

# AIO™ Vertical Stack XL (with ERV)

## Product Data Sheet

**Note:** The image shows the unit with a left-side vent. The unit also comes with right-side and back vent options.



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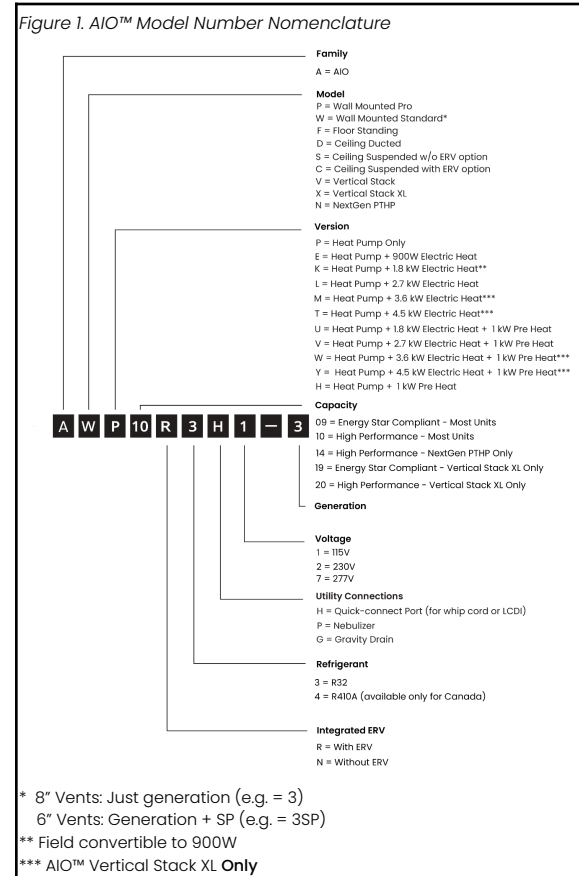
## CERTIFICATIONS & LISTINGS

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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.



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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 XL without an ERV 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 XL WITH ERV OVERVIEW

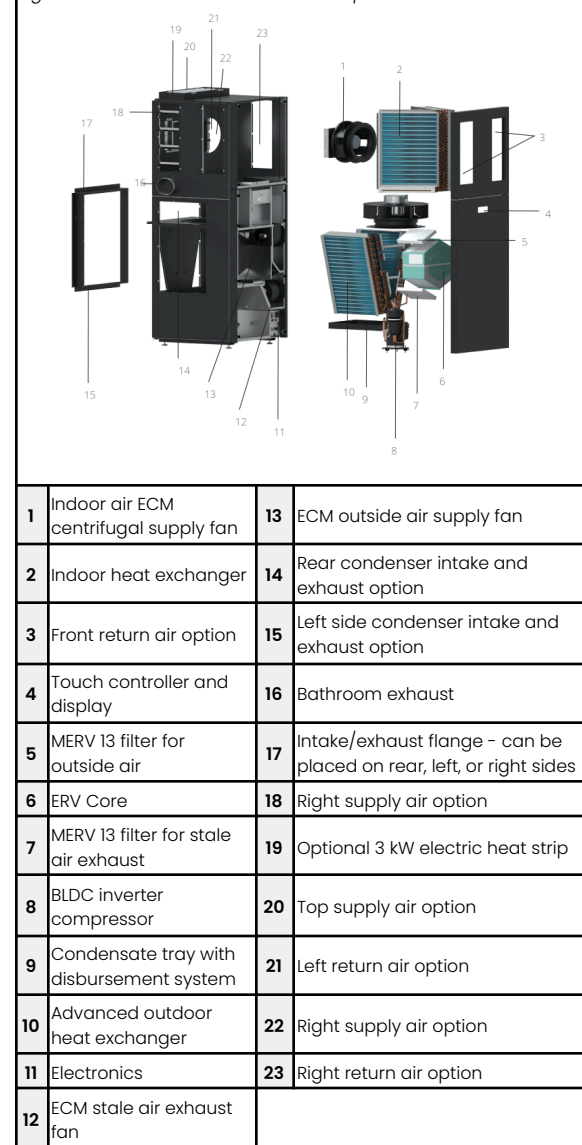
AIO™ Vertical Stack XL is the ideal multi-room solution when a ceiling-mounted unit is not desired or feasible. The compact 23.8-inch (605mm) by 27.4-inch (695 mm) footprint uses minimal floor space. This unit is perfect anywhere direct venting or ducting is required, with up to 0.6" (15.2 mm) external static pressure. You can use any grille and louver combination for maximum design flexibility.

### ⚠ WARNING

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

## 2.1 Components and structure

Figure 2. Vertical Stack XL with ERV components and structure



|    |                                          |    |                                                                     |
|----|------------------------------------------|----|---------------------------------------------------------------------|
| 1  | Indoor air ECM centrifugal supply fan    | 13 | ECM outside air supply fan                                          |
| 2  | Indoor heat exchanger                    | 14 | Rear condenser intake and exhaust option                            |
| 3  | Front return air option                  | 15 | Left side condenser intake and exhaust option                       |
| 4  | Touch controller and display             | 16 | Bathroom exhaust                                                    |
| 5  | MERV 13 filter for outside air           | 17 | Intake/exhaust flange – can be placed on rear, left, or right sides |
| 6  | ERV Core                                 | 18 | Right supply air option                                             |
| 7  | MERV 13 filter for stale air exhaust     | 19 | Optional 3 kW electric heat strip                                   |
| 8  | BLDC inverter compressor                 | 20 | Top supply air option                                               |
| 9  | Condensate tray with disbursement system | 21 | Left return air option                                              |
| 10 | Advanced outdoor heat exchanger          | 22 | Right supply air option                                             |
| 11 | Electronics                              | 23 | Right return air option                                             |
| 12 | ECM stale air exhaust fan                |    |                                                                     |

## 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 XL unit is ideal for any room or area that requires between 4,500 and 24,000 Btu/h of cooling capacity, or between 5,000 and 24,000 Btu/h of heating capacity.

### 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, AIO™ utilizes the heat or cold air remaining after passing through the recovery core to lower or raise the temperature of the condenser, providing 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. 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 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, with continued operation to -10°F (-23°C) and below.

### 3,600-watt electric heat

The electric heat works in conjunction with the heat pump when the heat pump lacks sufficient power.

### Intelligent defrosting

AIO™'s intelligent defrosting system means more time heating and less time on the reverse cycle defrost.

### Quiet

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

### 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 4" (102 mm) clearance on all sides.

### Leak protection

If a drain becomes clogged, the system shuts down, and an alarm is activated. This prevents water damage.

### Easy to service

The AIO™ unit can be easily maintained and repaired from the front without having to remove the unit.

### 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, using the optional third-party kit. An optional BACnet and Modbus module enables interfacing with building management systems.

## 3. AIRFLOW

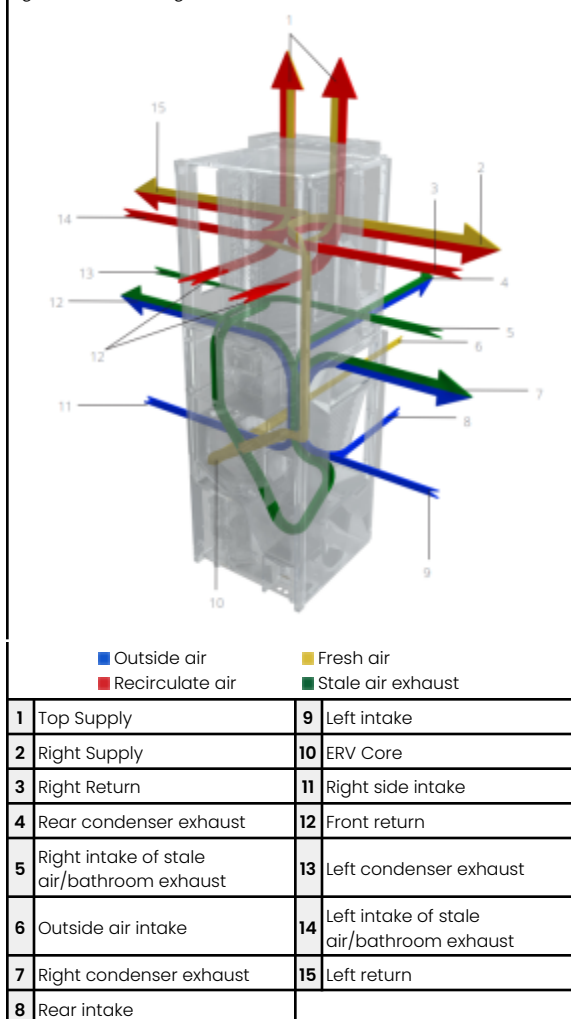
### 3.1 Airflow Operation

AIO™ Vertical Stack XL's powerful backward centrifugal ECM fan facilitates efficient condenser air movement through ductwork, enabling flexible placement within a room or apartment. Unlike traditional VTACs, it does not require an outside wall. The design allows air supply from the top or both sides, with flexible condenser intake options (left, right, or rear). Flexible ducting choices with 0.7" WC (174.4 Pa) make the AIO™ Vertical Stack XL versatile for installation without restrictions in any residence.

