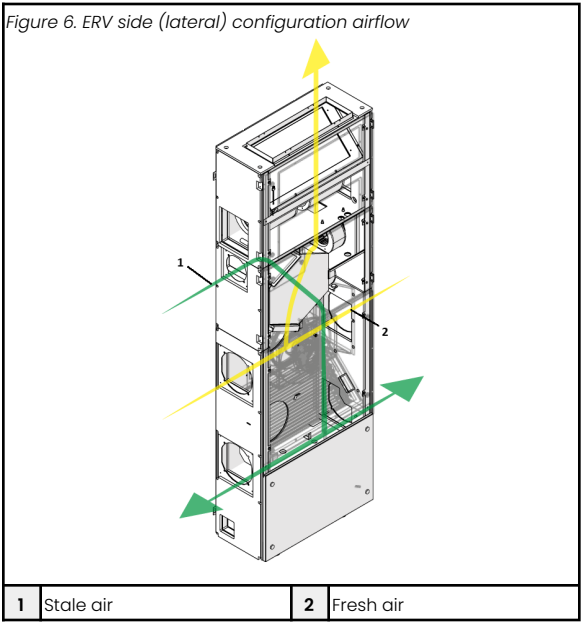


3.4 Condenser Part

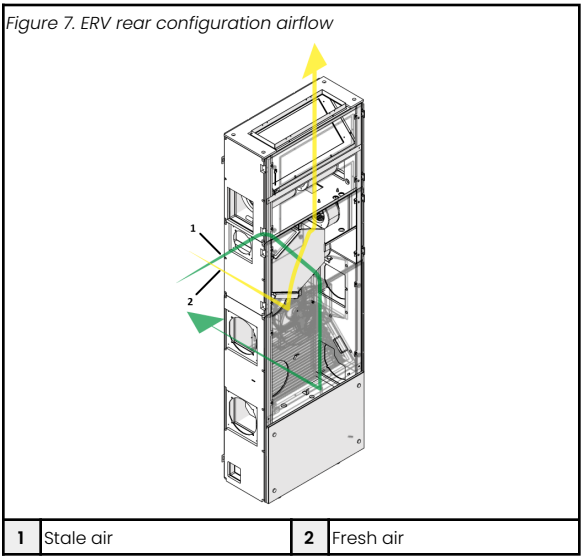


3.5 ERV airflow

3.5.1 ERV – Side (lateral) configuration

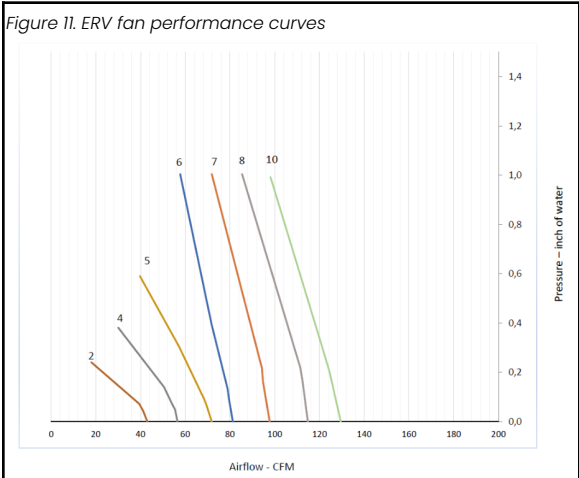
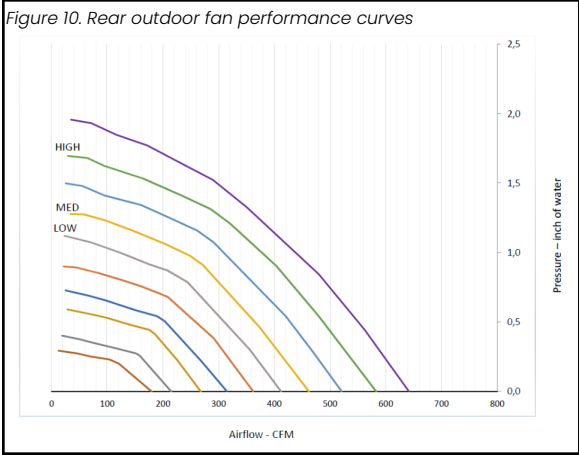
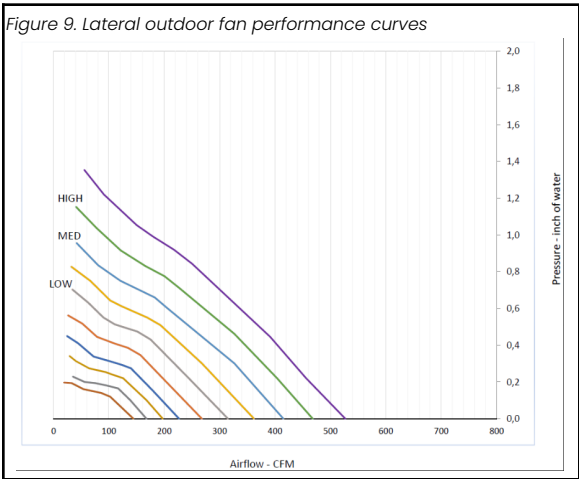
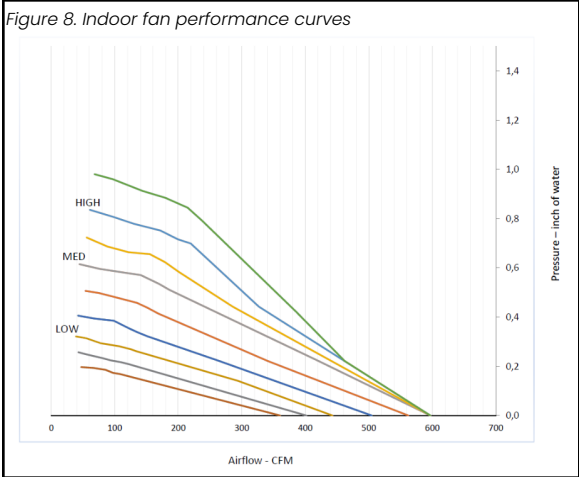


3.5.2 ERV – Rear configuration

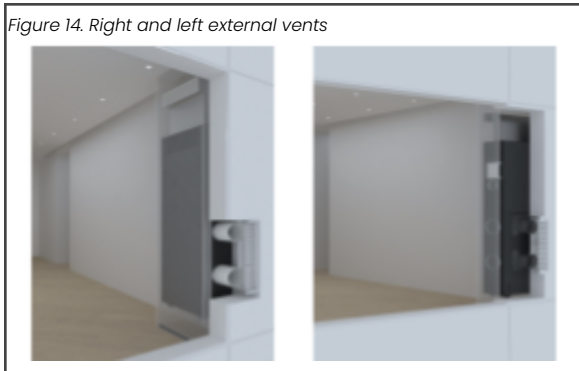
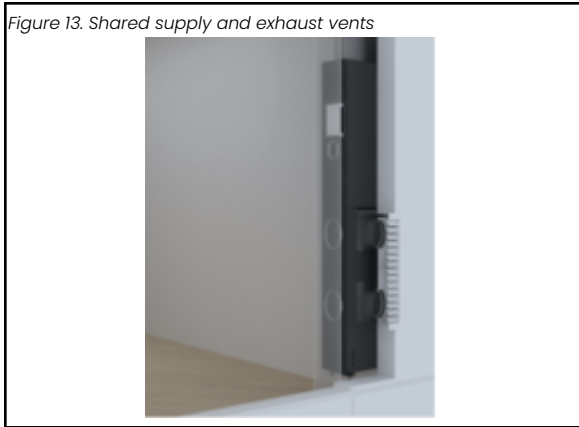


3.6 Fan curves

The following graphs illustrate airflow versus external static pressure at low, medium, and high fan speeds.



4. INSTALLATION REQUIREMENTS



4.1 Air Balancing Requirements

- All units must be properly air-balanced by a qualified, professional air-balancing company.
- Air balancing must be performed after installation and prior to final commissioning.
- A formal air balancing report must be completed and made available.
- Failure to perform air balancing properly may result in improper performance, system issues, and voiding of the warranty.

4.2 Startup airflow commissioning

Units require startup airflow commissioning. Select the indoor/outdoor airflow program to match the installed duct configuration and external static pressure. Adjust ERV ventilation airflow during startup and verify airflow in the field. See the [Installation Guide](#) for detailed setup and measurement procedures.

4.3 Low Ambient Heating Configuration Requirement

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

1. Turn on the unit.
2. Press and hold  for 10 seconds until "Fh" appears on the display.
3. Press and hold  for 5-10 seconds until "Fo" appears on the display.
4. Press and hold  for 5-10 seconds until "rE" appears on the display.
5. Wait a few seconds (without pressing any buttons) to exit the menu.

rE = Resistance heat mode

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

4.4 Ambient Temperature Protection

When installed in climates with ambient temperatures below freezing, the unit must be located in an

enclosed, temperature-protected indoor space that will not fall below 5°F (-15°C).



Secure any installation site insulation so that it cannot detach or be drawn into the unit's air openings. Failure to secure insulation may lead to unit damage and will void the warranty.

4.5 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.
- An electrical supply with a grounded 3-prong receptacle.
- A power supply circuit 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.
- If the unit must be operated during construction or renovation, the air filters and accessible coil surfaces must be inspected and cleaned daily before operation.
- Failure to perform daily cleaning during construction use may result in damage and will void the warranty.

- A power supply with a 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.
- A properly installed condensate drain line.
- An internal condensate drain line is highly recommended.
- If using an externally run condensate line, note the following:
 - The line must be properly insulated
 - The line must have a minimum slope of 2%.
 - If on a low floor, ensure that the end of the drain is above the maximum height of snow buildup.
- The factory-installed condensate drain is a 5/8" flexible drain pipe. To extend the drain line, insert the flexible pipe into a larger 3/4" PVC or equivalent plumbing pipe and secure it using an external clamp or approved method. Do not use internal couplings or barbed fittings that reduce the internal diameter of the drain line, as this may restrict flow and lead to drainage issues.

