

# AIO™ Ceiling Suspended (with ERV option)

## Product Data Sheet



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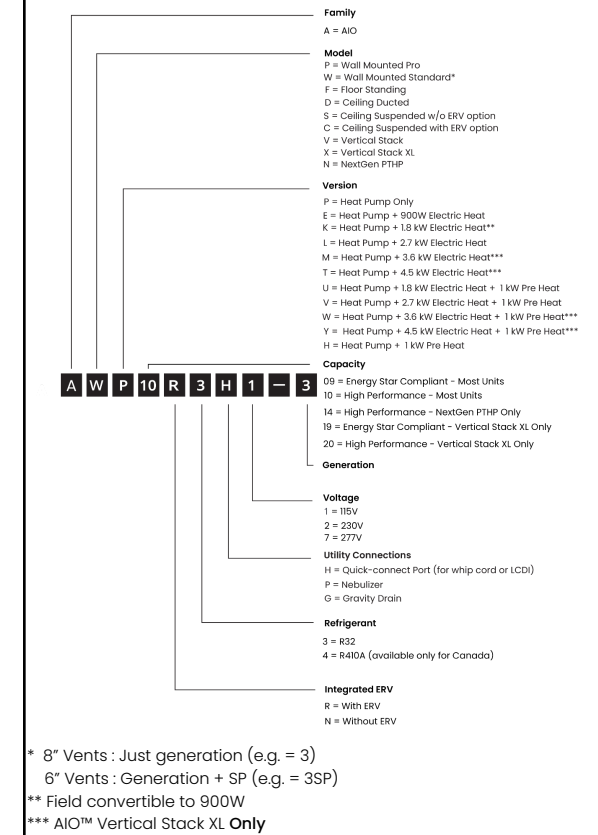
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## MODEL NUMBER NOMENCLATURE

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™ Ceiling Suspended with ERV option (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.



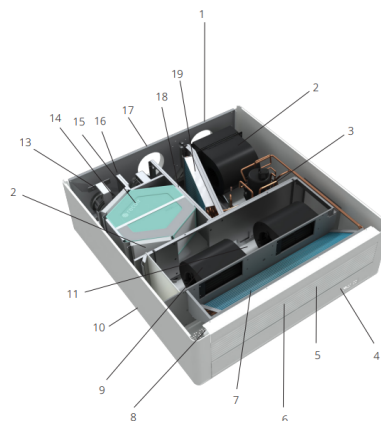
Indicates supplemental information, tips, or useful background information.

## 2. AIO™ CEILING SUSPENDED (WITH ERV OPTION)

AIO™ Ceiling Suspended can be discreetly installed above a ceiling and is ideal for single room or multi-room applications. The return can be from the sides or the bottom for maximum flexibility. With up to 0.7" (17.8 mm) external static pressure, this unit can be used where ducting is required. Use with any interior grille and louver to provide additional design flexibility.

### 2.1 Components and structure

Figure 2. AIO™ Ceiling Suspended (with ERV option) components and structure



|    |                                 |    |                              |
|----|---------------------------------|----|------------------------------|
| 1  | Condenser + stale air exhaust   | 11 | Return air filter            |
| 2  | ECM Condenser Fan               | 12 | MERV 13 filter               |
| 3  | Twin rotary inverter compressor | 13 | Fresh air ECM supply fan     |
| 4  | Touch controller                | 14 | MERV 13 filter               |
| 5  | 900/1800W electric heat strip   | 15 | Hybrid recovery core         |
| 6  | Supply air vent                 | 16 | Stale air ECM exhaust fan    |
| 7  | High-efficiency indoor coil     | 17 | Condenser + fresh air intake |
| 8  | Controllers                     | 18 | Condensate drain             |
| 9  | EC supply fans                  | 19 | High efficiency outdoor coil |
| 10 | Return air on the bottom        |    |                              |

## 2.2 Key Features

#### No outdoor unit

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

#### Twin rotary BLDC inverter compressor

The state-of-the-art twin rotary BLDC inverter compressor operates efficiently, quietly, and with minimal vibration. AIO™ Ceiling Suspended (with ERV option) is ideal for any room or area that requires between 3,100 and 15,000 Btu/h of cooling capacity, or between 3,500 and 14,000 Btu/h of heating capacity.

#### Integrated ERV (Optional)

AIO™ Ceiling Suspended with ERV's integrated ERV (Optional) eliminates the requirement of installing an independent ERV system, ducting, electrical work, and engineering.

#### Recovery Plus™

With a patent-pending innovation, AIO™ Ceiling Suspended (with ERV option) utilizes the heat or cold remaining in the air after passing through the recovery core to lower or raise the temperature of the condenser, enabling a boost in performance and efficiency.

#### 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/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 ECM fans enable efficient and quiet operation as 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 functions efficiently at outdoor air temperatures as low as 5°F (-15°C), and continues operating at colder temperatures below -5°F (-20.6°C).

### Quiet

With whisper-quiet operation as low as 27 decibels, the occupant will barely notice the AIO™ Ceiling Suspended (with ERV option) is operating.

### Intelligent defrosting

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

### Optional 1,800-watt electric heat

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

### No outside noise infiltration

AIO™ Ceiling Suspended (with ERV option) has the lowest STC and OITC rating among comparable units. This means less outside noise intrudes into the room day and night.

### Versatile on/off options

AIO™'s low voltage connection enables connection to any occupancy system, key-card, window sensors, fire alarms, etc.; as long as it can send a signal to AIO™ 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 1.2" (30.5 mm) clearance on the sides.

### Leak protection

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

### Easy to service

AIO™ can be easily maintained and repaired from the bottom of the unit without having to remove the unit from the ceiling.

### Versatile controls

AIO™ includes an onboard touch controller and an optional iOS and Android app. AIO™ can be used with optional wall-mounted controllers, including a TFT with 7 7-day program and third-party controllers from any company using the optional 3rd party kit. An optional BACnet and Modbus module enables interfacing with building management systems.