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.

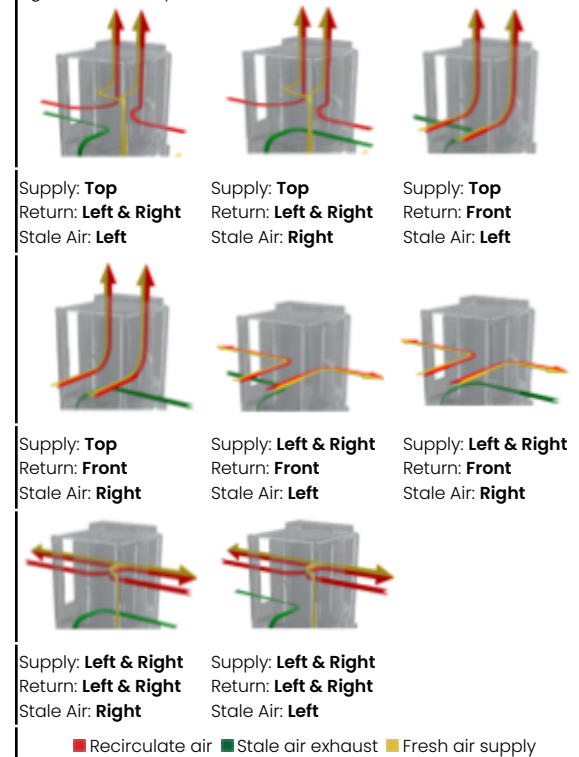
### 3.2 Airflow Diagram

Figure 3. Airflow diagram

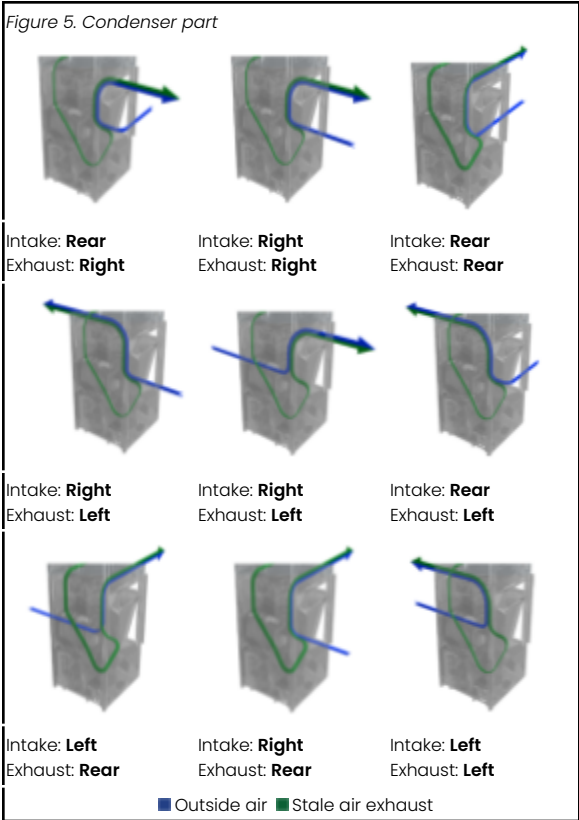


### 3.3 Fan Coil Part

Figure 4. Fan coil part

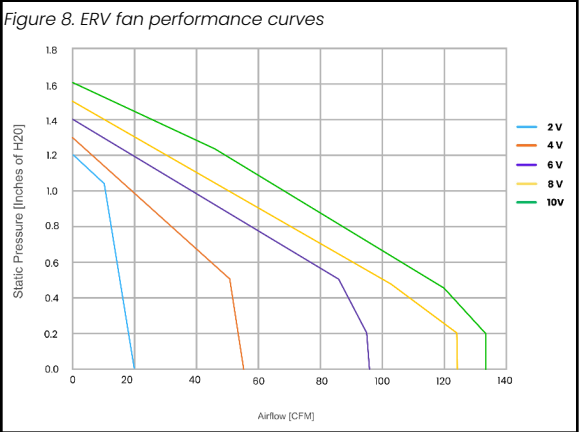
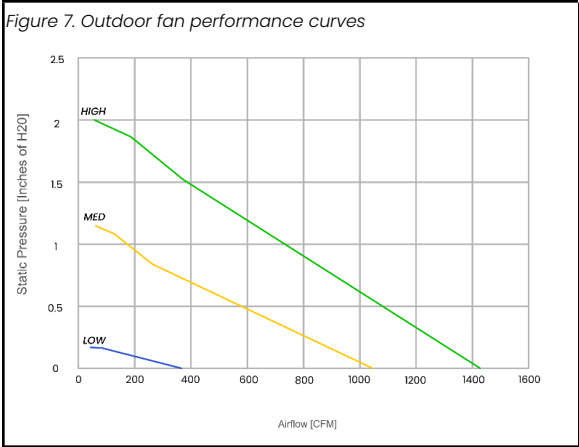
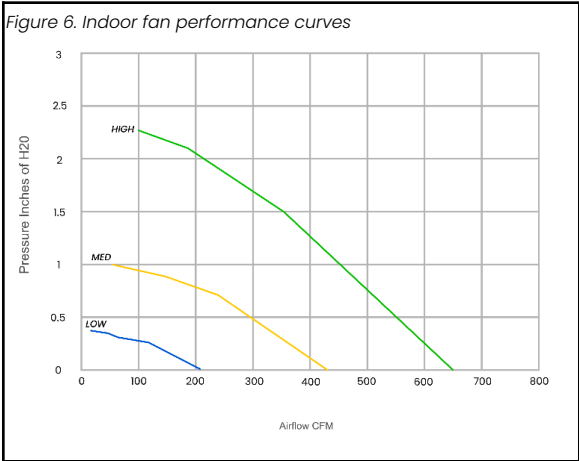


3.4 Condenser Part



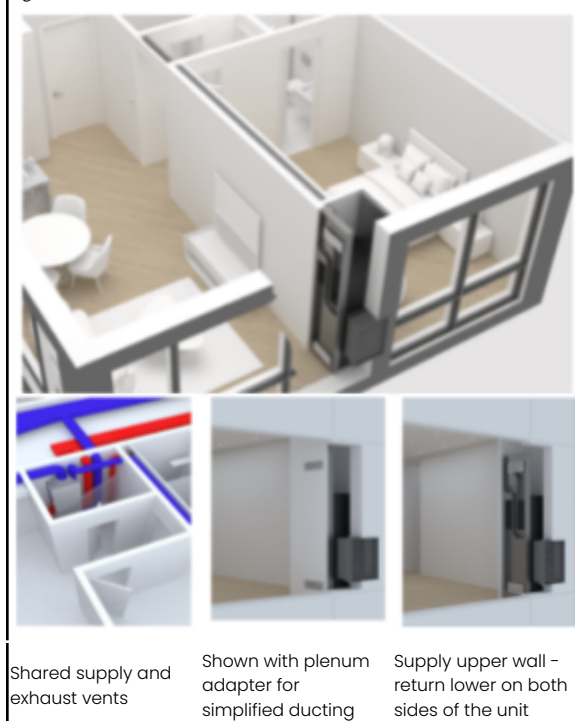
3.5 Fan curves

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



## 4. INSTALLATION REQUIREMENTS

Figure 9. Installation



### 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 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.

### 4.3 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).

### 4.4 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 with a minimum of 2% slope, when an internal drain is



used. An internal drain is highly recommended. If using an externally run condensate line, note the following:

- The line must be properly insulated
- A minimum of 30% slope.
- If on a low floor, ensure that the end of the drain is above the maximum height of snow buildup.
- Interior clearances are only required to prevent vibrations. Leave at least 4" (102 mm) of clearance from any surface in addition to any clearance required for servicing the unit. 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.
- Correctly sized ductwork must be installed properly and balanced.
- The unit must be perfectly level on the horizontal axis and perfectly plumb on the vertical axis.
- The unit must be tightly attached to the ducts, with zero leakage between the external ducts and the unit.
- The unit must be properly affixed with screws to wall studs or other supporting material.
- Unblocked vents on the exterior with no obstacles within 40" (1016 mm) of the air intake and discharge.
- An access panel with adequate clearance to be able to access the entire front of the unit for service
- 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 are intended to 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.

cause the unit to overheat and fail. This will void the warranty.