- Interior clearances are only required to prevent vibrations. Leave at least 2" (50.8 mm) of clearance from any surface. All other clearances are dependent on ducting.
- Approved louvers must be installed with best practices to ensure that no water enters the wall assembly.
- The unit is intended for ducted installation. Installation without ductwork may result in airflow performance issues.
- 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 unit must be properly affixed with screws to wall studs or other supporting material.
- Unblocked vents on the exterior and no obstacles within 36" (914.4 mm).
- An access panel with adequate clearance to the entire front of the unit for servicing.
- The outside air intake duct is intended to be installed as insulated ducting (with a minimum of R-8 insulation). Insulation reduces thermal losses during cooling operation and helps prevent freezing and condensation during heating operation, which may result in equipment or property damage.
- Vertical Stack units must be installed within an insulated closet that is thermally coupled to the conditioned space. Insulating the closet helps prevent exposure to extreme outdoor temperatures and limits temperature stratification, ensuring the unit reflects indoor conditions and reducing the risk of inaccurate temperature readings during both heating and cooling operations.
- INNOVA provides a mounting template to facilitate the installation process.

4.6 Louver specifications

AIO™ Vertical Stack units can be vented using many kinds of custom and creative solutions. The possibilities are endless, from perforated panels to custom louvers.

There are three critical factors when selecting and sizing a solution that works with AIO™ Vertical Stack units:

- **Air-path separation:** When a field-supplied louver or louver assembly serves both the outdoor-air intake and exhaust, provide a continuous, airtight, insulated separator between the intake and exhaust air paths. The separator must extend through the plenum to the exterior louver to prevent exhaust air from being drawn back into the intake. Exhaust-air recirculation can cause improper operation and unit short cycling.
- **Free area:** The area on a louver/grille that is open for the air to flow through. The louver, perforated panel, or other solution must have at least the amount of free area specified 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 0.34 square feet (0.03 m²) for the intake vent and 0.34 square feet (0.03 m²) 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 ducting (if any) and intake and exhaust louvers combined must be under 0.7" WC (174.4 Pa).

To be clear, the entire assembly of ductwork, plenums, and louvers for the complete air circuit,

in and out of the system, may not exceed 0.7" WC (174.4 Pa).

Any louver or louver assembly must meet these requirements, because exceeding these limits can cause the unit to overheat and fail. This will void the warranty.

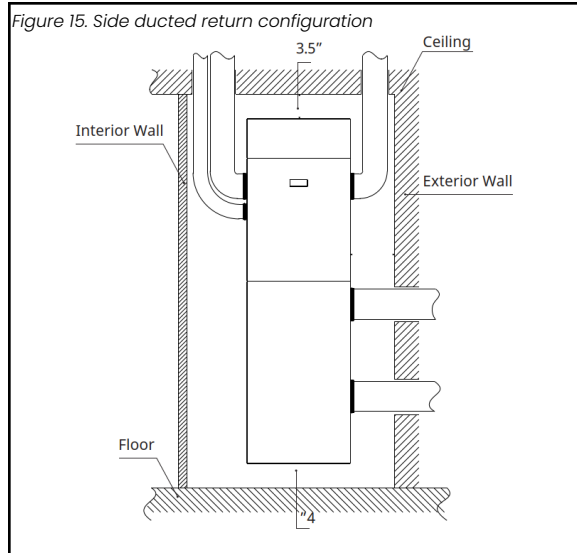
The following louvers are approved for AIO™ Vertical Stack units:

- **Sunvent:** LLA/C, LLA/M, LLA/s - available through your INNOVA distributor.
- **Therma duct:** RLA8 - available through your INNOVA distributor.

4.7 Clearance requirements

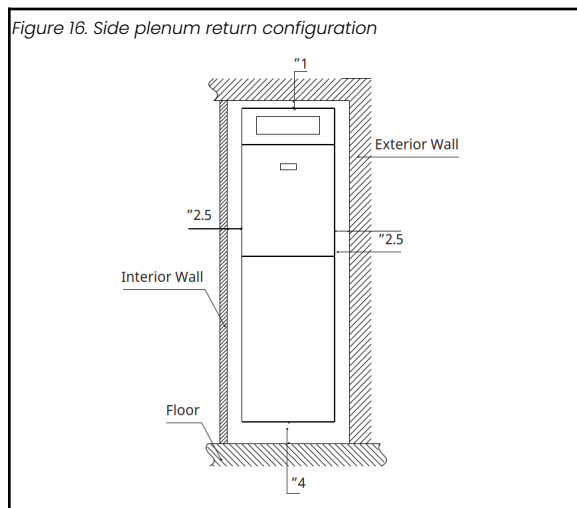
The AIO™ Vertical Stack unit's clearance will depend on how it is vented. Carefully read the criteria below to determine the correct clearance required.

- **Ceiling**
There must be a 2" (50 mm) minimum clearance between the unit and the ceiling to minimize noise from vibrations and for removing panels. If ducting through the top, ensure sufficient clearance to attach ductwork to the vent.
- **Bottom**
There must be a minimum of 1" (25.4 mm) clearance between the unit and the floor to minimize noise from vibrations. The unit sits on adjustable leveling legs, which can be removed to hang the unit on the wall.
- **Access Panel**
There must be an access panel of at least the size of the unit plus 2" (50 mm) all around. The recommended size is 88" (2235 mm) x 32" (813 mm). The minimum size is 86.4" (2195 mm) x 30.7" (779 mm). You can integrate a return and supply grille into the access panel door.
- **Sides**
The clearance required on the sides is dependent on how the unit is configured for return and stale exhaust air.
- **Side ducted return configuration**
The clearance required is based solely on ductwork design. Ensure sufficient clearance to be able to attach the ductwork to the side return.



- **Side plenum return configuration**

A minimum of 2.5" (63.5 mm) should be free for airflow on each side, to allow the air to flow into the returns.

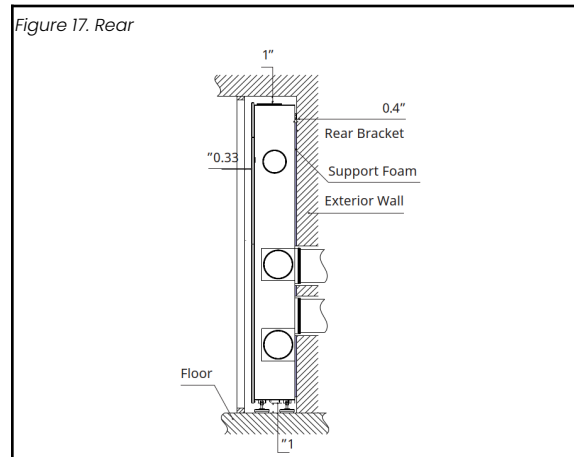


- **Front**

The clearance required in front of the unit to the access panel is 2" (50.8 mm) to minimize noise from vibrations.

- **Rear**

There must be a 2" (50.8 mm) minimum clearance between the unit and the wall to minimize noise from vibrations. If ducting the intake and exhaust from the rear, ensure sufficient clearance to attach the ductwork to the rear vents. Ensure that rear external vents do not have any barrier or wall for at least 36" (914.4 mm).



5. TECHNICAL SPECIFICATIONS

5.1 High Performance

5.1.1 Cooling

Table 1. High Performance - Cooling

Heat Pump only			95°F (35°C) (1)	105°F (40.6°C) (2)	115°F (46.1°C) (3)
Capacity	Maximum	BTU/hr	14,400	13,100	11,800
	Recommended*		9,790	8,500	7,800
	Rated		8,900	7,609	6,920
	Minimum		3,600	3,600	3,400
Input Power	Maximum	W	1,750	1,680	1,750
	Recommended*		953	970	1,060
	Rated		813	845	925
	Minimum		250	275	300
Efficiency	Maximum	EER	8.23	7.8	6.74
	Recommended*		10.27	8.8	7.40
	Rated	EER2	10.95	9.00	7.47
	Seasonal	SEER2	14.35	-	-
Moisture Removal		Pts/h	1.8	2.0	2.2
		L/hr	0.9	0.9	1.0

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.

5.1.2 Heating

Table 2. High 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	13,800	9,400	6,700	6,400	6,000
	Recommended*		10,000	9,000	6,500	6,127	5,800
	Rated		8,900	9,000	6,500	6,127	5,800
	Minimum		3,900	3,300	2,800	2,700	2,700
Input Power	Maximum	W	1,750	1,750	1,750	1,650	1,450
	Recommended*		820	1,148	1,108	1,075	1,036
	Rated		712	1,146	1,108	1,075	1,036
	Minimum		420	440	460	480	500
Efficiency	Maximum	COP	2.31	1.57	1.12	1.14	1.21
	Recommended*		3.60	2.30	1.72	1.67	1.64
	Rated		3.66	2.30	1.72	1.67	1.64
	Minimum		2.72	2.20	1.78	1.65	1.58
	Seasonal	HSPF2	9.85	-	-	-	-

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

5.2 Energy Star Compliant

5.2.1 Cooling

Table 3. Energy Star Compliant – Cooling

Heat Pump only			95°F (35°C) (1)	105°F (40.6°C) (2)	115°F (46.1°C) (3)
Capacity	Maximum	BTU/hr	14,400	13,100	11,800
	Recommended*		9,790	8,500	7,800
	Rated		7,500	7,609	6,920
	Minimum		3,600	3,600	3,400
Input Power	Maximum	W	1,750	1,680	1,750
	Recommended*		953	970	1,060
	Rated		647	845	925
	Minimum		250	275	300
Efficiency	Maximum	EER	8.23	7.80	6.74
	Recommended*		10.27	8.80	7.40
	Rated	EER2	11.6	9.00	7.47
	Seasonal	SEER2	15.35	-	-
Moisture Removal		Pts/h	1.8	2.0	2.2
		L/hr	0.9	0.9	1.0

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.