## 3. AIRFLOW

### 3.1 Airflow Operation

AIO™ Ceiling Suspended (with ERV option) is flexible in many ways. This flexibility enables AIO™ Ceiling Suspended (with ERV option) to be placed anywhere in a dwelling without restrictions.

- **Supply air**

The supply air is through the fixed front louver.

- **Stale air exhaust**

The room air and exhaust air are returned to the unit through the integrated return air grille on the bottom of the unit.

- **Return air**

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.

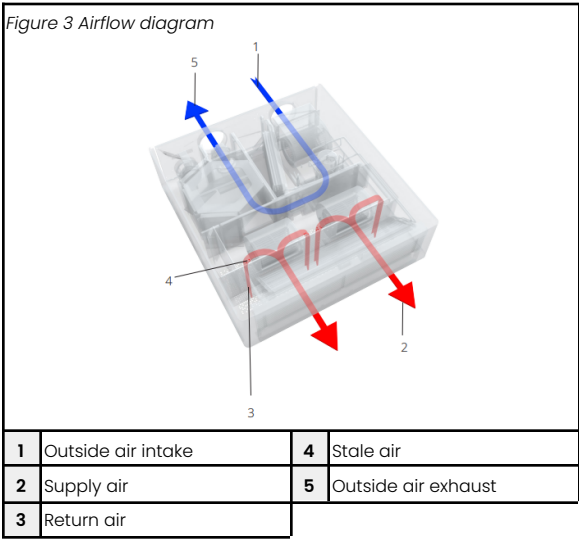
- **Outside air intake**

The single 8" (203.2 mm) round outside air intake connection provides air for the condenser portion and fresh air for the inside. This can be supported with an ERV (Optional) with up to 0.7" WC (174.4 Pa) external static pressure (combined between intake and exhaust).

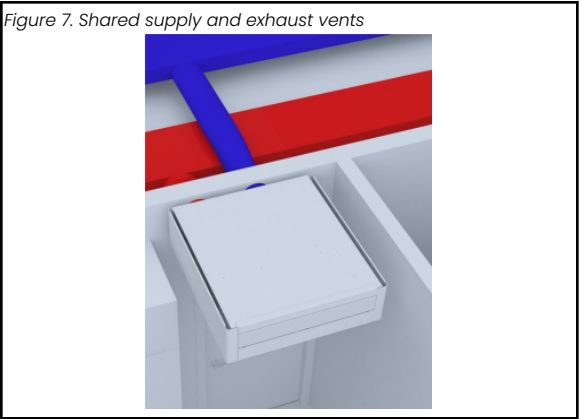
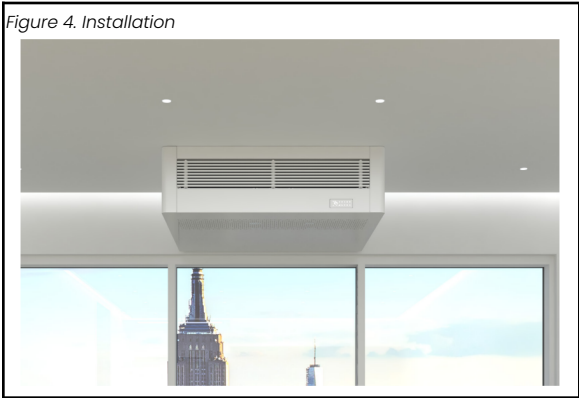
- **Outside air exhaust**

The single 8" (203.2 mm) round outside air exhaust connection is for the condenser portion and the stale air exhaust. This can be supported with an ERV (Optional) with up to 0.7" WC (174.4 Pa) external static pressure (combined between intake and exhaust).

3.2 Airflow Diagram



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 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.

### 4.3 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).



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.

### 4.4 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.
- The power supply circuit is installed in accordance with the current edition of NEC (ANSI/NFPA 70) and local codes and ordinances.



- Always consult local and national electrical codes before installing the unit.
- Damage or premature failure of the quoted equipment resulting from improper voltage conditions, inadequate electrical service, or operating the equipment with excessive THD (Total Harmonic Distortion) levels will void the Manufacturer's warranty.



- Do not operate the unit in or near a construction or renovation site. Dust and debris can enter the unit, causing malfunctions and reduced performance.
- 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.

- Voltage rating of 60 Hz, 115V or 208V/230V single phase.
- 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.
- An internal drain 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.
- Approved louvers installed with best practices to ensure 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, installed properly, and balanced.
- The unit must be perfectly level on both the horizontal and vertical axes.
- Interior clearances are required only to prevent vibration. Leave at least 1.2" (30.5 mm) of clearance from any surface. All other clearances are solely dependent on ducting.
- The unit must be tight to ducts, with zero leakage between the external ducts and the unit.
- The ceiling bracket is properly affixed to studs or other supporting material.
- Exterior vents must remain unblocked, with no obstacles within 36" (914.4 mm) of the air intake and discharge.

### 4.5 Louver Specifications

AIO™ Ceiling Suspended (with ERV option) units can be vented through all kinds of custom and creative solutions. The possibilities are endless, from perforated panels to custom louvers. There are two critical factors in selecting and sizing a solution that will work with AIO™ Ceiling Suspended (with ERV option) units.

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



The minimum free area required is 0.34 square feet (0.03 m<sup>2</sup>) for the intake vent and 0.34 square feet (0.03 m<sup>2</sup>) 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 in 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 inWC (174.4 Pa).

Any louver or louver assembly must meet these requirements. Exceeding these limits may cause the unit to overheat and fail, and void the warranty.

The following louvers are approved for AIO™ Ceiling Suspended (with ERV option) units:

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

## 4.6 Minimum installation distances

The clearance zones for the installation and maintenance of the appliance are shown in the figure. Established spaces are necessary to avoid barriers to airflow and allow for normal cleaning and maintenance.



Make sure that there is sufficient space to allow the panels to be removed for routine and supplementary maintenance operations.