## 4.5 Louver Specifications

AIO™ Vertical Stack XL units can be vented using many 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™ Vertical Stack XL units.

- **Free area:** The area on a louver/grille that is open for the air to flow through. The louver, perforated panel, or other solution requires the 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 0.68 square feet (0.06 square meters) for the intake vent and 0.68 square feet (0.06 square meters) for the exhaust vent.**

- **Pressure drop:** Pressure drop is the resistance the louver/grille creates against the airflow. This resistance can cause heat to 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

## 5. TECHNICAL SPECIFICATIONS

### 5.1 High Performance

#### 5.1.1 Cooling

Table 1. High performance - Cooling

| Heat Pump Only   |              |        | 95°F<br>(35°C)<br>(1) | 105°F<br>(40.6°C)<br>(2) | 115°F<br>(46.1°C)<br>(3) |
|------------------|--------------|--------|-----------------------|--------------------------|--------------------------|
| Capacity         | Maximum      | BTU/hr | 24,000                | 22,000                   | 20,000                   |
|                  | Recommended* |        | 22,000                | 20,500                   | 18,500                   |
|                  | Rated        |        | 20,300                | 18,300                   | 17,500                   |
|                  | Minimum      |        | 4,500                 | 4,500                    | 4,500                    |
| Input Power      | Maximum      | W      | 2,346                 | 2,450                    | 2,520                    |
|                  | Recommended* |        | 2,045                 | 2,250                    | 2,310                    |
|                  | Rated        |        | 1,743                 | 1,956                    | 2,147                    |
|                  | Minimum      |        | 341                   | 356                      | 358                      |
| Efficiency       | Maximum      | EER    | 10.23                 | 8.98                     | 7.94                     |
|                  | Recommended* |        | 10.76                 | 9.11                     | 8.01                     |
|                  | Rated        |        | 11.65                 | 9.36                     | 8.15                     |
|                  | Seasonal     |        | SEER2 13.91           | -                        | -                        |
| Moisture Removal |              | Pts/h  | 1.9                   | 2.1                      | 2.3                      |
|                  |              | L/hr   | 0.9                   | 1.0                      | 1.1                      |

#### Notes

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

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

#### 5.1.2 Heating

Table 2. High performance - Heating

| Heat Pump only |              |        | 47°F<br>(8.3°C)<br>(1) | 17°F<br>(-8.3°C)<br>(2) | 5°F<br>(-15°C)<br>(3) | 0°F<br>(-17.8°C)<br>(4) | -5°F<br>(-20.6°C)<br>(5) |
|----------------|--------------|--------|------------------------|-------------------------|-----------------------|-------------------------|--------------------------|
| Capacity       | Maximum      | BTU/hr | 24,000                 | 17,500                  | 12,500                | 9,500                   | 8,200                    |
|                | Recommended* |        | 20,000                 | 11,600                  | 9,300                 | 8,300                   | 7,600                    |
|                | Rated        |        | 17,300                 | 10,400                  | 8,300                 | 7,400                   | 6,800                    |
|                | Minimum      |        | 5,000                  | 4,150                   | 3,850                 | 3,850                   | 3,850                    |
| Input Power    | Maximum      | W      | 2,340                  | 2,280                   | 2,210                 | 2,375                   | 2,380                    |
|                | Recommended* |        | 1,800                  | 1,480                   | 1,390                 | 1,400                   | 1,228                    |
|                | Rated        |        | 1,424                  | 1,286                   | 1,210                 | 1,215                   | 1,060                    |
|                | Minimum      |        | 320                    | 345                     | 344                   | 368                     | 400                      |
| Efficiency     | Maximum      | COP    | 3.01                   | 2.25                    | 1.66                  | 1.17                    | 1.01                     |
|                | Recommended* |        | 3.26                   | 2.30                    | 1.96                  | 1.74                    | 1.81                     |
|                | Rated        |        | 3.56                   | 2.37                    | 2.01                  | 1.79                    | 1.88                     |
|                | Minimum      | HSPF2  | 4.58                   | 3.53                    | 3.28                  | 3.07                    | 2.82                     |
|                | Seasonal     |        | 9.12                   | -                       | -                     | -                       | -                        |
|                |              |        |                        |                         |                       |                         |                          |

#### Notes

- (1) ID: 70°F(21.1°C), W.B. 60°F(15.6°C) | OD: 47°F(8.3°C), W.B. 43°F(6.1°C)  
 (2) ID: 70°F(21.1°C), W.B. 60°F(15.6°C) | OD: 17°F(-8.3°C), W.B. 13°F(-10.6°C)  
 (3) ID: 70°F(21.1°C), W.B. 60°F(15.6°C) | OD: 5°F(-15°C), W.B. 3°F(-16.1°C)  
 (4) ID: 70°F(21.1°C), W.B. 60°F(15.6°C) | OD: 0°F(-17.8°C)  
 (5) ID: 70°F(21.1°C), W.B. 60°F(15.6°C) | OD: -5°F(-20.6°C)

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



Optional heat strips are available for an additional 12,200 BTU/hr of heating capacity.

### 5.2 Energy Star Compliant

#### 5.2.1 Cooling

Table 3. Energy star compliant - Cooling

| Heat Pump only   |              |        | 95°F<br>(35°C)<br>(1) | 105°F<br>(40.6°C)<br>(2) | 115°F<br>(46.1°C)<br>(3) |
|------------------|--------------|--------|-----------------------|--------------------------|--------------------------|
| Capacity         | Maximum      | BTU/hr | 24,000                | 22,000                   | 20,000                   |
|                  | Recommended* |        | 22,000                | 20,500                   | 18,500                   |
|                  | Rated        |        | 11,600                | 18,300                   | 17,500                   |
|                  | Minimum      |        | 4,500                 | 4,500                    | 4,500                    |
| Input Power      | Maximum      | W      | 2,346                 | 2,450                    | 2,520                    |
|                  | Recommended* |        | 1,669                 | 2,250                    | 2,310                    |
|                  | Rated        |        | 991                   | 1,956                    | 2,147                    |
|                  | Minimum      |        | 341                   | 356                      | 358                      |
| Efficiency       | Maximum      | EER    | 10.23                 | 8.98                     | 7.94                     |
|                  | Recommended* |        | 13.18                 | 9.11                     | 8.01                     |
|                  | Rated        |        | EER2 11.70            | 9.36                     | 8.15                     |
|                  | Seasonal     |        | SEER2 15.40           | -                        | -                        |
| Moisture Removal |              | Pts/h  | 1.9                   | 2.1                      | 2.3                      |
|                  |              | L/hr   | 0.9                   | 1.0                      | 1.1                      |