5.2.2 Heating

Table 4. Energy Star Compliant – Heating

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)
Capacity	Maximum	BTU/ hr	13,800	9,400	6,700	6,400	6,000
	Recommended*		10,000	9,000	6,500	6,127	5,800
	Rated		8,200	8,900	6,400	6,127	5,800
	Minimum		3,900	3,300	2,800	2,700	2,700
Input Power	Maximum	W	1,750	1,750	1,750	1,650	1,450
	Recommended*		820	1,148	1,108	1,075	1,036
	Rated		656	1,132	1,072	1,075	1,036
	Minimum		420	440	460	480	500
Efficiency	Maximum	COP	2.31	1.57	1.12	1.14	1.21
	Recommended*		3.60	2.30	1.72	1.67	1.64
	Rated		3.66	2.30	1.75	1.67	1.64
	Minimum		2.72	2.20	1.78	1.65	1.58
	Seasonal	HSPF2	9.85	-	-	-	-

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

5.3 ERV

Table 5. ERV

General		
Flow type	Counterflow enthalpy exchanger	
Material	Mold and bacteria-resistant, washable polymer membrane	
ASHRAE compliance	62.1 and 62.2 when used with the ERV module	
Flow	CFM	10-80
	m ³ /h	17-136

Table 6. ERV

		40 CFM (68 m ³ /hr)	60 CFM (102 m ³ /hr)	80 CFM (136 m ³ /hr)
Efficiency of core in winter At 47°F (8.3°C)	Sensible	81.4%	77.7%	74%
	Latent	58.1%	54.23%	50.4%
Efficiency of core in summer AT 95°F (35°C)	Sensible	80.7%	76.61%	72.6%
	Latent	57.6%	53.4%	49.32%
Filter	Indoor air	MERV 3 / optional MERV 13		
	Outside air	MERV 13		
Leakage	Internal	2.6% at 0.40" WC (99.5 Pa)	2.4% at 0.40" WC (99.5 Pa)	2.2% at 0.40" WC (99.5 Pa)
	External	2.8% at 1.0" WC (248.8 Pa)	2.7% at 1.0" WC (248.8 Pa)	2.5% at 1.0" WC (248.8 Pa)

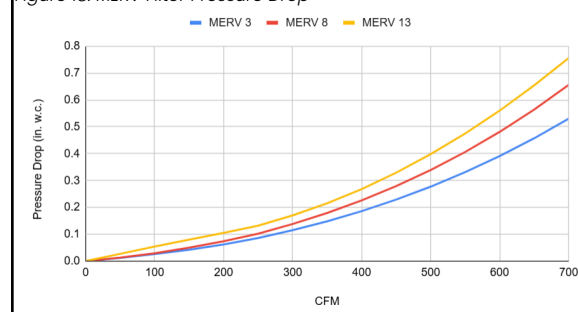
5.4 Airflow

5.4.1 Indoor

Table 7. Airflow - Indoor

Air volume		
Indoor	Type	ECM centrifugal
	CFM Range	226 - 400
	m ³ /hr	384 - 680
	Nominal CFM	350
	Nominal m ³ /hr	595
	Available ESP at Nominal CFM	0.4" WC (99.5 Pa)
	Supply connection	Top or front
	Return connection	Side - 2 required
	Speeds	Low, med, high, boost, auto
	Filter	MERV 3 - Optional MERV 8/13

Figure 18. MERV Filter Pressure Drop



5.4.2 Outdoor

Table 8. Airflow - Outdoor

Air volume		
Outdoor	Type	ECM centrifugal
	CFM Range	385 - 638
	m ³ /hr	654 - 1084
	Nominal CFM	400
	Nominal m ³ /hr	680
	Available ESP at Nominal	0.7" WC (174.4 Pa)
	Intake and Exhaust Connection	8" (203 mm) round
	Speeds	Low, med, high, auto

5.5 Sound

Table 9. Sound

Sound			
Location	Distance	Fan Speed	Sound Level (dB(A))
Indoor	1 m	Level 1 - Low	40
		Level 2 - Medium	49
		Level 3 - High	50
	3 m	Level 1 - Low	32
		Level 2 - Medium	41
		Level 3 - High	42
Outdoor	-	Range	28 - 55

5.6 General

5.6.1 Controls

Table 10. General - Controls

Controls	
Basic functionality	Dependent on the controller
WiFi	Optional module available
Dry contact	Yes
Power outage restart	Auto-on based on the last setting

5.6.2 Modes

Table 11. General - Modes

Modes	
Operation	Cool + fresh air, cool only, heat + fresh air, heat only, auto
Restricted modes	Heat only, cool only, temperature limiting
Timers	Dependent on the controller

5.6.3 Condensate

Table 12. General - Condensate

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

5.6.4 Physical



For detailed dimensions, refer to the drawings in [Section 7](#).

Table 13. General - Physical

Physical data			
Dimensions		in	28.7 W x 84.4 H x 12.4 D
		mm	729 W x 2145 H x 315 D
Weight	Net	lb	170
		kg	77.1
	Gross	lb	190
		kg	86.1
Cabinet	Finish		Black covered with dark gray EPDM
	Material		Steel

5.6.5 Compressor

Table 14. General - Compressor

Compressor		
Type	BLDC twin rotary inverter	
Refrigerant	Type	R32
	Quantity	24 oz.
		0.7 kg
Oil Type	Fv50s (ISO 50)	

5.6.6 Insulation

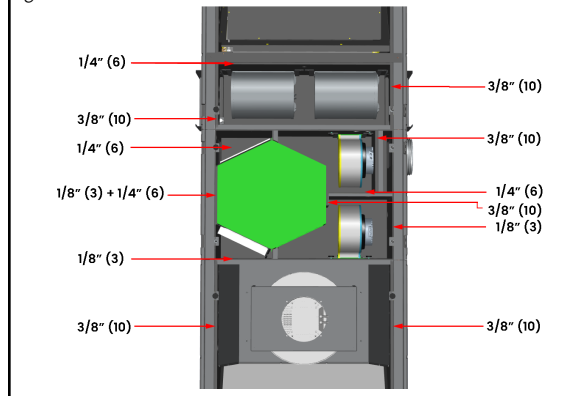
Table 15. General - Insulation

Thermal conductivity at 50°F	0.239 BTU*in/(hr-ft²*°F)
Thermal conductivity at 10°C	0.0344 W/(m·K)



Insulation R-value is determined by dividing the insulation thickness by the thermal conductivity (k-value). Insulation thickness varies by component and configuration.

Figure 19. Insulation Thickness



5.7 Electrical

5.7.1 General

Table 16. Electrical - General

General		115V	230V
Volt range		103 - 127	180 - 253
Hz/phase		60 Hz / single phase	
Power input connection		Hardwire	LDCI power cord or hardwire
Power factor		0.96	
Input power (standby)	W	10.8	
Input power (off mode)		1.5	
Heat Pump Only			
Cooling (nominal)	A	15.9	7.9
Cooling (max)		22.0	10.5
Heating - heat pump only (nom.)		15.9	7.9
Heating-heat pump only (max)		22.0	10.5
Heat Pump + 900 W Electric Heater			
Maximum	A	30.2	-
Heat Pump + 1,800 W Electric Heater			
Maximum	A	-	18.3
Heat Pump + 2,700 W Electric Heater			
Maximum	A	-	22.2
Heat Pump + 1,800 W Electric Heater + 1 kW Preheater			
Maximum	A	-	22.7
Heat Pump + 2,700 W Electric Heater + 1 kW Preheater			
Maximum	A	-	26.6

Table 17. Electrical - Circuit breakers

Circuit breakers			115V	208V	230V	240V
Heat Pump Only	MCA	A	26	14	12	11
	MOCP		35	15	15	15
Heat Pump + 900W Elec Heat	MCA	A	34	-	-	-
	MOCP		45	-	-	-
Heat Pump + 1,800W Elec Heat	MCA	A	-	20	20	20
	MOCP		-	25	25	25
Heat Pump + 2,700W Elec Heat	MCA	A	-	24	24	25
	MOCP		-	30	25	25
Heat Pump + 1800W Elec Heat + 1 kW Preheat	MCA	A	-	25	25	25
	MOCP		-	30	25	25
Heat Pump + 2700W Elec Heat + 1 kW Preheat	MCA	A	-	28	29	29
	MOCP		-	30	30	30

5.7.2 Motors

Table 18. Electrical - Motors

Motors			115V	208V	230V	240V
Compressor	RLA	A	13	6.6	6	5.8
	LRA		13	6.6	6	5.8
Indoor ECM fan motor	Watts (max)	W	200			
	FLA	A	2.4	1.33	1.2	1.15
	Power	HP	1/10			
Outdoor ECM fan motor	Watts (max)	w	320	425		
	FLA	A	3	2.2	2	1.9
	Power	HP	1/10	1/8	1/8	1/8
ERV ECM Fan Motor	Watts (max)	W	220	140		
	FLA	A	3	1.1	1	0.95
	Power	HP	1/10			

5.7.3 LCDI power cords

Table 19. Electrical – LCDI Power cords

LCDI Power Cord		115V	230V
Heat Pump Only	Amps	LCDI cord is not available above 20 A.	15
	Plug Type		6-15P
Heat Pump+1800 W Elec Heat + ERV	Amps		20
	Plug Type		6-20P
Heat Pump+2,700 W Elec Heat + ERV	Amps		LCDI cord is not available above 20 A.
	Plug Type		
Heat Pump+1,800 W Elec Heat+Preheater+ERV	Amps		
	Plug Type		
Heat Pump+2,700 W Elec Heat+Preheater+ERV	Amps		
	Plug Type		



For units requiring a breaker size above 20 A, a quick-connect whip cord is available as an accessory (60" (1524 mm) length).