Figure 8. Minimum installation distances

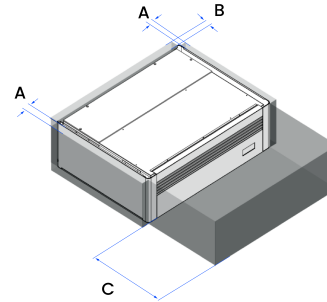
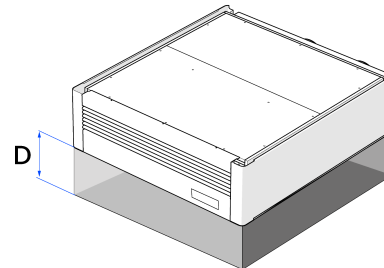


Figure 9. Minimum installation distances



### Minimum distances

- **A:** 1.2 in (30.5 mm)
- **B:** 1.2 in (30.5 mm)
- **C:** 19.7 in (500.4 mm)
- **D:** 9.8 in (248.9 mm)



If the unit is installed without flanges, place the appliance flush against the wall, disregarding the minimum installation distance 'B' mentioned earlier.

## 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 | 15,000                | 11,400                   | 9,825                    |
|                  | Recommended* |        | 9,400                 | 8,200                    | 7,300                    |
|                  | Rated        |        | 7,700                 | 7,345                    | 6,550                    |
|                  | Minimum      |        | 3,100                 | 3,100                    | 3,100                    |
| Input Power      | Maximum      | W      | 1,580                 | 1,640                    | 1,700                    |
|                  | Recommended* |        | 960                   | 950                      | 1,040                    |
|                  | Rated        |        | 732                   | 825                      | 904                      |
|                  | Minimum      |        | 230                   | 255                      | 285                      |
| Efficiency       | Maximum      | EER    | 9.49                  | 6.96                     | 5.78                     |
|                  | Recommended* |        | 9.79                  | 8.60                     | 7.0                      |
|                  | Rated        | EER2   | 10.55                 | 8.90                     | 7.25                     |
|                  | Seasonal     | SEER2  | 13.85                 | –                        | –                        |
| 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 – Heat pump only

Table 2. High performance – Heating

| 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 | 14,000                     | 10,000                      | 6,600                 | 6,300                       | 5,800                        |
|                | Recomm-<br>ended* |            | 9,200                      | 9,300                       | 6,200                 | 5,935                       | 5,570                        |
|                | Rated             |            | 8,600                      | 8,300                       | 6,200                 | 5,935                       | 5,570                        |
|                | Minimum           |            | 3,500                      | 3,300                       | 2,800                 | 2,500                       | 2,500                        |
| Input<br>Power | Maximum           | W          | 1,420                      | 1,460                       | 1,700                 | 1,600                       | 1,650                        |
|                | Recomm-<br>ended* |            | 774                        | 990                         | 1,086                 | 1,062                       | 1,013                        |
|                | Rated             |            | 695                        | 860                         | 1,086                 | 1,062                       | 1,013                        |
|                | Minimum           |            | 315                        | 420                         | 440                   | 430                         | 480                          |
| Efficiency     | Maximum           | COP        | 2.89                       | 2.01                        | 1.13                  | 1.14                        | 1.04                         |
|                | Recomm-<br>ended* |            | 3.48                       | 2.80                        | 1.68                  | 1.64                        | 1.61                         |
|                | Rated             |            | 3.64                       | 2.83                        | 1.68                  | 1.64                        | 1.61                         |
|                | Minimum           |            | 3.26                       | 2.30                        | 1.87                  | 1.70                        | 1.53                         |
|                | Seasonal          | HSPF2      | 9.15                       | -                           | -                     | -                           | -                            |

### Notes

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

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



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

## 5.2 Energy Star Compliant

### 5.2.1 Cooling

Table 3. Energy Star compliant – Cooling

| Heat Pump        |              |        | 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 | 15,000                | 11,400                   | 9,825                    |
|                  | Recommended* |        | 9,400                 | 8,200                    | 7,300                    |
|                  | Rated        |        | 6,100                 | 7,345                    | 6,550                    |
|                  | Minimum      |        | 3,100                 | 3,100                    | 3,100                    |
| Input Power      | Maximum      | W      | 1,580                 | 1,640                    | 1,700                    |
|                  | Recommended* |        | 960                   | 950                      | 1,040                    |
|                  | Rated        |        | 528                   | 825                      | 904                      |
|                  | Minimum      |        | 230                   | 255                      | 285                      |
| Efficiency       | Maximum      | EER    | 9.49                  | 6.96                     | 5.78                     |
|                  | Recommended* |        | 9.79                  | 8.60                     | 7.00                     |
|                  | Rated        | EER2   | 11.56                 | 8.90                     | 7.25                     |
|                  | Seasonal     | SEER2  | 15.3                  | -                        | -                        |
| 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 – 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 | 14,000                     | 10,000                      | 6,600                 | 6,300                       | 5,800                        |
|                | Recomm-<br>ended* |            | 9,200                      | 8,700                       | 6,200                 | 5,935                       | 5,570                        |
|                | Rated             |            | 8,200                      | 7,800                       | 5,900                 | 5,935                       | 5,570                        |
|                | Minimum           |            | 3,500                      | 3,300                       | 2,800                 | 2,500                       | 2,500                        |
| Input<br>Power | Maximum           | W          | 1,420                      | 1,460                       | 1,700                 | 1,600                       | 1,650                        |
|                | Recomm-<br>ended* |            | 774                        | 920                         | 1,086                 | 1,062                       | 1,013                        |
|                | Rated             |            | 640                        | 804                         | 988                   | 1,062                       | 1,013                        |
|                | Minimum           |            | 315                        | 420                         | 440                   | 430                         | 480                          |
| Efficiency     | Maximum           | COP        | 2.89                       | 2.01                        | 1.13                  | 1.14                        | 1.04                         |
|                | Recomm-<br>ended* |            | 3.48                       | 2.80                        | 1.68                  | 1.64                        | 1.61                         |
|                | Rated             |            | 3.76                       | 2.84                        | 1.75                  | 1.64                        | 1.61                         |
|                | Minimum           |            | 3.26                       | 2.30                        | 1.87                  | 1.70                        | 1.53                         |
|                | Seasonal          | HSPF<br>2  | 9.2                        | -                           | -                     | -                           | -                            |