#### Notes

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

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

## 5.2.2 Heating – Heat Pump Only

Table 4. Energy star compliant – Heating – Heat Pump Only

| Heat Pump      |                   |            | 47°F<br>(8.3<br>°C)<br>(1) | 17°F<br>(-8.3<br>°C)<br>(2) | 5°F<br>(-15°C)<br>(3) | 0°F<br>(-17.8<br>°C)<br>(4) | -5°F<br>(-20.6<br>°C)<br>(5) |
|----------------|-------------------|------------|----------------------------|-----------------------------|-----------------------|-----------------------------|------------------------------|
| Capacity       | Maximum           | BTU/<br>hr | 24,000                     | 17,500                      | 12,500                | 9,500                       | 8,200                        |
|                | Recomm-<br>ended* |            | 20,000                     | 11,400                      | 9,200                 | 8,300                       | 7,600                        |
|                | Rated             |            | 14,200                     | 10,200                      | 8,200                 | 7,400                       | 6,800                        |
|                | Minimum           |            | 5,000                      | 4,150                       | 3,850                 | 3,850                       | 3,850                        |
| Input<br>Power | Maximum           | W          | 2,340                      | 2,280                       | 2,210                 | 2,375                       | 2,380                        |
|                | Recomm-<br>ended* |            | 1,800                      | 1,450                       | 1,200                 | 1,400                       | 1,228                        |
|                | Rated             |            | 1,158                      | 1,261                       | 1,045                 | 1,215                       | 1,060                        |
|                | Minimum           |            | 320                        | 345                         | 344                   | 368                         | 400                          |
| Efficiency     | Maximum           | COP        | 3.01                       | 2.25                        | 1.66                  | 1.20                        | 1.01                         |
|                | Recomm-<br>ended* |            | 3.26                       | 2.30                        | 2.25                  | 1.74                        | 1.81                         |
|                | Rated             |            | 3.59                       | 2.37                        | 2.30                  | 1.79                        | 1.88                         |
|                | Minimum           |            | 4.58                       | 3.53                        | 3.28                  | 3.07                        | 2.82                         |
|                | Seasonal          | HSPF<br>2  | 9.20                       | -                           | -                     | -                           | -                            |

### Notes

- (1) ID: 70°F(21.1°C), W.B. 60°F(15.6°C) | OD: 47°F(8.3°C), W.B. 43°F(6.1°C)  
 (2) ID: 70°F(21.1°C), W.B. 60°F(15.6°C) | OD: 17°F(-8.3°C), W.B. 13°F(-10.6°C)  
 (3) ID: 70°F(21.1°C), W.B. 60°F(15.6°C) | OD: 5°F(-15°C), W.B. 3°F(-16.1°C)  
 (4) ID: 70°F(21.1°C), W.B. 60°F(15.6°C) | OD: 0°F(-17.8°C)  
 (5) ID: 70°F(21.1°C), W.B. 60°F(15.6°C) | OD: -5°F(-20.6°C)

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



Optional heat strips are available for an additional 12,200 BTU/hr of 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            |

Table 6. ERV

|                                 |                | 40 CFM<br>(68 m³/hr)             | 60 CFM<br>(102 m³/hr)            | 80 CFM<br>(136 m³/hr)            |
|---------------------------------|----------------|----------------------------------|----------------------------------|----------------------------------|
| Efficiency of<br>core in winter | Sensible       | 81.45%                           | 77.7%                            | 74%                              |
|                                 | Latent         | 81.39%                           | 54.2%                            | 50.4%                            |
| Efficiency of<br>core in summer | Sensible       | 80.64%                           | 76.61%                           | 72.6%                            |
|                                 | Latent         | 80.96%                           | 53.4%                            | 49.32%                           |
| Filter                          | Indoor<br>air  | MERV 3 / optional MERV 13        |                                  |                                  |
|                                 | Outside<br>air | MERV 13                          | MERV 13                          | MERV 13                          |
| Leakage                         | Internal       | 2.6% at 0.40"<br>WC (99.6<br>Pa) | 2.4% at 0.40"<br>WC (99.6<br>Pa) | 2.2% at 0.40"<br>WC (99.6 Pa)    |
|                                 | External       | 2.8% at 1.0"<br>WC (249.1<br>Pa) | 2.7% at 1.0"<br>WC (249.1<br>Pa) | 2.5% at 1.0"<br>WC (249.1<br>Pa) |

## 5.4 Airflow

### 5.4.1 Indoor

Table 7. Airflow – Indoor

| Air volume |                                 |                             |
|------------|---------------------------------|-----------------------------|
| Indoor     | Type                            | ECM centrifugal             |
|            | CFM Range                       | 247 – 740                   |
|            | m³/hr Range                     | 420– 1257                   |
|            | Nominal CFM                     |                             |
|            | Available ESP at<br>Nominal CFM | -                           |
|            | Supply connection               | Integrated top or side      |
|            | Return connection               | Integrated top or side      |
|            | Speeds                          | Low, med, high, boost, auto |
|            | Filter                          | MERV 3 – Optional MERV 13   |

## 5.4.2 Outdoor

Table 8. Airflow – Outdoor

| Air volume |                                  |                               |
|------------|----------------------------------|-------------------------------|
| Outdoor    | Type                             | ECM centrifugal               |
|            | CFM Range                        | 382 – 1110                    |
|            | m³/hr Range                      | 649– 1886                     |
|            | Nominal CFM                      |                               |
|            | Available ESP at<br>Nominal CFM  | 0.7" WC (174.4 Pa)            |
|            | Intake and Exhaust<br>Connection | 18" x 36" (457 x 914 mm) vent |
|            | Speeds                           | Low, med, high, auto          |

## 5.5 Sound

Table 9. Sound

| Sound           |          |                  |                               |
|-----------------|----------|------------------|-------------------------------|
| Measure<br>ment | Distance | Fan Speed        | Sound Level<br>(dB(A))/Rating |
| Indoor          | 1 m      | Level 1 – Low    | 44                            |
|                 |          | Level 2 – Medium | 52                            |
|                 |          | Level 3 – High   | 54                            |
|                 | 3 m      | Level 1 – Low    | 36                            |
|                 |          | Level 2 – Medium | 43                            |
|                 |          | Level 3 – High   | 46                            |
| Outdoor         | -        | Range            | 28 – 55                       |
| STC             | -        | -                | 27                            |
| OITC            |          |                  | 19                            |

## 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 | 23.8 W x 76.3 H x 27.4 D          |
|               |          | mm | 605 W x 1937 H x 695 D            |
| Weight        | Net      | lb | 332                               |
|               |          | kg | 150.6                             |
|               | Gross    | lb | 349                               |
|               |          | kg | 158.3                             |
| Cabinet       | Finish   |    | Black covered with dark gray EPDM |
|               | Material |    | Steel                             |

## 5.6.5 General

Table 14. General - Compressor

| Compressor  |                           |           |
|-------------|---------------------------|-----------|
| Type        | BLDC twin rotary inverter |           |
| Refrigerant | Type                      | R32       |
|             | Quantity                  | 45.85 oz. |
|             |                           | 1.3 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.

## 5.7 Electrical

### 5.7.1 General

Table 16. Electrical - General

| General                                                    |  | High Performance            | Energy Star |      |
|------------------------------------------------------------|--|-----------------------------|-------------|------|
| Volt range                                                 |  | 180-253                     |             |      |
| Hz/phase                                                   |  | 60 Hz / single phase        |             |      |
| Power input connection                                     |  | LCDI power cord or hardwire |             |      |
| Power factor                                               |  | 0.96                        |             |      |
| Input power (standby)                                      |  | W                           | 10.8        |      |
| Input power (off mode)                                     |  |                             | 1.7         |      |
| Cooling (nominal)                                          |  | A                           | 7.6         | 4.3  |
| Cooling (max)                                              |  |                             | 11.2        |      |
| Heat Pump Only                                             |  |                             |             |      |
| Heating - heat pump only (nom.)                            |  | A                           | 8.6         | 7.4  |
| Heating-heat pump only (max)                               |  |                             | 11.2        |      |
| Heat Pump + 3.6 kW Elec Heat                               |  |                             |             |      |
| Heating-heat pump+3,600 W Elec Heat (nom.)                 |  | A                           | 24.2        | 23.1 |
| Heating-heat pump+3,600 W Elec Heat (max)                  |  |                             | 27.0        |      |
| Heat Pump + 4.5 kW Elec Heat                               |  |                             |             |      |
| Heating-heat pump+4,500 W Elec Heat (nom.)                 |  | A                           | 28.2        | 27.0 |
| Heating-heat pump+4,500 W Elec Heat (max)                  |  |                             | 31.0        |      |
| Heat Pump + 4.5 kW Elec Heat + 1 kW Pre Heat               |  |                             |             |      |
| Heating-heat pump+4,500 W Elec Heat +1,000 Pre Heat (nom.) |  | A                           | 32.5        | 31.3 |
| Heating-heat pump+4,500 W                                  |  |                             | 35.0        |      |

|                                  |  |
|----------------------------------|--|
| Elec Heat + 1,000 Pre Heat (max) |  |
|----------------------------------|--|