5.7.4 Heater Output (W) and Heater Current (A) vs. Supply Voltage

Table 20. Heater Output (W) and Heater Current (A) vs. Supply Voltage

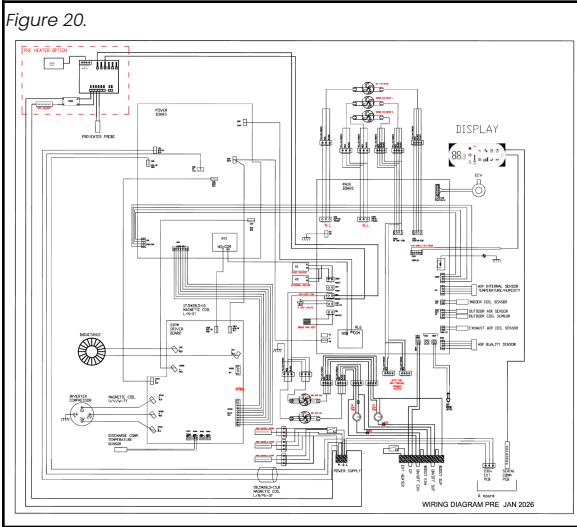
Volt/Watt	1000W	900W	1800W	2700W
115V	N/a	900W / 7.8A	N/A	N/A
208V	818W / 3.9A	736W / 3.5A	1472W / 7.1A	2200W / 10.6A
230V	1000W / 4.3A	900W / 3.9A	1800W / 7.8A	2700W / 11.7A
240V	1089W / 4.5A	980W / 4.1A	1960W / 8.2A	3000W / 12.5A

6. WIRING DIAGRAM – 230V

6.1 Units produced before January, 2026

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

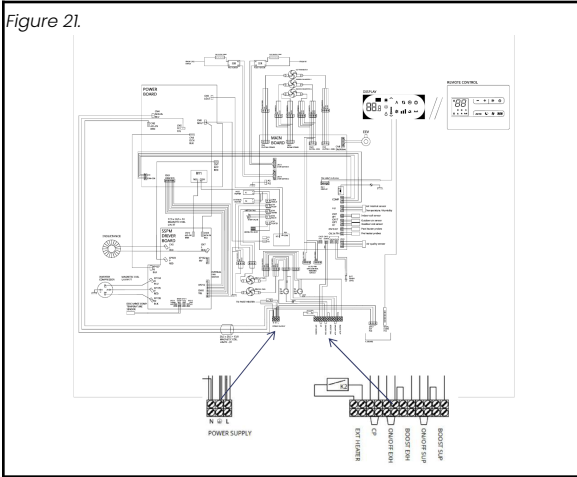
[PDF AIO Vertical Stack \(Gen 3\) Wiring Diagram \(Pre-J...](#)



6.2 Units produced after January, 2026

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

[PDF AIO Vertical Stack \(Gen 3\) Wiring Diagram \(Post-...](#)



7. DIMENSIONS

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

[PDF AIO Vertical Stack \(Gen 3\) with Electric Heaters D...](#)

Figure 22. Vertical Stack Dimensions

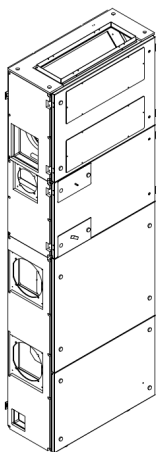


Figure 23. Top view

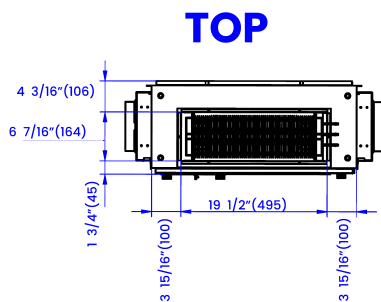


Figure 24. Left view

LEFT

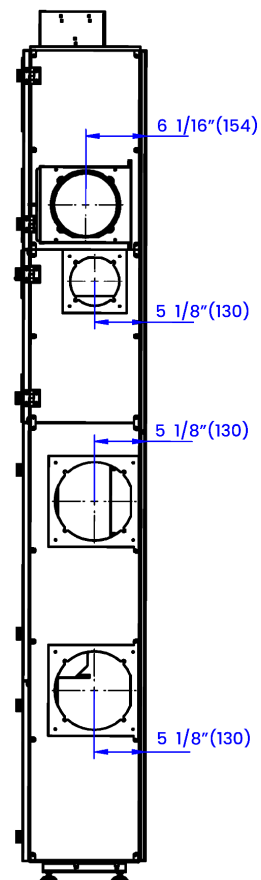


Figure 25. Front view

FRONT

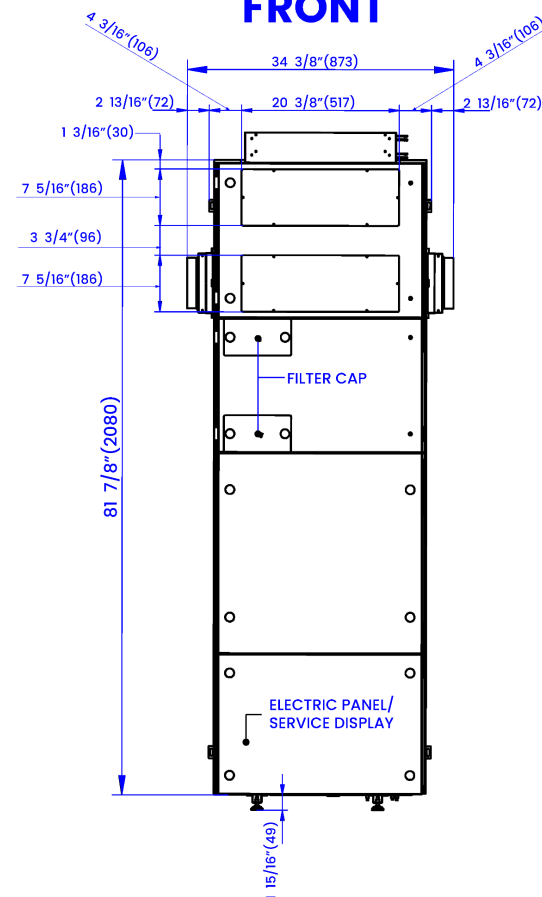
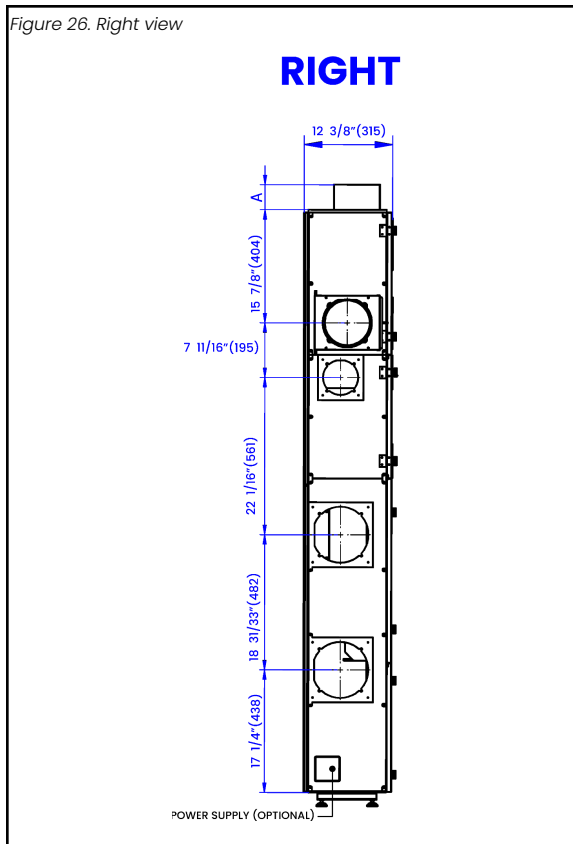


Figure 26. Right view



HEATER OPTIONS (A in Diagram)	Height
1.8 kW	0.63\" (16)
2.7 kW	3.5\" (89)

Figure 27. Rear view

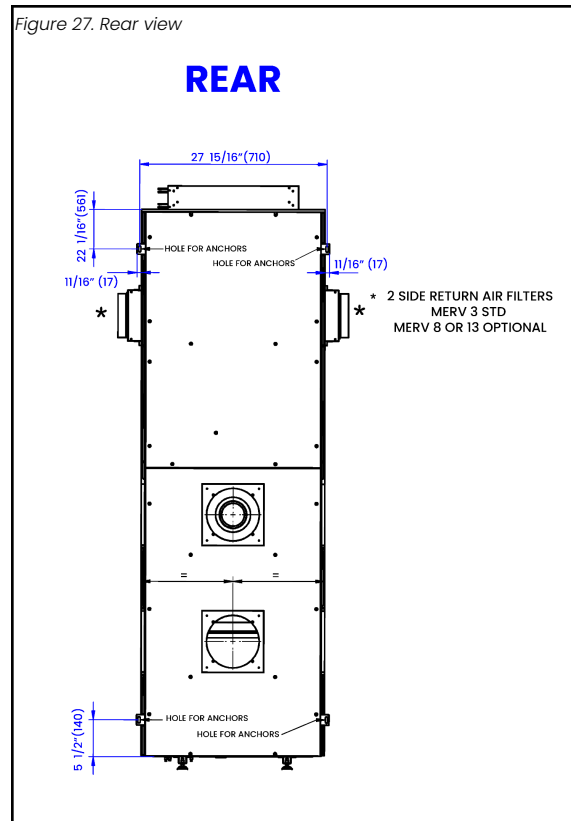
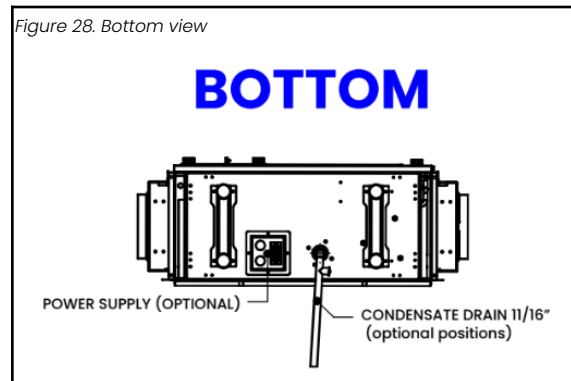


Figure 28. Bottom view



8. WARRANTY

8.1 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.