### Notes

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

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



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

## 5.3 Airflow

### 5.3.1 Indoor

Table 5. Airflow - Indoor

| Air volume |                   |                             |
|------------|-------------------|-----------------------------|
| Indoor     | Type              | ECM centrifugal             |
|            | CFM               | 226 - 350                   |
|            | m³/hr             | 384- 595                    |
|            | Available ESP     | -                           |
|            | Supply connection | Integrated front            |
|            | Return connection | Integrated bottom           |
|            | Speeds            | Low, med, high, boost, auto |
|            | Filter            | MERV 3                      |

### 5.3.2 Outdoor

Table 6. Airflow - Outdoor

| Air volume |                               |                                                             |
|------------|-------------------------------|-------------------------------------------------------------|
| Outdoor    | Type                          | ECM centrifugal                                             |
|            | CFM                           | 385-638                                                     |
|            | m³/hr                         | 654 - 1084                                                  |
|            | Available ESP                 | With ERV: 0.7" WC (174.4 Pa)<br>No ERV: 0.45" WC (112.1 Pa) |
|            | Intake and Exhaust Connection | 8" (203.2 mm) round                                         |
|            | Speeds                        | Low, med, high, auto                                        |

## 5.4 Sound

Table 7. Sound

| Sound    |          |                  |                     |
|----------|----------|------------------|---------------------|
| Location | Distance | Fan Speed        | Sound Level (dB(A)) |
| Indoor   | 1 m      | Level 1 - Low    | 37                  |
|          |          | Level 2 - Medium | 47                  |
|          |          | Level 3 - High   | 48                  |
|          | 3 m      | Level 1 - Low    | 29                  |
|          |          | Level 2 - Medium | 39                  |
|          |          | Level 3 - High   | 40                  |
| Outdoor  | -        | Range            | 28 - 55             |

## 5.5 General

### 5.5.1 Controls

Table 8. 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 |

### 5.5.2 Modes

Table 9. General - Modes

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

### 5.5.3 Condensate

Table 10. General - Condensate

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

### 5.5.4 Physical



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

Table 11. General - Physical

| Physical data |          |    |                          |
|---------------|----------|----|--------------------------|
| Dimensions    |          | in | 41.4 W x 44.4 D x 11.5 H |
|               |          | mm | 1052 W x 1148 D x 295 H  |
| Weight        | Net      | lb | 203                      |
|               |          | kg | 92.1                     |
|               | Gross    | lb | 214                      |
|               |          | kg | 97.1                     |
| Cabinet       | Finish   |    | RAL 9003 signal white    |
|               | Material |    | Steel                    |

### 5.5.5 General

Table 12. General - Compressor

| Compressor  |                                     |                  |                      |
|-------------|-------------------------------------|------------------|----------------------|
| Type        | BLDC twin rotary inverter           |                  |                      |
| Refrigerant | For R-32 Units                      | Refrigerant Type | R-32                 |
|             |                                     | Charge           | 16.93 oz.<br>0.48 kg |
|             | For R-410A Units                    | Refrigerant Type | R-410A               |
|             |                                     | Charge           | 23.97 oz.<br>680 g   |
| Oil Type    | Fv50s (ISO 50) Polyvinylether (PVE) |                  |                      |

### 5.5.6 Insulation

Table 13. 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.

## 5.6 ERV (Optional)

Table 14. ERV (Optional)

| 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  |
|                   | m³/h                                                   | 17-136 |

Table 15. ERV (Optional)

|                              |             | 40 CFM<br>(68 m <sup>3</sup> /hr) | 60 CFM<br>(102 m <sup>3</sup> /hr) | 80 CFM<br>(136 m <sup>3</sup> /hr) |
|------------------------------|-------------|-----------------------------------|------------------------------------|------------------------------------|
| Efficiency of core in winter | Sensible    | 81.8%                             | 78.2%                              | 74.6%                              |
|                              | Latent      | 58.4%                             | 54.7%                              | 51.1%                              |
| Efficiency of core in summer | Sensible    | 80.6%                             | 76.5%                              | 72.5%                              |
|                              | Latent      | 57.5%                             | 53.4%                              | 49.3%                              |
| Filter                       | Indoor air  | MERV 3 / optional MERV 13         |                                    |                                    |
|                              | Outside air | MERV 13                           | MERV 13                            | MERV 13                            |
| Leakage                      | Internal    | 2.6% at 0.40" WC (99.6 Pa)        | 2.4% at 0.40" WC (99.6 Pa)         | 2.2% at 0.40" WC (99.6 Pa)         |
|                              | External    | 2.8% at 1.0" WC (249.1 Pa)        | 2.7% at 1.0" WC (249.1 Pa)         | 2.5% at 1.0" WC (249.1 Pa)         |

## 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             |         |
| Power factor                             |  | 0.96                 |         |
| Input power (standby)                    |  | 10.8                 |         |
| Input power (off mode)                   |  | 1.5                  |         |
| Cooling +ERV (nominal)                   |  | 8.2                  | 4.1     |
| Cooling - heat pump + ERV (max)          |  | 20.9                 | 9.5     |
| <b>Heat Pump Only</b>                    |  |                      |         |
| Heating - heat pump +ERV (nom.)          |  | 10.0                 | 5.0     |
| Heating-heat pump + ERV (max)            |  | 20.9                 | 9.5     |
| <b>Heat Pump + 900 W Elec Heat</b>       |  |                      |         |
| Heating-heat pump+ Elec Heat +ERV (nom.) |  | 10.0                 | 5.0     |
| Heating-heat pump+ Elec Heat + ERV (max) |  | 29.1                 | 17.3    |
| <b>Heat Pump + 1800 W Elec Heat</b>      |  |                      |         |
| Heating-heat pump+ Elec Heat +ERV (nom.) |  | 10.0                 | 5.0     |
| Heating-heat pump+ Elec Heat + ERV (max) |  | 29.1                 | 17.3    |