Table 17. Electrical - Circuit breakers

| Circuit breakers                               |      |   |    |
|------------------------------------------------|------|---|----|
| Heat Pump Only                                 | MCA  | A | 14 |
|                                                | MOCP |   | 20 |
| Heat Pump + 3600 W Elec Heat                   | MCA  | A | 29 |
|                                                | MOCP |   | 35 |
| Heat Pump + 4500 W Elec Heat                   | MCA  | A | 33 |
|                                                | MOCP |   | 39 |
| Heat Pump + 4500 W Elec Heat + 1000 W Pre Heat | MCA  | A | 37 |
|                                                | MOCP |   | 43 |

### 5.7.2 Motors

Table 18. Electrical - Motors

| Motors                          |             |    |      |
|---------------------------------|-------------|----|------|
| Compressor                      | RLA         | A  | 6    |
|                                 | LRA         |    | 6    |
| Indoor ECM fan motor            | Watts (max) | W  | 425  |
|                                 | FLA         | A  | 2    |
|                                 | Power       | HP | 1/6  |
| Fresh air intake ECM fan motor  | Watts (max) | W  | 70   |
|                                 | FLA         | A  | 0.5  |
|                                 | Power       | HP | 1/10 |
| Stale air exhaust ECM fan motor | Watts (max) | W  | 70   |
|                                 | FLA         | A  | 0.5  |
|                                 | Power       | HP | 1/10 |
| Outdoor ECM fan motor           | Watts (max) | W  | 405  |
|                                 | FLA         | A  | 1.9  |
|                                 | Power       | HP | 1/8  |

5.7.3 LCDI power cords

Table 19. Electrical - LCDI Power cords

| LCDI Power Cord       |           |       |
|-----------------------|-----------|-------|
| Heat Pump Only        | Amps      | 15    |
|                       | Plug      | 6-15P |
| Heat Pump + Elec Heat | Amps      | 30    |
|                       | Plug Type | 6-30P |

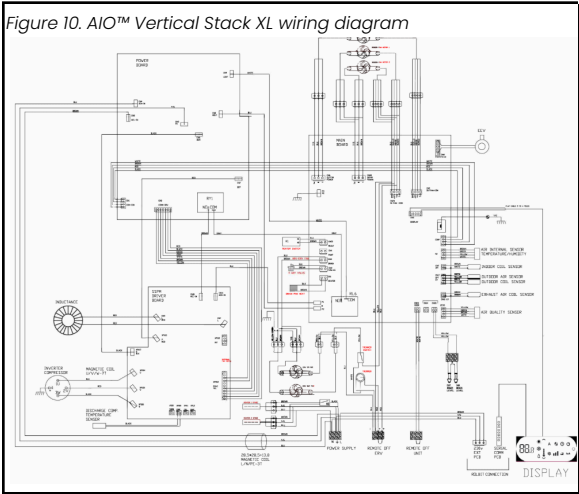


For units requiring a breaker size above 20 A, a quick-connect whip cord is available as an accessory (60" (1524 mm) length).

6. WIRING DIAGRAM

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

[PDF AIO Vertical Stack XL with ERV Wiring Diagram \(V ...](#)



7. DIMENSIONS

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

[PDF AIO Vertical Stack XL Dimensions \(V 5.0\).pdf](#)

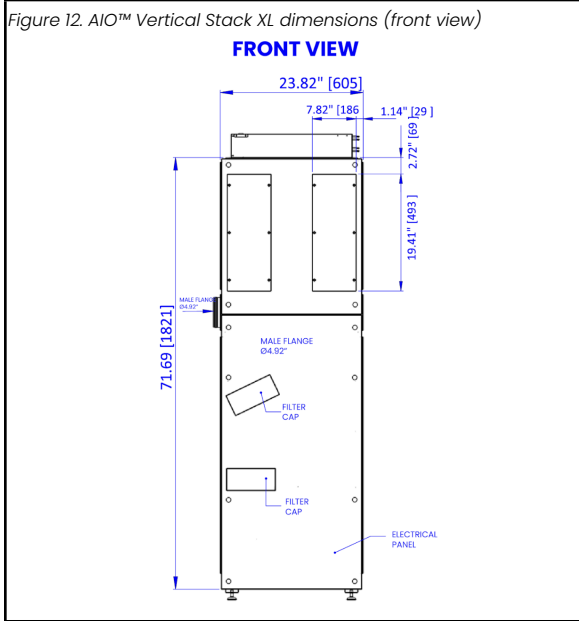
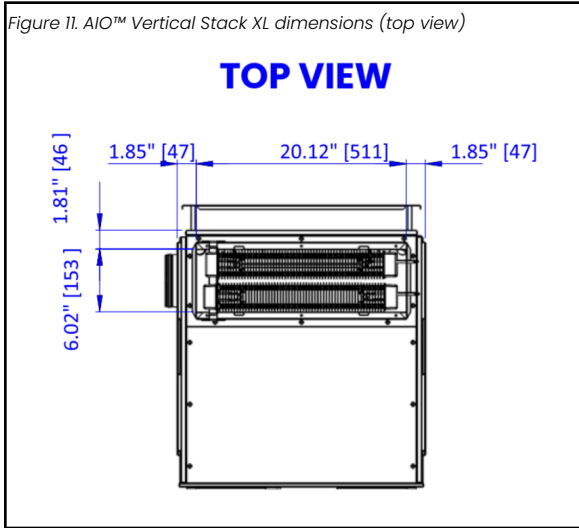


Figure 13. AIO™ Vertical Stack XL dimensions (right view)

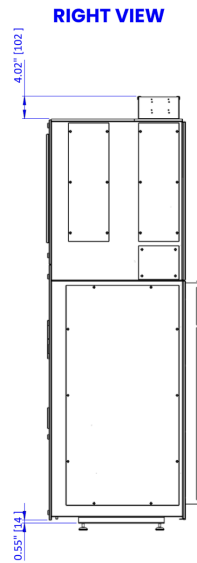


Figure 14. AIO™ Vertical Stack XL dimensions (rear view)

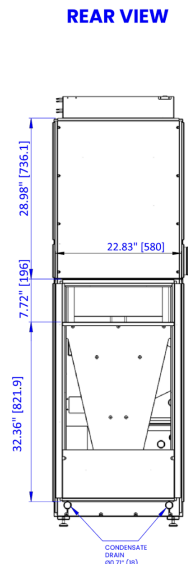


Figure 15. AIO™ Vertical Stack XL dimensions (left view)

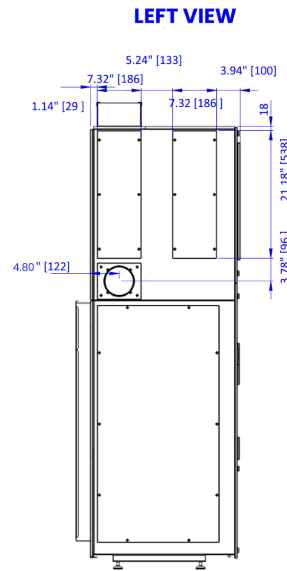
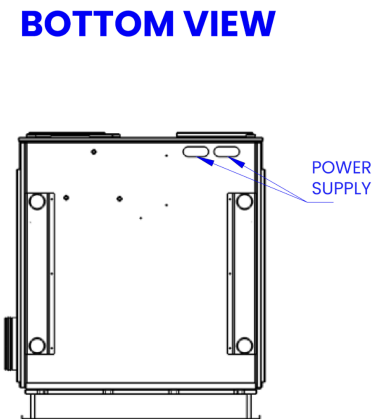


Figure 16. AIO™ Vertical Stack XL dimensions (bottom view)



## 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](mailto: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 230V Heat Pump Only - High Performance

AIO™ VERTICAL STACK XL + ERV - High Performance -  
230V - NO ELECTRIC HEAT - R32 - SUBMITTAL  
(AXP20R3H2)