8.2 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.

8.3 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...](#)

9. SUBMITTALS

9.1 115V Heat pump only - High Performance

AIO™ VERTICAL STACK - 115V - NO ELECTRIC HEAT WITH ERV - R32 - SUBMITTAL (AVP10R3H1)

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

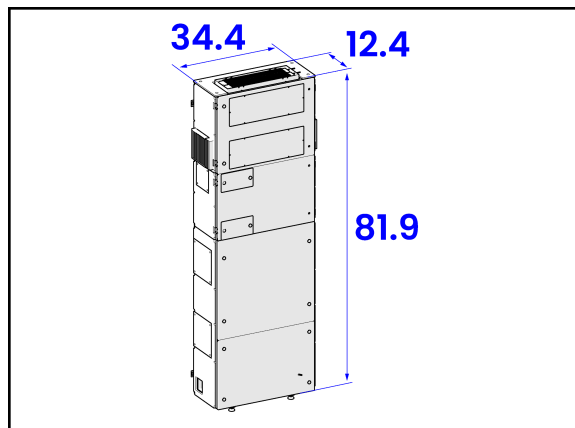
General Features

- BLDC inverter compressor
- ECM fans
- R32 Refrigerant
- Auto restart
- Intelligent defrost
- No outdoor unit
- Condensate disbursement systems
- Onboard touch controller
- Integrated ERV
- Washable filter
- Electronically controlled air louver
- Compact, slim design
- 4 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	Min-Max	BTU/H	14,400 - 3,600
	Rated capacity (95°F [35°C])		8,900
	Efficiency	EER2	10.95
Heating	Min-Max	BTU/H	13,800 - 3,900
	Rated capacity (47°F [8.3°C])		8,900
	Rated capacity (5°F [-15°C])		6,500
	Efficiency	COP	3.66
Sound	Indoor: Low-High at 1 m distance	db(A)	40 - 50
	Indoor: Low-High at 3 m distance		32 - 42
	Outdoor sound range		28 - 55
Moisture removal		Pts/h	1.8
		L/hr	0.9
Airflow	Indoor	CFM	226 - 400
		m³/hr	384 - 680
	Outdoor	CFM	385 - 638
		m³/hr	654 - 1084

Electric Specifications	
Power Supply (V/Ph/Hz)	115V/1Ph/60Hz
Voltage Range	103-127
Running Amps Cooling	15.9
Running Amps Heating	15.9
MCA	26
Maximum Overcurrent Protection (A)	35
Max Power Input (amps) Cooling	22.0
Max Power Input (amps) Heating	22.0

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
☐	LCDI is not available over 20A for 115V units		

9.2 115V Heat pump + elec heat – High Performance

AIO™ VERTICAL STACK – 115V – 900W ELECTRIC HEAT – R32 WITH ERV – SUBMITTAL (AVE10R3HI)

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

General Features

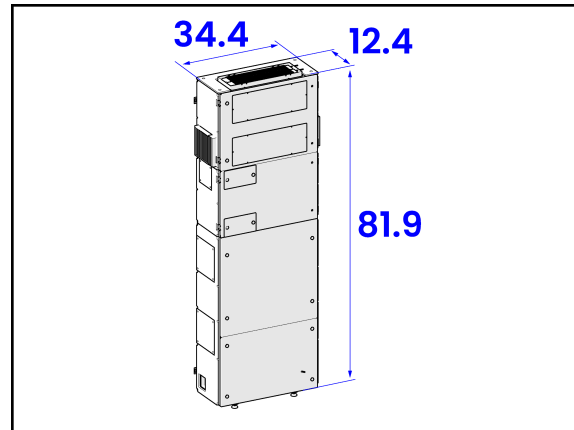
- BLDC inverter compressor
- ECM fans
- R32 Refrigerant
- Field configured 900W electric heat supplement
- Auto restart
- Intelligent defrost
- No outdoor unit
- Onboard touch controller
- Integrated ERV
- Washable filter
- Compact, slim design
- 4 selectable fan speeds + Auto
- 10-Year limited warranty (after certification)
- Made in Italy
- Condensate disbursement systems



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	Min-Max	BTU/H	14,400 – 3,600
	Rated capacity (95°F [35°C])		8,900
	Efficiency	EER2	10.95
Heating	Min-Max	BTU/H	13,800 – 3,900
	Rated capacity (47°F [8.3°C])		8,900
	Rated capacity (5°F [-15°C])		6,500
	Efficiency	COP	3.66
Sound	Indoor: Low-High at 1 m distance	db(A)	40 – 50
	Indoor: Low-High at 3 m distance		32 – 42
	Outdoor sound range		28 – 55
Moisture removal		Pts/h	1.8
		L/hr	0.9
Airflow	Indoor	CFM	226 – 400
		m³/hr	384 – 680
	Outdoor	CFM	385 – 638
		m³/hr	654 – 1084

Electric Specifications	
Power Supply (V/Ph/Hz)	115V/1Ph/60Hz
Voltage Range	103-127
Running Amps Cooling	15.9
Running Amps Heating	15.9
MCA	34
Maximum Overcurrent Protection (A)	45
Max Power Input (amps) Cooling	22.0
Max Power Input (amps) Heating	30.2

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	EEOSI2
☐	Simple EOS Controller	SEOSI2
☐	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
☐	LCDI is not available over 20A for 115V units		

9.3 230V Heat pump only – High Performance

AIO™ VERTICAL STACK – 230V –NO ELECTRIC HEAT WITH ERV – R32 – SUBMITTAL (AVPIOR3H2)

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

General Features

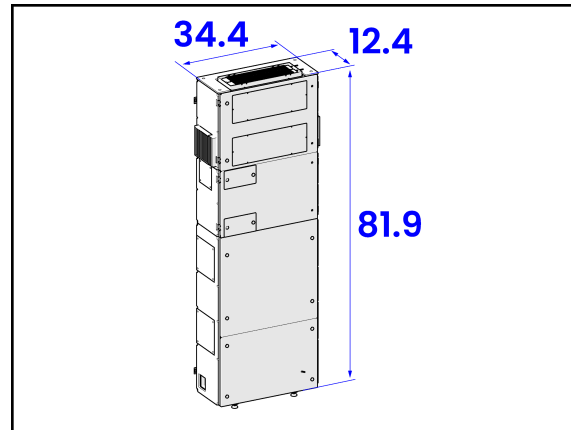
- BLDC inverter compressor
- ECM fans
- R32 Refrigerant
- Auto restart
- Intelligent defrost
- No outdoor unit
- Condensate disbursement systems
- Onboard touch controller
- Integrated ERV
- Washable filter
- Compact, slim design
- 4 selectable fan speeds + Auto
- 10-Year limited warranty (after certification)
- 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	Min-Max	BTU/H	14,400 – 3,600
	Rated capacity (95°F [35°C])		8,900
	Efficiency	EER2	10.95
Heating	Min-Max	BTU/H	13,800 – 3,900
	Rated capacity (47°F [8.3°C])		8,900
	Rated capacity (5°F [-15°C])		6,500
	Efficiency	COP	3.66
Sound	Indoor: Low-High at 1 m distance	db(A)	40 – 50
	Indoor: Low-High at 3 m distance		32 – 42
	Outdoor sound range		28 – 55
Moisture removal		Pts/h	1.8
		L/hr	0.9
Airflow	Indoor	CFM	226 – 400
		m³/hr	384 – 680
	Outdoor	CFM	385 – 638
		m³/hr	654 – 1084

Electric Specifications	
Power Supply (V/Ph/Hz)	230V/1Ph/60Hz
Voltage Range	180 – 253
Running Amps Cooling	7.9
Running Amps Heating	7.9
MCA	12
Maximum Overcurrent Protection (A)	15
Max Power Input (amps) Cooling	10.5
Max Power Input (amps) Heating	10.5

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	EEOSI2
☐	Simple EOS Controller	SEOSI2
☐	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
☐	89 in. (2260.6 mm)	6-15P	L259A

9.4 230V Heat pump + 1,800W elec heat – High Performance

AIO™ VERTICAL STACK – 230V – 1,800W ELECTRIC HEAT STRIP WITH ERV – R32 – SUBMITTAL (AVK10R3H2)

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

General Features

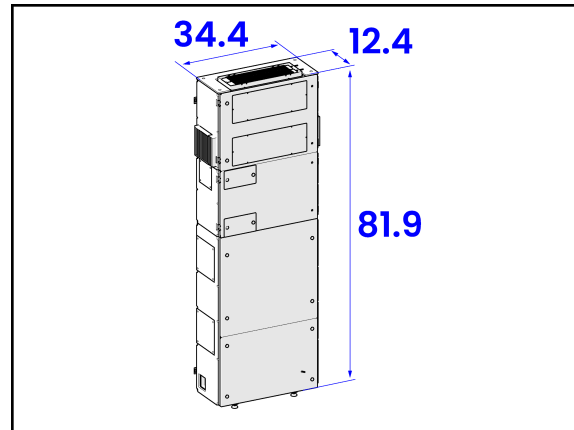
- BLDC inverter compressor
- ECM fans
- R32 Refrigerant
- Field configured 900W or 1,800W electric heat supplement
- Auto restart
- Intelligent defrost
- No outdoor unit
- Onboard touch controller
- Integrated ERV
- Washable filter
- Compact, slim design
- 4 selectable fan speeds + Auto
- 10-Year limited warranty (after certification)
- Made in Italy
- Condensate disbursement systems