Table 17. Electrical - Circuit breakers

| Circuit breakers                  |      |   | 115V | 230V |
|-----------------------------------|------|---|------|------|
| Heat Pump + ERV                   | MCA  | A | 25   | 11   |
|                                   | MOCB |   | 35   | 15   |
| Heat Pump + 900W Elec Heat + ERV  | MCA  | A | 33   | -    |
|                                   | MOCB |   | 45   | -    |
| Heat Pump + 1800W Elec Heat + ERV | MCA  | A | -    | 19   |
|                                   | MOCB |   | -    | 20   |

### 5.7.2 Motors

Table 18. Electrical - Motors

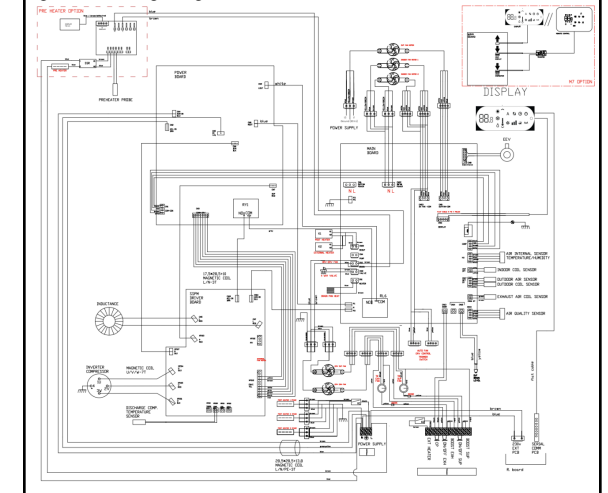
| Compressor                                       |             |    | 115V  | 230V |
|--------------------------------------------------|-------------|----|-------|------|
| Compressor                                       | RLA         | A  | 13.0  | 6.0  |
|                                                  | LRA         |    | 13.0  | 6.0  |
| Indoor ECM fan motor                             | Watts (max) | W  | 260   | 200  |
|                                                  | FLA         | A  | 3.4   | 1.2  |
|                                                  | Power       | HP | 0.125 | 0.10 |
| Outdoor ECM fan motor - heat pump + ERV          | Watts (max) | W  | 150   | 150  |
|                                                  | FLA         | A  | 2.1   | 1.1  |
|                                                  | Power       | HP | 0.10  | 0.10 |
| Outdoor ECM fan motor - heat pump + heater + ERV | Watts (max) | W  | 150   | 150  |
|                                                  | FLA         | A  | 2.1   | 1.1  |
|                                                  | Power       | HP | 0.10  | 0.10 |

## 6. WIRING DIAGRAM

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

[PDF AIO Ceiling Suspended \(with ERV option\) Wiring D...](#)

Figure 10. Wiring Diagram



6.1 Notes

Table 20. Electric Heat Description

| Electric Heat - Description |       |             |                                                                                     |
|-----------------------------|-------|-------------|-------------------------------------------------------------------------------------|
| Digital Inputs              | CNI3  | Door        | Presence contact for CP terminals (presence contact)                                |
|                             | CNI4  |             | Drain pump start level                                                              |
|                             | CNI5  |             | Drain alarm                                                                         |
| Analog Inputs               | ZE    |             | Internal air quality sensor (placed on air inlet)                                   |
|                             | HU    |             | Internal air Humidity and temperature Probes (placed on air inlet)                  |
|                             | CNI7  | OT          | External temperature probe (placed on external air inlet) NTC 5.28kΩ at 77°F (25°C) |
|                             | CNI7  | OPT         | Condenser probe (placed on pipe of external coil) NTC 5.28kΩ at 77°F (25°C)         |
|                             | CN7   | IPT         | Evaporator probe (placed on pipe internal coils) NTC 5.28kΩ at 77°F (25°C)          |
|                             | CNI6  | GT          | Exhaust air probe (placed on air exhaust) NTC 5.28kΩ at 77°F (25°C)                 |
|                             | XP209 |             | Compressor discharge temperature probe NTC 58kΩ at 77°F (25°C)                      |
| Digital outputs             | CN2   | Valve       | Summer/winter reversing valve                                                       |
|                             | CNI   | Heater      | External heater (230VAC/5A)                                                         |
|                             | CN4   | Pump        | Drain pump                                                                          |
| Analog outputs              | CN23  | In fan      | Driving signal 0-10V external fan                                                   |
|                             | CN9   | Out fan con | Driving signal 0-10V external fan                                                   |
|                             | CNI9  | Step Motor  | Driving a step motor for the damper                                                 |
|                             | CNI0  | Step Motor  | Driving a step motor for the damper                                                 |
|                             | CNI1  | Display     | Display touch connection                                                            |

7. DIMENSIONS

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

[AIO Ceiling Suspended \(with ERV option\) Dimensi...](#)