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

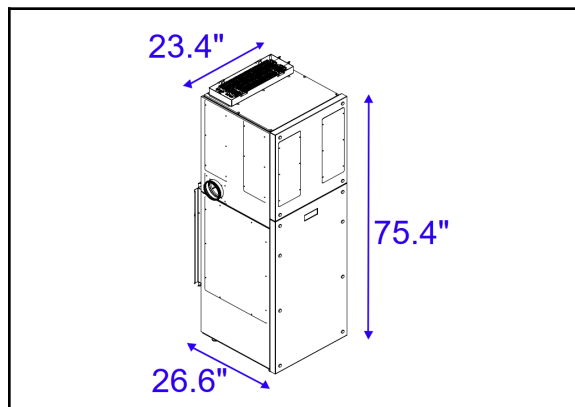
#### General Features

- 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
- 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 | 4,500 - 24,000 |
|                            | Rated capacity (95°F [35°C])     |       | 20,300         |
|                            | Efficiency                       | EER2  | 11.65          |
| Heating                    | Min-Max                          | BTU/H | 5,000 - 24,000 |
|                            | Rated capacity (47°F [8.3°C])    |       | 17,300         |
|                            | Rated capacity (5°F [-15°C])     |       | 8,300          |
|                            | Efficiency                       | COP   | 3.56           |
| Sound                      | Indoor: Low-High at 1 m distance | db(A) | 44 - 54        |
|                            | Indoor: Low-High at 3 m distance |       | 36 - 46        |
|                            | Outdoor sound range              |       | 28 - 55        |
| Moisture removal           |                                  | Pts/h | 1.9            |
|                            |                                  | L/hr  | 0.9            |
| Airflow                    | Indoor                           | CFM   | 247 - 740      |
|                            |                                  | m³/hr | 420 - 1257     |
|                            | Outdoor                          | CFM   | 382 - 1110     |
|                            |                                  | m³/hr | 649 - 1886     |

| Electric Specifications            |               |
|------------------------------------|---------------|
| Power Supply                       | 230V/1Ph/60Hz |
| Voltage Range                      | 180 - 253     |
| Running Amps Cooling               | 7.6           |
| Running Amps Heating               | 8.6           |
| MCA                                | 14            |
| Maximum Overcurrent Protection (A) | 20            |
| Max Power Input (amps) Cooling     | 11.2          |
| Max Power Input (amps) Heating     | 11.2          |

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

| Included                 | LCDI Power Cords   | Amps | NEMA  | SKU   |
|--------------------------|--------------------|------|-------|-------|
| <input type="checkbox"/> | 89 in. (2260.6 mm) | 15   | 6-15P | L259A |

## 9.2 230V Heat Pump + 3.6 kW Elec Heat - High Performance

AIO™ VERTICAL STACK XL + ERV - High Performance -  
230V - 3,600W ELECTRIC HEAT STRIP - R32 - SUBMITTAL  
(AXM20R3H2)

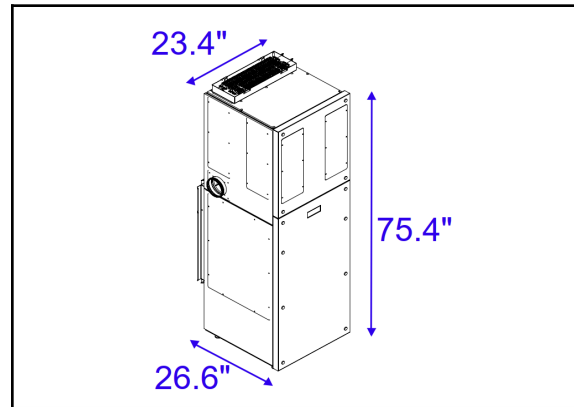
|              |              |                |
|--------------|--------------|----------------|
| Job          | Reference    | Construction   |
| Location     | Approval     | Quote Number   |
| Engineer     | Date         | Drawing Number |
| Submitted To | Submitted By | P.O. Number    |

### General Features

- BLDC inverter compressor
- ECM fans
- Integrated ERV
- R32 Refrigerant
- Electric resistance heat supplements with total output of 3,600W
- 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
- 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 | 4,500 - 24,000 |  |
|                            | Rated capacity (95°F [35°C])     |       | 20,300         |  |
|                            | Efficiency                       | EER2  | 11.65          |  |
| Heating                    | Min-Max                          | BTU/H | 5,000 - 24,000 |  |
|                            | Rated capacity (47°F [8.3°C])    |       | 17,300         |  |
|                            | Rated capacity (5°F [-15°C])     |       | 8,300          |  |
|                            | Efficiency                       | COP   | 3.56           |  |
| Sound                      | Indoor: Low-High at 1 m distance | db(A) | 44 - 54        |  |
|                            | Indoor: Low-High at 3 m distance |       | 36 - 46        |  |
|                            | Outdoor sound range              |       | 28 - 55        |  |
| Moisture removal           |                                  | Pts/h | 1.9            |  |
|                            |                                  | L/hr  | 0.9            |  |
| Airflow                    | Indoor                           | CFM   | 247 - 740      |  |
|                            |                                  | m³/hr | 420 - 1257     |  |
|                            | Outdoor                          | CFM   | 382 - 1110     |  |
|                            |                                  | m³/hr | 649 - 1886     |  |

| Electric Specifications            |               |
|------------------------------------|---------------|
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| Voltage Range                      | 180 - 253     |
| Running Amps Cooling               | 7.6           |
| Running Amps Heating               | 24.2          |
| MCA                                | 29            |
| Maximum Overcurrent Protection (A) | 35            |
| Max Power Input (amps) Cooling     | 11.2          |
| Max Power Input (amps) Heating     | 27            |

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

| Included                 | LCDI Power Cords | Amps | NEMA | SKU   |
|--------------------------|------------------|------|------|-------|
| <input type="checkbox"/> | Whip Cord Only   | -    |      | W226A |



### 9.3 230V Heat Pump + 4.5 kW Elec Heat - High Performance

AIO™ VERTICAL STACK XL + ERV - High Performance -  
230V - 4,500W ELECTRIC HEAT STRIP - R32 - SUBMITTAL  
(AXT20R3H2)

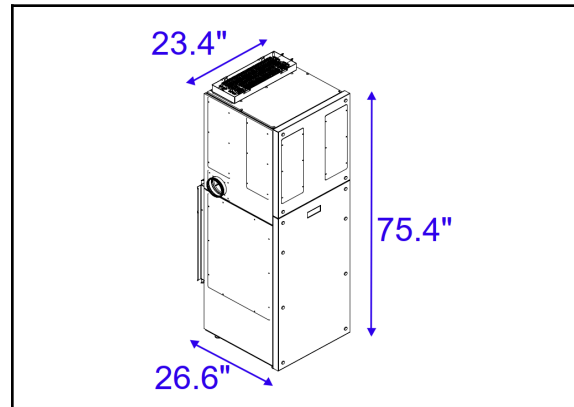
|              |              |                |
|--------------|--------------|----------------|
| Job          | Reference    | Construction   |
| Location     | Approval     | Quote Number   |
| Engineer     | Date         | Drawing Number |
| Submitted To | Submitted By | P.O. Number    |

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- ECM fans
- Integrated ERV
- R32 Refrigerant
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- No outdoor unit
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- 4 selectable fan speeds + Auto
- 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 | 4,500 - 24,000 |  |
|                            | Rated capacity (95°F [35°C])     |       | 20,300         |  |
|                            | Efficiency                       | EER2  | 11.65          |  |
| Heating                    | Min-Max                          | BTU/H | 5,000 - 24,000 |  |
|                            | Rated capacity (47°F [8.3°C])    |       | 17,300         |  |
|                            | Rated capacity (5°F [-15°C])     |       | 8,300          |  |
|                            | Efficiency                       | COP   | 3.56           |  |
| Sound                      | Indoor: Low-High at 1 m distance | db(A) | 44 - 54        |  |
|                            | Indoor: Low-High at 3 m distance |       | 36 - 46        |  |
|                            | Outdoor sound range              |       | 28 - 55        |  |
| Moisture removal           |                                  | Pts/h | 1.9            |  |
|                            |                                  | L/hr  | 0.9            |  |
| Airflow                    | Indoor                           | CFM   | 247 - 740      |  |
|                            |                                  | m³/hr | 420 - 1257     |  |
|                            | Outdoor                          | CFM   | 382 - 1110     |  |
|                            |                                  | m³/hr | 649 - 1886     |  |

| Electric Specifications            |               |
|------------------------------------|---------------|
| Power Supply                       | 230V/1Ph/60Hz |
| Voltage Range                      | 180 - 253     |
| Running Amps Cooling               | 7.6           |
| Running Amps Heating               | 28            |
| MCA                                | 33            |
| Maximum Overcurrent Protection (A) | 39            |
| Max Power Input (amps) Cooling     | 11.2          |
| Max Power Input (amps) Heating     | 31            |

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

| Included                 | LCDI Power Cords | Amps | NEMA | SKU   |
|--------------------------|------------------|------|------|-------|
| <input type="checkbox"/> | Whip Cord Only   | -    |      | W226A |