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	Min-Max	BTU/H	14,400 – 3,600
	Rated capacity (95°F [35°C])		8,900
	Efficiency	EER2	10.95
Heating	Min-Max	BTU/H	13,800 – 3,900
	Rated capacity (47°F [8.3°C])		8,900
	Rated capacity (5°F [-15°C])		6,500
	Efficiency	COP	3.66
Sound	Indoor: Low-High at 1 m distance	db(A)	40 – 50
	Indoor: Low-High at 3 m distance		32 – 42
	Outdoor sound range		28 – 55
Moisture removal		Pts/h	1.8
		L/hr	0.9
Airflow	Indoor	CFM	226 – 400
		m³/hr	384 – 680
	Outdoor	CFM	385 – 638
		m³/hr	654 – 1084

Electric Specifications	
Power Supply (V/Ph/Hz)	230V/1Ph/60Hz
Voltage Range	180 – 253
Running Amps Cooling	7.9
Running Amps Heating	7.9
MCA	20
Maximum Overcurrent Protection (A)	25
Max Power Input (amps) Cooling	10.5
Max Power Input (amps) Heating	18.3

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	EEOSI2
☐	Simple EOS Controller	SEOSI2
☐	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
☐	89 in. (2260.6 mm)	6-20P	L229A

9.5 230V Heat pump + 2,700W elec heat – High Performance

AIO™ VERTICAL STACK – 230V – 2,700W ELECTRIC HEAT STRIP WITH ERV – R32 – SUBMITTAL (AVLI0R3H2)

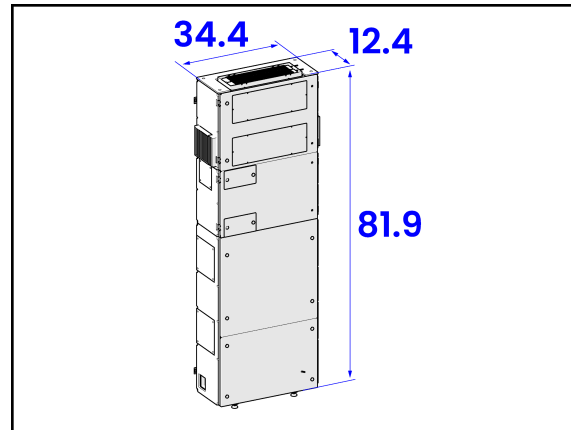
Job	Reference	Construction
Location	Approval	Quote Number
Engineer	Date	Drawing Number
Submitted To	Submitted By	P.O. Number

General Features

- BLDC inverter compressor
- ECM fans
- R32 Refrigerant
- Field configured 2,700W electric heat supplement
- Auto restart
- Intelligent defrost
- No outdoor unit
- Condensate disbursement systems
- Onboard touch controller
- Integrated ERV
- Washable filter
- Compact, slim design
- 4 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	Min-Max	BTU/H	14,400 – 3,600
	Rated capacity (95°F [35°C])		8,900
	Efficiency	EER2	10.95
Heating	Min-Max	BTU/H	13,800 – 3,900
	Rated capacity (47°F [8.3°C])		8,900
	Rated capacity (5°F [-15°C])		6,500
	Efficiency	COP	3.66
Sound	Indoor: Low-High at 1 m distance	db(A)	40 – 50
	Indoor: Low-High at 3 m distance		32 – 42
	Outdoor sound range		28 – 55
Moisture removal		Pts/h	1.8
		L/hr	0.9
Airflow	Indoor	CFM	226 – 400
		m³/hr	384 – 680
	Outdoor	CFM	385 – 638
		m³/hr	654 – 1084

Electric Specifications	
Power Supply (V/Ph/Hz)	230V/1Ph/60Hz
Voltage Range	180 – 253
Running Amps Cooling	7.9
Running Amps Heating	7.9
MCA	24
Maximum Overcurrent Protection (A)	25
Max Power Input (amps) Cooling	10.5
Max Power Input (amps) Heating	22.2

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
☐	LCDI is not available over 20A for 230V units.		

9.6 230V Heat pump + 1,000W pre-heat + 1,800W post-heat - High Performance

AIO™ VERTICAL STACK - 230V - 1,000W PRE-HEAT - 1,800W POST-HEAT - ELECTRIC HEAT STRIP - R32 - SUBMITTAL (AVUI0R3H2)

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

General Features

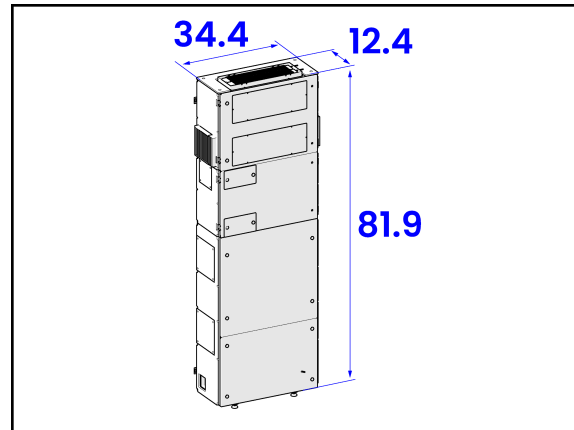
- BLDC inverter compressor
- ECM fans
- R32 Refrigerant
- Field configured 1,800W electric heat supplement
- Field configured 1kW preheat
- Auto restart
- Intelligent defrost
- No outdoor unit
- Condensate disbursement systems
- Onboard touch controller
- Integrated ERV
- Washable filter
- Compact, slim design
- 4 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	Min-Max	BTU/h	14,400 - 3,600
	Rated capacity (95°F [35°C])		8,900
	Efficiency	EER2	10.95
Heating	Min-Max	BTU/h	13,800 - 3,900
	Rated capacity (47°F [8.3°C])		8,900
	Rated capacity (5°F [-15°C])		6,500
	Efficiency	COP	3.66
Sound	Indoor: Low-High at 1 m distance	db(A)	40 - 50
	Indoor: Low-High at 3 m distance		32 - 42
	Outdoor sound range		28 - 55
Moisture removal		Pts/h	1.8
		L/hr	0.9
Airflow	Indoor	CFM	226 - 400
		m³/hr	384 - 680
	Outdoor	CFM	385 - 638
		m³/hr	654 - 1084

Electric Specifications	
Power Supply (V/Ph/Hz)	230V/1Ph/60Hz
Voltage Range	180 - 253
Running Amps Cooling	7.9
Running Amps Heating	7.9
MCA	25
Maximum Overcurrent Protection (A)	25
Max Power Input (amps) Cooling	10.5
Max Power Input (amps) Heating	22.7

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
☐	LCDI is not available over 20A for 230V units.		

9.7 230V Heat pump + 1,000W pre-heat + 2,700W post-heat - High Performance

AIO™ VERTICAL STACK - 230V - 1,000W PRE-HEAT - 2,700W POST-HEAT - ELECTRIC HEAT STRIP - R32
-SUBMITTAL (AVV10N3H2)

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

General Features

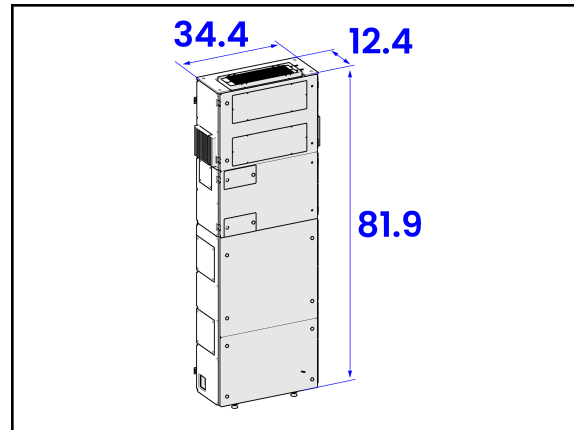
- BLDC inverter compressor
- ECM fans
- R32 Refrigerant
- Field configured 900W, 1,800W, or 2,700W post-heater supplement
- Field configured 500W, or 1,000W pre-heater supplement
- Auto restart
- Intelligent defrost
- No outdoor unit
- Condensate disbursement systems
- Onboard touch controller
- Washable filter
- Compact, slim design
- 4 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	Min-Max	BTU/H	14,400 - 3,600
	Rated capacity (95°F [35°C])		8,900
	Efficiency	EER2	10.95
Heating	Min-Max	BTU/H	13,800 - 3,900
	Rated capacity (47°F [8.3°C])		8,900
	Rated capacity (5°F [-15°C])		6,500
	Efficiency	COP	3.66
Sound	Indoor: Low-High at 1 m distance	db(A)	40 - 50
	Indoor: Low-High at 3 m distance		32 - 42
	Outdoor sound range		28 - 55
Moisture removal		Pts/h	1.8
		L/hr	0.9
Airflow	Indoor	CFM	226 - 400
		m³/hr	384 - 680
	Outdoor	CFM	385 - 638
		m³/hr	654 - 1084

Electric Specifications	
Power Supply (V/Ph/Hz)	230V/1Ph/60Hz
Voltage Range	180 - 253
Running Amps Cooling	7.9
Running Amps Heating	7.9
MCA	29
Maximum Overcurrent Protection (A)	30
Max Power Input (amps) Cooling	10.5
Max Power Input (amps) Heating	26.6

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	EEOSI2
☐	Simple EOS Controller	SEOSI2
☐	Integration gateway for LTCH20, TFTH20 and MODBUS	GWN
☐	Integration gateway for LTCH20, TFTH20, MODBUS, BACnet, and third-party thermostats	GWX