Figure 11. Dimensions

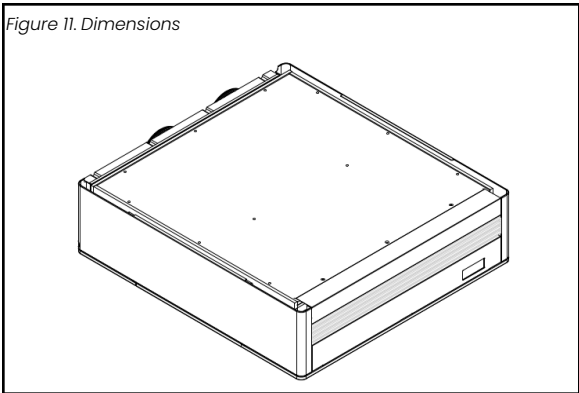


Figure 12. Top view

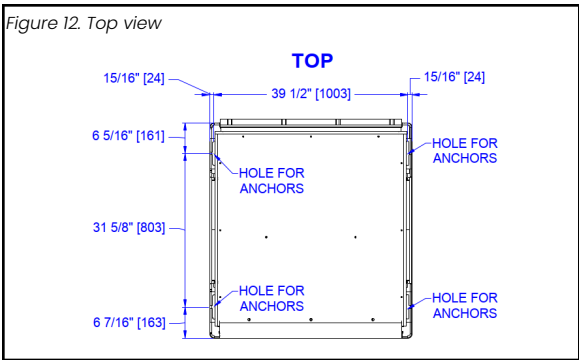


Figure 13. Left view

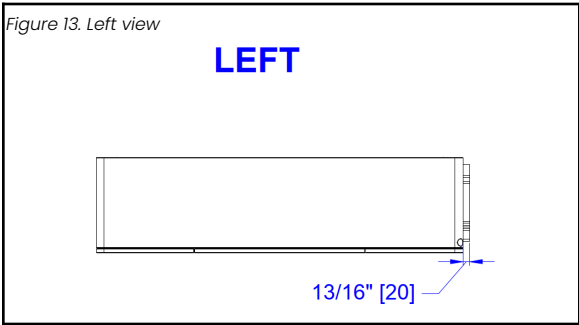


Figure 14. Front view

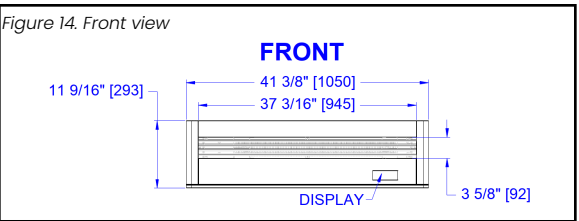


Figure 15. Right view

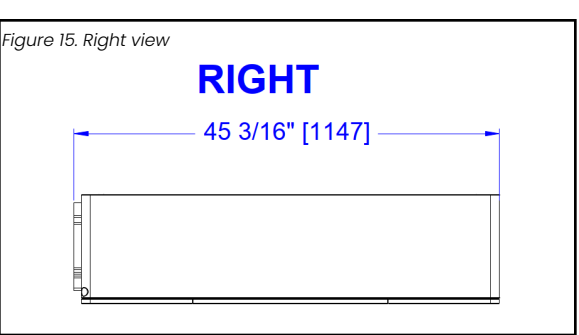


Figure 16. Bottom view

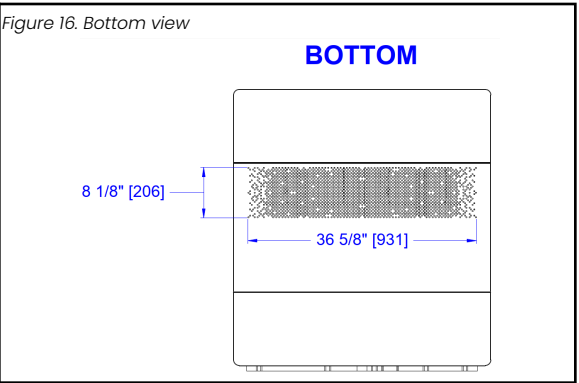
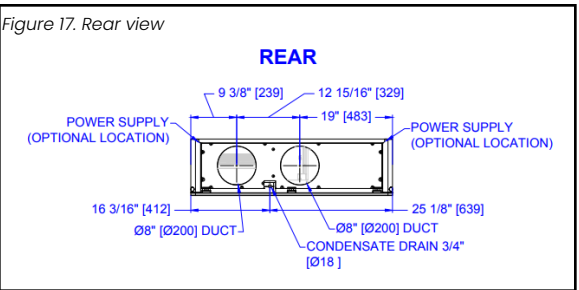


Figure 17. Rear view



## 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 115V Heat pump only - High Performance

AIO™ CEILING SUSPENDED WITH ERV OPTION - 115V - +  
ERV - NO ELECTRIC HEAT STRIP R32 -SUBMITTAL  
(ACP10R3H1)

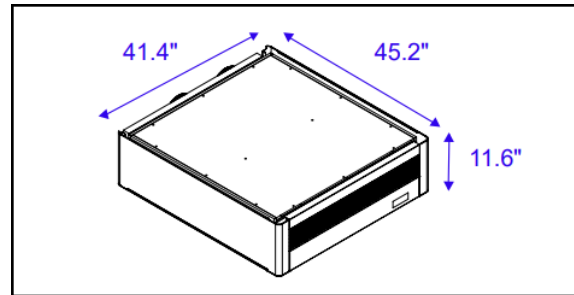
| Job          | Reference    | Construction   |
|--------------|--------------|----------------|
| Location     | Approval     | Quote Number   |
| Engineer     | Date         | Drawing Number |
| Submitted To | Submitted By | P.O. Number    |