## 9.4 230V Heat Pump + 4.5 kW Elec Heat + 1kW Preheat - High Performance

AIO™ VERTICAL STACK XL + ERV - High Performance - 230V - 4,500W ELECTRIC HEAT STRIP + 1,000W PREHEATER - R32 -SUBMITTAL (AXY20R3H2)

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

### General Features

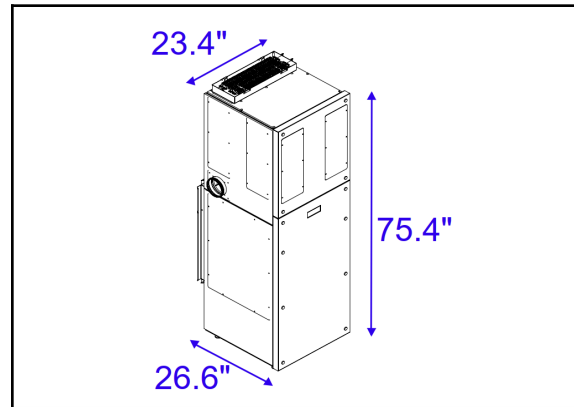
- BLDC inverter compressor
- ECM fans
- Integrated ERV
- R32 Refrigerant
- Electric resistance heat supplements with total output of 4,500W
- Additional 1,000W heater to preheat the air entering the ERV
- Intelligent defrost
- No outdoor unit
- Condensate disbursement systems
- Onboard touch controller
- Integrated ERV
- Washable filter
- Compact, slim design
- 4 selectable fan speeds + Auto
- 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 | 4,500 - 24,000 |  |
|                            | Rated capacity (95°F [35°C])     |       | 20,300         |  |
|                            | Efficiency                       | EER2  | 11.65          |  |
| Heating                    | Min-Max                          | BTU/H | 5,000 - 24,000 |  |
|                            | Rated capacity (47°F [8.3°C])    |       | 17,300         |  |
|                            | Rated capacity (5°F [-15°C])     |       | 8,300          |  |
|                            | Efficiency                       | COP   | 3.56           |  |
| Sound                      | Indoor: Low-High at 1 m distance | db(A) | 44 - 54        |  |
|                            | Indoor: Low-High at 3 m distance |       | 36 - 46        |  |
|                            | Outdoor sound range              |       | 28 - 55        |  |
| Moisture removal           |                                  | Pts/h | 1.9            |  |
|                            |                                  | L/hr  | 0.9            |  |
| Airflow                    | Indoor                           | CFM   | 247 - 740      |  |
|                            |                                  | m³/hr | 420 - 1257     |  |
|                            | Outdoor                          | CFM   | 382 - 1110     |  |
|                            |                                  | m³/hr | 649 - 1886     |  |

| Electric Specifications            |               |
|------------------------------------|---------------|
| Power Supply                       | 230V/1Ph/60Hz |
| Voltage Range                      | 180 - 253     |
| Running Amps Cooling               | 7.6           |
| Running Amps Heating               | 33            |
| MCA                                | 37            |
| Maximum Overcurrent Protection (A) | 43            |
| Max Power Input (amps) Cooling     | 11.2          |
| Max Power Input (amps) Heating     | 35            |

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

| Included                 | LCDI Power Cords | Amps | NEMA | SKU   |
|--------------------------|------------------|------|------|-------|
| <input type="checkbox"/> | Whip Cord Only   | -    |      | W226A |

## 9.5 230V Heat Pump Only – Energy Star Compliant

AIO™ VERTICAL STACK XL + ERV – Energy Star Compliant  
– 230V – NO ELECTRIC HEAT – R32 – SUBMITTAL  
(AXPI9R3H2)

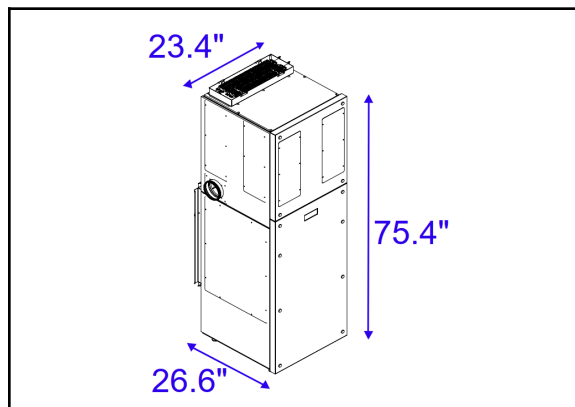
|              |              |                |
|--------------|--------------|----------------|
| Job          | Reference    | Construction   |
| Location     | Approval     | Quote Number   |
| Engineer     | Date         | Drawing Number |
| Submitted To | Submitted By | P.O. Number    |

### General Features

- BLDC inverter compressor
- ECM fans
- Integrated ERV
- 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
- 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 | 4,500 – 24,000 |
|                            | Rated capacity (95°F [35°C])     |       | 11,600         |
|                            | Efficiency                       | EER2  | 11.7           |
| Heating                    | Min-Max                          | BTU/H | 5,000 – 24,000 |
|                            | Rated capacity (47°F [8.3°C])    |       | 14,200         |
|                            | Rated capacity (5°F [-15°C])     |       | 8,200          |
|                            | Efficiency                       | COP   | 3.59           |
| Sound                      | Indoor: Low-High at 1 m distance | db(A) | 44 – 54        |
|                            | Indoor: Low-High at 3 m distance |       | 36 – 46        |
|                            | Outdoor sound range              |       | 28 – 55        |
| Moisture removal           |                                  | Pts/h | 1.9            |
|                            |                                  | L/hr  | 0.9            |
| Airflow                    | Indoor                           | CFM   | 247 – 740      |
|                            |                                  | m³/hr | 420 – 1257     |
|                            | Outdoor                          | CFM   | 382 – 1110     |
|                            |                                  | m³/hr | 649 – 1886     |

| Electric Specifications            |               |
|------------------------------------|---------------|
| Power Supply                       | 230V/1Ph/60Hz |
| Voltage Range                      | 180 – 253     |
| Running Amps Cooling               | 4.3           |
| Running Amps Heating               | 7.4           |
| MCA                                | 14            |
| Maximum Overcurrent Protection (A) | 20            |
| Max Power Input (amps) Cooling     | 11.2          |
| Max Power Input (amps) Heating     | 11.2          |

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

| Included                 | LCDI Power Cords   | Amps | NEMA  | SKU   |
|--------------------------|--------------------|------|-------|-------|
| <input type="checkbox"/> | 89 in. (2260.6 mm) | 15   | 6-15P | L259A |

## 9.6 230V Heat Pump + 3.6 kW Elec Heat - Energy Star Compliant

AIO™ VERTICAL STACK XL + ERV - Energy Star Compliant  
- 230V - 3,600W ELECTRIC HEAT STRIP - R32 - SUBMITTAL  
(AXM19R3H2)

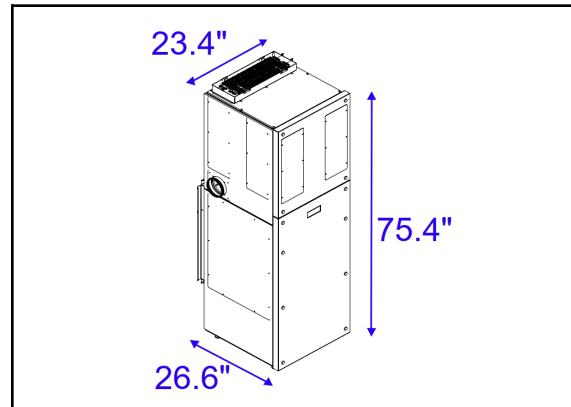
|              |              |                |
|--------------|--------------|----------------|
| Job          | Reference    | Construction   |
| Location     | Approval     | Quote Number   |
| Engineer     | Date         | Drawing Number |
| Submitted To | Submitted By | P.O. Number    |