9.8 115V Heat pump only - Energy Star Compliant

AIO™ VERTICAL STACK - 115V - NO ELECTRIC HEAT WITH ERV - R32 - SUBMITTAL (AVP09R3HI)

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

General Features

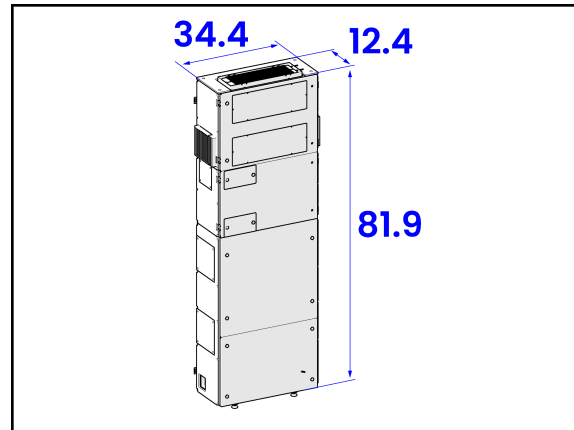
- BLDC inverter compressor
- ECM fans
- R32 Refrigerant
- Auto restart
- Intelligent defrost
- No outdoor unit
- Condensate disbursement systems
- Onboard touch controller
- Integrated ERV
- Washable filter
- Electronically controlled air louver
- Compact, slim design
- 4 selectable fan speeds + Auto
- 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	Min-Max	BTU/H	14,400 - 3,600
	Rated capacity (95°F [35°C])		7,500
	Efficiency	EER2	11.6
Heating	Min-Max	BTU/H	13,800 - 3,900
	Rated capacity (47°F [8.3°C])		8,200
	Rated capacity (5°F [-15°C])		6,400
	Efficiency	COP	3.66
Sound	Indoor: Low-High at 1 m distance	db(A)	40 - 50
	Indoor: Low-High at 3 m distance		32 - 42
	Outdoor sound range		28 - 55
Moisture removal		Pts/h	1.8
		L/hr	0.9
Airflow	Indoor	CFM	226 - 400
		m³/hr	384 - 680
	Outdoor	CFM	385 - 638
		m³/hr	654 - 1084

Electric Specifications	
Power Supply (V/Ph/Hz)	115V/1Ph/60Hz
Voltage Range	103-127
Running Amps Cooling	15.9
Running Amps Heating	15.9
MCA	26
Maximum Overcurrent Protection (A)	35
Max Power Input (amps) Cooling	22.0
Max Power Input (amps) Heating	22.0

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	EEOSI2
☐	Simple EOS Controller	SEOSI2
☐	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
☐	LCDI is not available over 20A for 115V units		

9.9 115V Heat pump + elec heat - Energy Star Compliant

AIO™ VERTICAL STACK - 115V - 900W ELECTRIC HEAT -
R32 WITH ERV - SUBMITTAL (AVE09R3H1)

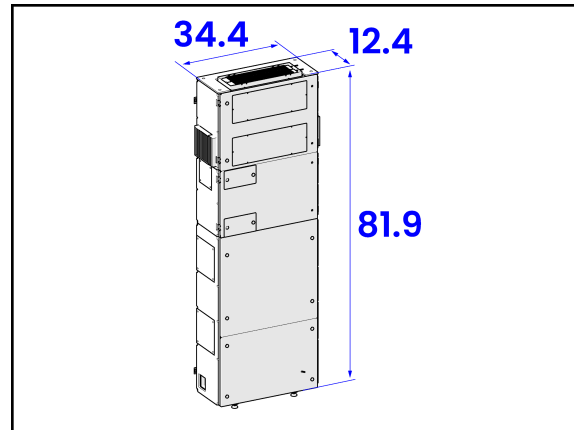
Job	Reference	Construction
Location	Approval	Quote Number
Engineer	Date	Drawing Number
Submitted To	Submitted By	P.O. Number

General Features

- BLDC inverter compressor
- ECM fans
- R32 Refrigerant
- Field configured 900W electric heat supplement
- Auto restart
- Intelligent defrost
- No outdoor unit
- Condensate disbursement systems
- Onboard touch controller
- Integrated ERV
- Washable filter
- Compact, slim design
- 4 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	Min-Max	BTU/H	14,400 - 3,600
	Rated capacity (95°F [35°C])		7,500
	Efficiency	EER2	11.6
Heating	Min-Max	BTU/H	13,800 - 3,900
	Rated capacity (47°F [8.3°C])		8,200
	Rated capacity (5°F [-15°C])		6,400
	Efficiency	COP	3.66
Sound	Indoor: Low-High at 1 m distance	db(A)	40 - 50
	Indoor: Low-High at 3 m distance		32 - 42
	Outdoor sound range		28 - 55
Moisture removal		Pts/h	1.8
		L/hr	0.9
Airflow	Indoor	CFM	226 - 400
		m³/min	384 - 680
	Outdoor	CFM	385 - 638
		m³/min	654 - 1084

Electric Specifications	
Power Supply (V/Ph/Hz)	115V/1Ph/60Hz
Voltage Range	103-127
Running Amps Cooling	15.9
Running Amps Heating	15.9
MCA	34
Maximum Overcurrent Protection (A)	45
Max Power Input (amps) Cooling	22.0
Max Power Input (amps) Heating	30.2

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	EEOSI2
☐	Simple EOS Controller	SEOSI2
☐	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
☐	LCDI is not available over 20A for 115V units		

9.10 230V Heat pump only - Energy Star Compliant

AIO™ VERTICAL STACK - 230V - NO ELECTRIC HEAT WITH ERV - R32 - SUBMITTAL (AVP09R3H2)

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

General Features

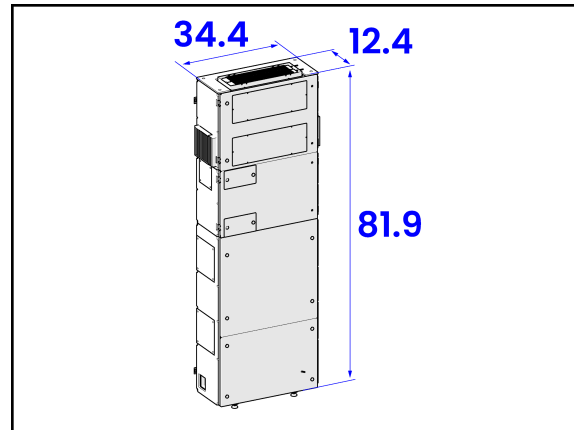
- BLDC inverter compressor
- ECM fans
- R32 Refrigerant
- Auto restart
- Intelligent defrost
- No outdoor unit
- Condensate disbursement systems
- Onboard touch controller
- Integrated ERV
- Washable filter
- Compact, slim design
- 4 selectable fan speeds + Auto
- 10-Year limited warranty (after certification)
- 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	Min-Max	BTU/H	14,400 - 3,600
	Rated capacity (95°F [35°C])		7,500
	Efficiency	EER2	11.6
Heating	Min-Max	BTU/H	13,800 - 3,900
	Rated capacity (47°F [8.3°C])		8,200
	Rated capacity (5°F [-15°C])		6,400
	Efficiency	COP	3.66
Sound	Indoor: Low-High at 1 m distance	db(A)	40 - 50
	Indoor: Low-High at 3 m distance		32 - 42
	Outdoor sound range		28 - 55
Moisture removal		Pts/h	1.8
		L/hr	0.9
Airflow	Indoor	CFM	226 - 400
		m³/hr	384 - 680
	Outdoor	CFM	385 - 638
		m³/hr	654 - 1084

Electric Specifications	
Power Supply (V/Ph/Hz)	230V/1Ph/60Hz
Voltage Range	180 - 253
Running Amps Cooling	7.9
Running Amps Heating	7.9
MCA	12
Maximum Overcurrent Protection (A)	15
Max Power Input (amps) Cooling	10.5
Max Power Input (amps) Heating	10.5

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	EEOSI2
☐	Simple EOS Controller	SEOSI2
☐	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
☐	89 in. (2260.6 mm)	6-15P	L259A

9.11 230V Heat pump + 1,800W elec heat – Energy Star Compliant

AIO™ VERTICAL STACK – 230V – 1,800W ELECTRIC HEAT STRIP WITH ERV – R32 – SUBMITTAL (AVK09R3H2)

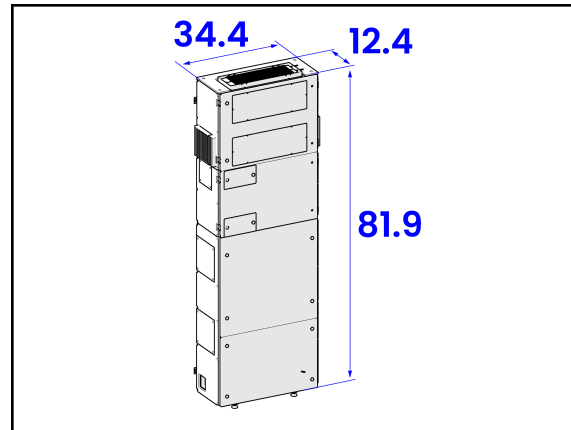
Job	Reference	Construction
Location	Approval	Quote Number
Engineer	Date	Drawing Number
Submitted To	Submitted By	P.O. Number