#### General Features

- BLDC inverter compressor
- ECM fans
- Integrated ERV
- MERV 13 filters on fresh air
- R32 Refrigerant
- Auto restart
- Intelligent defrost
- No outdoor unit
- Onboard touch controller
- Washable filters
- 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 | 15,000 - 3,100 |  |
|                            | Rated capacity (95°F [35°C])     |       | 7,700          |  |
|                            | Efficiency                       | EER2  | 10.55          |  |
| Heating                    | Min-Max                          | BTU/H | 14,000 - 3,500 |  |
|                            | Rated capacity (47°F [8.3°C])    |       | 8,600          |  |
|                            | Rated capacity (5°F [-15°C])     |       | 6,200          |  |
|                            | Efficiency                       | COP   | 3.64           |  |
| Sound                      | Indoor: Low-High at 1 m distance | db(A) | 37 - 48        |  |
|                            | Indoor: Low-High at 3 m distance |       | 29 - 40        |  |
|                            | Outdoor sound range              |       | 28 - 55        |  |
| Moisture removal           |                                  | Pts/h | 1.8            |  |
|                            |                                  | L/hr  | 0.9            |  |
| Airflow                    | Indoor                           | CFM   | 226 - 350      |  |
|                            |                                  | m³/hr | 384 - 595      |  |
|                            | 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               | 8.2           |
| Running Amps Heating               | 10.0          |
| MCA                                | 25            |
| Maximum Overcurrent Protection (A) | 35            |
| Max Power Input (amps) Cooling     | 20.9          |
| Max Power Input (amps) Heating     | 10.0          |

| 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    |

9.2 115V Heat pump + elec heat – High Performance

AIO™ CEILING SUSPENDED WITH ERV OPTION – 115V – 900W ELECTRIC HEAT – R32 –+ ERV – SUBMITTAL (ACE10R3HI)

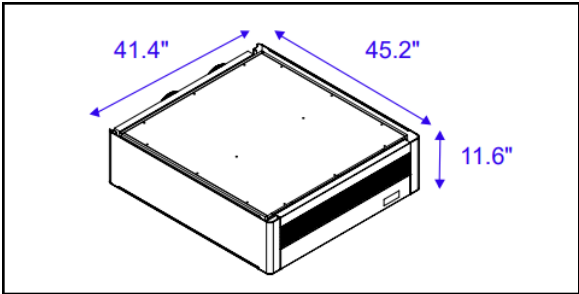
|              |              |                |
|--------------|--------------|----------------|
| Job          | Reference    | Construction   |
| Location     | Approval     | Quote Number   |
| Engineer     | Date         | Drawing Number |
| Submitted To | Submitted By | P.O. Number    |

General Features

- BLDC inverter compressor
  - ECM fans
  - 900W Electric heat supplement
  - Integrated ERV
  - MERV 13 filters on fresh air
  - R32 Refrigerant
- Auto restart
  - Intelligent defrost
  - No outdoor unit
  - Onboard touch controller
  - Washable filters
  - 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 | 15,000 – 3,100 |  |
|                            | Rated capacity (95°F [35°C])     |       | 7,700          |  |
|                            | Efficiency                       | EER2  | 10.55          |  |
| Heating                    | Min-Max                          | BTU/H | 14,000 – 3,500 |  |
|                            | Rated capacity (47°F [8.3°C])    |       | 8,600          |  |
|                            | Rated capacity (5°F [-15°C])     |       | 6,200          |  |
|                            | Efficiency                       | COP   | 3.64           |  |
| Sound                      | Indoor: Low-High at 1 m distance | db(A) | 37 – 48        |  |
|                            | Indoor: Low-High at 3 m distance |       | 29 – 40        |  |
|                            | Outdoor sound range              |       | 28 – 55        |  |
| Moisture removal           |                                  | Pts/h | 1.8            |  |
|                            |                                  | L/hr  | 0.9            |  |
| Airflow                    | Indoor                           | CFM   | 226 – 350      |  |
|                            |                                  | m³/hr | 384 – 595      |  |
|                            | 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               | 8.2           |
| Running Amps Heating               | 10.0          |
| MCA                                | 33            |
| Maximum Overcurrent Protection (A) | 45            |
| Max Power Input (amps) Cooling     | 20.9          |
| Max Power Input (amps) Heating     | 29.1          |

| 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    |

9.3 230V Heat pump only - High Performance

AIO™ CEILING SUSPENDED WITH ERV OPTION - 230V - NO ELECTRIC HEAT STRIP - R32 -SUBMITTAL (ACPI0R3H2)

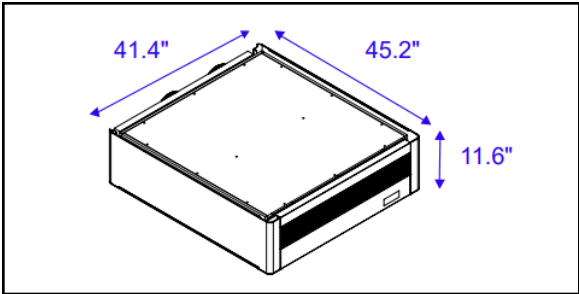
|              |              |                |
|--------------|--------------|----------------|
| Job          | Reference    | Construction   |
| Location     | Approval     | Quote Number   |
| Engineer     | Date         | Drawing Number |
| Submitted To | Submitted By | P.O. Number    |

General Features

- BLDC inverter compressor
  - ECM fans
  - Integrated ERV
  - MERV 13 filters on fresh air
  - R410A R32 Refrigerant
  - Auto restart
- Intelligent defrost
  - No outdoor unit
  - Onboard touch controller
  - Washable filters
  - 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 | 15,000 - 3,100 |  |
|                            | Rated capacity (95°F [35°C])     |       | 7,700          |  |
|                            | Efficiency                       | EER2  | 10.55          |  |
| Heating                    | Min-Max                          | BTU/H | 14,000 - 3,500 |  |
|                            | Rated capacity (47°F [8.3°C])    |       | 8,600          |  |
|                            | Rated capacity (5°F [-15°C])     |       | 6,200          |  |
|                            | Efficiency                       | COP   | 3.64           |  |
| Sound                      | Indoor: Low-High at 1 m distance | db(A) | 37 - 48        |  |
|                            | Indoor: Low-High at 3 m distance |       | 29 - 40        |  |
|                            | Outdoor sound range              |       | 28 - 55        |  |
| Moisture removal           |                                  | Pts/h | 1.8            |  |
|                            |                                  | L/hr  | 0.9            |  |
| Airflow                    | Indoor                           | CFM   | 226 - 350      |  |
|                            |                                  | m³/hr | 384 - 595      |  |
|                            | 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               | 4.1           |
| Running Amps Heating               | 5.0           |
| MCA                                | 11            |
| Maximum Overcurrent Protection (A) | 15            |
| Max Power Input (amps) Cooling     | 9.5           |
| Max Power Input (amps) Heating     | 9.5           |

| 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    |

## 9.4 230V Heat pump + elec heat – High Performance

AIO™ CEILING SUSPENDED WITH ERV OPTION – 230V + 1800W ELECTRIC HEAT + ERV – R32 – SUBMITTAL (ACK10R3H2)