### General Features

- BLDC inverter compressor
- ECM fans
- Integrated ERV
- R32 Refrigerant
- Electric resistance heat supplements with total output of 3,600W
- 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
- 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 | 4,500 - 24,000 |
|                            | Rated capacity (95°F [35°C])     |       | 11,600         |
|                            | Efficiency                       | EER2  | 11.7           |
| Heating                    | Min-Max                          | BTU/H | 5,000 - 24,000 |
|                            | Rated capacity (47°F [8.3°C])    |       | 14,200         |
|                            | Rated capacity (5°F [-15°C])     |       | 8,200          |
|                            | Efficiency                       | COP   | 3.59           |
| Sound                      | Indoor: Low-High at 1 m distance | db(A) | 44 - 54        |
|                            | Indoor: Low-High at 3 m distance |       | 36 - 46        |
|                            | Outdoor sound range              |       | 28 - 55        |
| Moisture removal           |                                  | Pts/h | 1.9            |
|                            |                                  | L/hr  | 0.9            |
| Airflow                    | Indoor                           | CFM   | 247 - 740      |
|                            |                                  | m³/hr | 420 - 1257     |
|                            | Outdoor                          | CFM   | 382 - 1110     |
|                            |                                  | m³/hr | 649 - 1886     |

| Electric Specifications            |               |
|------------------------------------|---------------|
| Power Supply                       | 230V/1Ph/60Hz |
| Voltage Range                      | 180 - 253     |
| Running Amps Cooling               | 4.3           |
| Running Amps Heating               | 23.1          |
| MCA                                | 29            |
| Maximum Overcurrent Protection (A) | 35            |
| Max Power Input (amps) Cooling     | 11.2          |
| Max Power Input (amps) Heating     | 27            |

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

| Included                 | LCDI Power Cords | Amps | NEMA | SKU   |
|--------------------------|------------------|------|------|-------|
| <input type="checkbox"/> | Whip Cord Only   | -    |      | W226A |

## 9.7 230V Heat Pump + 4.5 kW Elec Heat - Energy Star Compliant

AIO™ VERTICAL STACK XL + ERV - Energy Star Compliant  
- 230V - 4,500W ELECTRIC HEAT STRIP - R32 - SUBMITTAL  
(AXTI9R3H2)

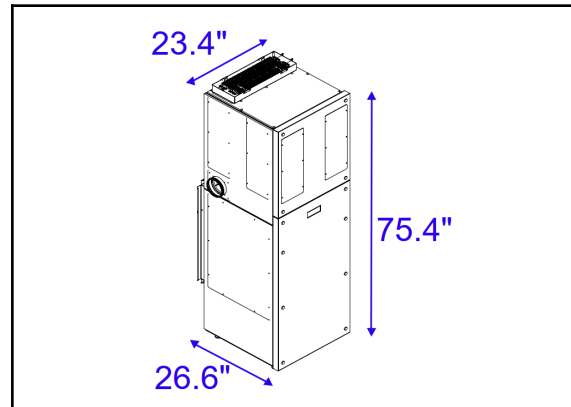
|              |              |                |
|--------------|--------------|----------------|
| Job          | Reference    | Construction   |
| Location     | Approval     | Quote Number   |
| Engineer     | Date         | Drawing Number |
| Submitted To | Submitted By | P.O. Number    |

### General Features

- BLDC inverter compressor
- ECM fans
- Integrated ERV
- R32 Refrigerant
- Electric resistance heat supplements with total output of 4,500W
- 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
- 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 | 4,500 - 24,000 |  |
|                            | Rated capacity (95°F [35°C])     |       | 20,300         |  |
|                            | Efficiency                       | EER2  | 11.65          |  |
| Heating                    | Min-Max                          | BTU/H | 5,000 - 24,000 |  |
|                            | Rated capacity (47°F [8.3°C])    |       | 17,300         |  |
|                            | Rated capacity (5°F [-15°C])     |       | 8,300          |  |
|                            | Efficiency                       | COP   | 3.56           |  |
| Sound                      | Indoor: Low-High at 1 m distance | db(A) | 44 - 54        |  |
|                            | Indoor: Low-High at 3 m distance |       | 36 - 46        |  |
|                            | Outdoor sound range              |       | 28 - 55        |  |
| Moisture removal           |                                  | Pts/h | 1.9            |  |
|                            |                                  | L/hr  | 0.9            |  |
| Airflow                    | Indoor                           | CFM   | 247 - 740      |  |
|                            |                                  | m³/hr | 420 - 1257     |  |
|                            | Outdoor                          | CFM   | 382 - 1110     |  |
|                            |                                  | m³/hr | 649 - 1886     |  |

| Electric Specifications            |               |
|------------------------------------|---------------|
| Power Supply                       | 230V/1Ph/60Hz |
| Voltage Range                      | 180 - 253     |
| Running Amps Cooling               | 7.6           |
| Running Amps Heating               | 28            |
| MCA                                | 33            |
| Maximum Overcurrent Protection (A) | 39            |
| Max Power Input (amps) Cooling     | 11.2          |
| Max Power Input (amps) Heating     | 31            |

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

| Included                 | LCDI Power Cords | Amps | NEMA | SKU   |
|--------------------------|------------------|------|------|-------|
| <input type="checkbox"/> | Whip Cord Only   | -    |      | W226A |

## 9.8 230V Heat Pump + 4.5 kW Elec Heat + 1kW Preheat – Energy Star Compliant

AIO™ VERTICAL STACK XL + ERV – Energy Star Compliant  
– 230V – 4,500W ELECTRIC HEAT STRIP + 1,000W  
PREHEATER – R32 – SUBMITTAL (AXY19R3H2)

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

### General Features

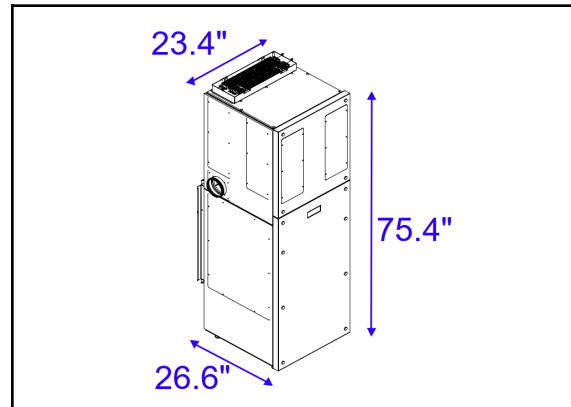
- BLDC inverter compressor
- ECM fans
- Integrated ERV
- R32 Refrigerant
- Electric resistance heat supplements with total output of 4,500W
- Additional 1,000W heater to preheat the air entering the ERV
- Intelligent defrost
- No outdoor unit
- Condensate disbursement systems
- Onboard touch controller
- Integrated ERV
- Washable filter
- Compact, slim design
- 4 selectable fan speeds + Auto
- 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 | 4,500 – 24,000 |
|                            | Rated capacity (95°F [35°C])     |       | 20,300         |
|                            | Efficiency                       | EER2  | 11.65          |
| Heating                    | Min-Max                          | BTU/H | 5,000 – 24,000 |
|                            | Rated capacity (47°F [8.3°C])    |       | 17,300         |
|                            | Rated capacity (5°F [-15°C])     |       | 8,300          |
|                            | Efficiency                       | COP   | 3.56           |
| Sound                      | Indoor: Low-High at 1 m distance | db(A) | 44 – 54        |
|                            | Indoor: Low-High at 3 m distance |       | 36 – 46        |
|                            | Outdoor sound range              |       | 28 – 55        |
| Moisture removal           |                                  | Pts/h | 1.9            |
|                            |                                  | L/hr  | 0.9            |
| Airflow                    | Indoor                           | CFM   | 247 – 740      |
|                            |                                  | m³/hr | 420 – 1257     |
|                            | Outdoor                          | CFM   | 382 – 1110     |
|                            |                                  | m³/hr | 649 – 1886     |

| Electric Specifications            |               |
|------------------------------------|---------------|
| Power Supply                       | 230V/1Ph/60Hz |
| Voltage Range                      | 180 – 253     |
| Running Amps Cooling               | 7.6           |
| Running Amps Heating               | 33            |
| MCA                                | 37            |
| Maximum Overcurrent Protection (A) | 43            |
| Max Power Input (amps) Cooling     | 11.2          |
| Max Power Input (amps) Heating     | 35            |

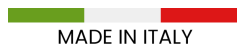
| Included                 | Wall Controllers + Gateways                                                         |        |
|--------------------------|-------------------------------------------------------------------------------------|--------|
| <input type="checkbox"/> | Wireless Remote        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

| Included                 | LCDI Power Cords | Amps | NEMA | SKU   |
|--------------------------|------------------|------|------|-------|
| <input type="checkbox"/> | Whip Cord Only   | –    |      | W226A |



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

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Revised August 12, 2026

AIO™ Vertical Stack XL with ERV **Product Data Sheet**