General Features

- BLDC inverter compressor
- ECM fans
- R32 Refrigerant
- Field configured 900W or 1,800W electric heat supplement
- Auto restart
- Intelligent defrost
- No outdoor unit
- Condensate disbursement systems
- Onboard touch controller
- Integrated ERV
- Washable filter
- Compact, slim design
- 4 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	Min-Max	BTU/H	14,400 – 3,600
	Rated capacity (95°F [35°C])		7,500
	Efficiency	EER2	11.6
Heating	Min-Max	BTU/H	13,800 – 3,900
	Rated capacity (47°F [8.3°C])		8,200
	Rated capacity (5°F [-15°C])		6,400
	Efficiency	COP	3.66
Sound	Indoor: Low-High at 1 m distance	db(A)	40 – 50
	Indoor: Low-High at 3 m distance		32 – 42
	Outdoor sound range		28 – 55
Moisture removal		Pts/h	1.8
		L/hr	0.9
Airflow	Indoor	CFM	226 – 400
		m³/hr	384 – 680
	Outdoor	CFM	385 – 638
		m³/hr	654 – 1084

Electric Specifications	
Power Supply (V/Ph/Hz)	230V/1Ph/60Hz
Voltage Range	180 – 253
Running Amps Cooling	7.9
Running Amps Heating	7.9
MCA	20
Maximum Overcurrent Protection (A)	25
Max Power Input (amps) Cooling	10.5
Max Power Input (amps) Heating	18.3

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
☐	89 in. (2260.6 mm)	6-20P	L229A

9.12 230V Heat pump + 2,700W elec heat – Energy Star Compliant

AIO™ VERTICAL STACK – 230V – 2,700W ELECTRIC HEAT STRIP WITH ERV – R32 – SUBMITTAL (AVL09R3H2)

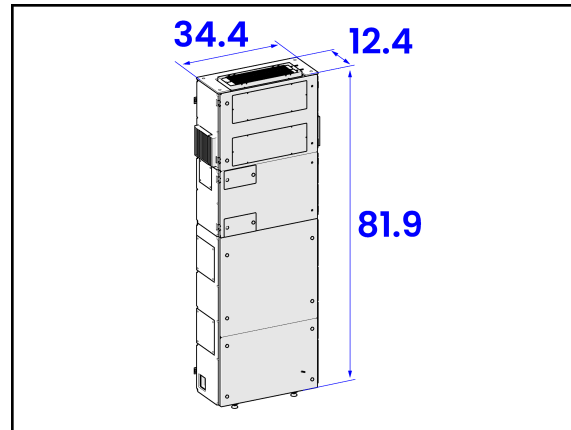
Job	Reference	Construction
Location	Approval	Quote Number
Engineer	Date	Drawing Number
Submitted To	Submitted By	P.O. Number

General Features

- BLDC inverter compressor
- ECM fans
- R32 Refrigerant
- Field configured 2,700W electric heat supplement
- Auto restart
- Intelligent defrost
- No outdoor unit
- Condensate disbursement systems
- Onboard touch controller
- Integrated ERV
- Washable filter
- Compact, slim design
- 4 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	Min-Max	BTU/H	14,400 – 3,600
	Rated capacity (95°F [35°C])		7,500
	Efficiency	EER2	11.6
Heating	Min-Max	BTU/H	13,800 – 3,900
	Rated capacity (47°F [8.3°C])		8,200
	Rated capacity (5°F [-15°C])		6,400
	Efficiency	COP	3.66
Sound	Indoor: Low-High at 1 m distance	db(A)	40 – 50
	Indoor: Low-High at 3 m distance		32 – 42
	Outdoor sound range		28 – 55
Moisture removal		Pts/h	1.8
		L/hr	0.9
Airflow	Indoor	CFM	226 – 400
		m³/hr	384 – 680
	Outdoor	CFM	385 – 638
		m³/hr	654 – 1084

Electric Specifications	
Power Supply (V/Ph/Hz)	230V/1Ph/60Hz
Voltage Range	180 – 253
Running Amps Cooling	7.9
Running Amps Heating	7.9
MCA	24
Maximum Overcurrent Protection (A)	25
Max Power Input (amps) Cooling	10.5
Max Power Input (amps) Heating	22.2

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
☐	LCDI is not available over 20A for 230V units.		

9.13 230V Heat pump + 1,000W pre-heat + 1,800W post-heat - Energy Star Compliant

AIO™ VERTICAL STACK - 230V - 1,800W ELECTRIC HEAT STRIP WITH ERV - 1,000W PREHEAT - R32 - SUBMITTAL (AVU09R3H2)

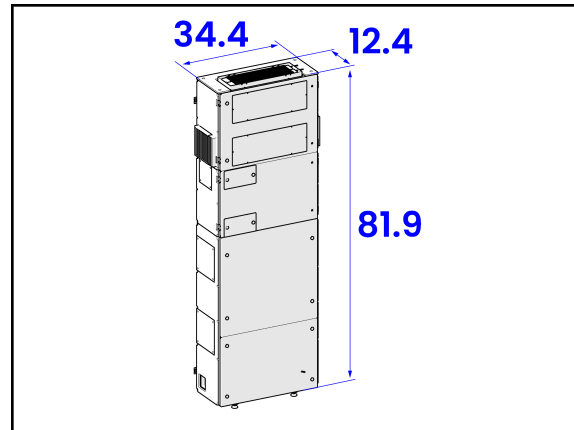
Job	Reference	Construction
Location	Approval	Quote Number
Engineer	Date	Drawing Number
Submitted To	Submitted By	P.O. Number

General Features

- BLDC inverter compressor
- ECM fans
- R32 Refrigerant
- Field configured 1,800W electric heat supplement
- Field configured 1kW preheat supplement
- Auto restart
- Intelligent defrost
- No outdoor unit
- Condensate disbursement systems
- Onboard touch controller
- Integrated ERV
- Washable filter
- Compact, slim design
- 4 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	Min-Max	BTU/h	14,400 - 3,600
	Rated capacity (95°F [35°C])		7,500
	Efficiency	EER2	11.6
Heating	Min-Max	BTU/h	13,800 - 3,900
	Rated capacity (47°F [8.3°C])		8,200
	Rated capacity (5°F [-15°C])		6,400
	Efficiency	COP	3.66
Sound	Indoor: Low-High at 1 m distance	db(A)	40 - 50
	Indoor: Low-High at 3 m distance		32 - 42
	Outdoor sound range		28 - 55
Moisture removal		Pts/h	1.8
		L/hr	0.9
Airflow	Indoor	CFM	226 - 400
		m³/hr	384 - 680
	Outdoor	CFM	385 - 638
		m³/hr	654 - 1084

Electric Specifications	
Power Supply (V/Ph/Hz)	230V/1Ph/60Hz
Voltage Range	180 - 253
Running Amps Cooling	7.9
Running Amps Heating	7.9
MCA	25
Maximum Overcurrent Protection (A)	25
Max Power Input (amps) Cooling	10.5
Max Power Input (amps) Heating	22.7

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
☐	LCDI is not available over 20A for 230V units.		

9.14 230V Heat pump + 1,000W pre-heat + 2,700W post-heat – Energy Star Compliant

AIO™ VERTICAL STACK – 230V – 2,700W ELECTRIC HEAT STRIP WITH ERV – 1,000W PREHEAT – R32 – SUBMITTAL (AVV09R3H2)

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

General Features

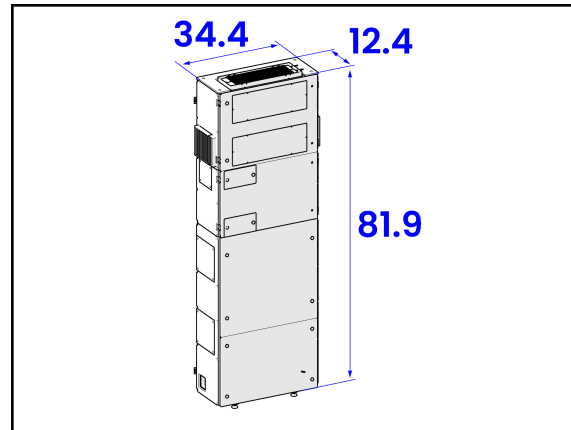
- BLDC inverter compressor
- ECM fans
- R32 Refrigerant
- Field configured 2,700W electric heat supplement
- Field configured 1kW preheat supplement
- Auto restart
- Intelligent defrost
- No outdoor unit
- Condensate disbursement systems
- Onboard touch controller
- Integrated ERV
- Washable filter
- Compact, slim design
- 4 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	Min-Max	BTU/h	14,400 – 3,600
	Rated capacity (95°F [35°C])		7,500
	Efficiency	EER2	11.6
Heating	Min-Max	BTU/h	13,800 – 3,900
	Rated capacity (47°F [8.3°C])		8,200
	Rated capacity (5°F [-15°C])		6,400
	Efficiency	COP	3.66
Sound	Indoor: Low-High at 1 m distance	db(A)	40 – 50
	Indoor: Low-High at 3 m distance		32 – 42
	Outdoor sound range		28 – 55
Moisture removal		Pts/h	1.8
		L/hr	0.9
Airflow	Indoor	CFM	226 – 400
		m³/hr	384 – 680
	Outdoor	CFM	385 – 638
		m³/hr	654 – 1084

Electric Specifications	
Power Supply (V/Ph/Hz)	230V/1Ph/60Hz
Voltage Range	180 – 253
Running Amps Cooling	7.9
Running Amps Heating	7.9
MCA	29
Maximum Overcurrent Protection (A)	30
Max Power Input (amps) Cooling	10.5
Max Power Input (amps) Heating	26.6

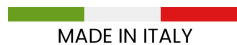
Included	Wall Controllers + Gateways	
☐	Wireless Remote	WRCH20
☐	Basic Touch Controller	LTCH20
☐	Recessed Touch Controller	RTCH20
☐	Advanced TFT Controller with 7-Day program	TFTH20
☐	Wireless (AA Battery) Infrared Controller with 7-Day program	WIPT20
☐	Third Party Gateway	TPG015
☐	WiFi App	WIFI30
☐	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
☐	LCDI is not available over 20A for 230V units.		



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



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Revised August 12, 2026

AIO™ Vertical Stack with ERV (Gen 3)

Product Data Sheet