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

### General Features

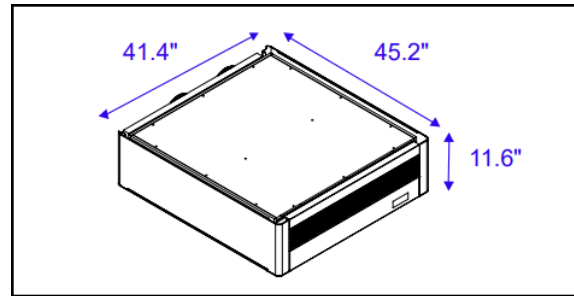
- BLDC inverter compressor
- ECM fans
- Field configured 900W or 1,800W Electric heat supplement
- Integrated ERV
- MERV 13 filters on fresh air
- R32 Refrigerant
- Auto restart
- Intelligent defrost
- No outdoor unit
- Onboard touch controller
- Washable filters
- 4 selectable fan speeds + Auto
- 10-Year 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 | 15,000 – 3,100 |
|                            | Rated capacity (95°F [35°C])     |       | 7,700          |
|                            | Efficiency                       | EER2  | 10.55          |
| Heating                    | Min-Max                          | BTU/H | 14,000 – 3,500 |
|                            | Rated capacity (47°F [8.3°C])    |       | 8,600          |
|                            | Rated capacity (5°F [-15°C])     |       | 6,200          |
|                            | Efficiency                       | COP   | 3.64           |
| Sound                      | Indoor: Low-High at 1 m distance | db(A) | 37 – 48        |
|                            | Indoor: Low-High at 3 m distance |       | 29 – 40        |
|                            | Outdoor sound range              |       | 28 – 55        |
| Moisture removal           |                                  | Pts/h | 1.8            |
|                            |                                  | L/hr  | 0.9            |
| Airflow                    | Indoor                           | CFM   | 226 – 350      |
|                            |                                  | m³/hr | 384 – 595      |
|                            | Outdoor                          | CFM   | 385 – 639      |
|                            |                                  | m³/hr | 654 – 1084     |

| Electric Specifications            |               |
|------------------------------------|---------------|
| Power Supply (V/Ph/Hz)             | 230V/1Ph/60Hz |
| Voltage Range                      | 180-253       |
| Running Amps Cooling               | 4.1           |
| Running Amps Heating               | 5.0           |
| MCA                                | 19            |
| Maximum Overcurrent Protection (A) | 20            |
| Max Power Input (amps) Cooling     | 9.5           |
| Max Power Input (amps) Heating     | 17.3          |

| 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    |

9.5 115V Heat pump only - High Performance

AIO™ CEILING SUSPENDED WITH ERV OPTION - 115V - NO ELECTRIC HEAT STRIP R32 - NO ERV -SUBMITTAL (ACP10N3H1)

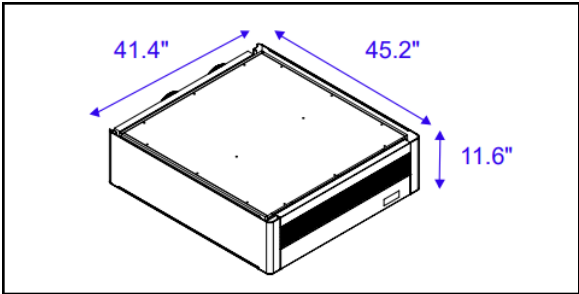
|              |              |                |
|--------------|--------------|----------------|
| Job          | Reference    | Construction   |
| Location     | Approval     | Quote Number   |
| Engineer     | Date         | Drawing Number |
| Submitted To | Submitted By | P.O. Number    |

General Features

- BLDC inverter compressor
  - ECM fans
  - MERV 13 filters on fresh air
  - R32 Refrigerant
  - Auto restart
- Intelligent defrost
  - No outdoor unit
  - Onboard touch controller
  - Washable filters
  - 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 | 15,000 - 3,100 |  |
|                            | Rated capacity (95°F [35°C])     |       | 7,700          |  |
|                            | Efficiency                       | EER2  | 10.55          |  |
| Heating                    | Min-Max                          | BTU/H | 14,000 - 3,500 |  |
|                            | Rated capacity (47°F [8.3°C])    |       | 8,600          |  |
|                            | Rated capacity (5°F [-15°C])     |       | 6,200          |  |
|                            | Efficiency                       | COP   | 3.64           |  |
| Sound                      | Indoor: Low-High at 1 m distance | db(A) | 37 - 48        |  |
|                            | Indoor: Low-High at 3 m distance |       | 29 - 40        |  |
|                            | Outdoor sound range              |       | 28 - 55        |  |
| Moisture removal           |                                  | Pts/h | 1.8            |  |
|                            |                                  | L/hr  | 0.9            |  |
| Airflow                    | Indoor                           | CFM   | 226 - 350      |  |
|                            |                                  | m³/hr | 384 - 595      |  |
|                            | 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               | 8.2           |
| Running Amps Heating               | 10.0          |
| MCA                                | 25            |
| Maximum Overcurrent Protection (A) | 35            |
| Max Power Input (amps) Cooling     | 20.9          |
| Max Power Input (amps) Heating     | 10.0          |

| 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    |

9.6 115V Heat pump + elec heat – High Performance

AIO™ CEILING SUSPENDED WITH ERV OPTION – 115V – 900W ELECTRIC HEAT – NO ERV – R32 – SUBMITTAL (ACE10N3H1)

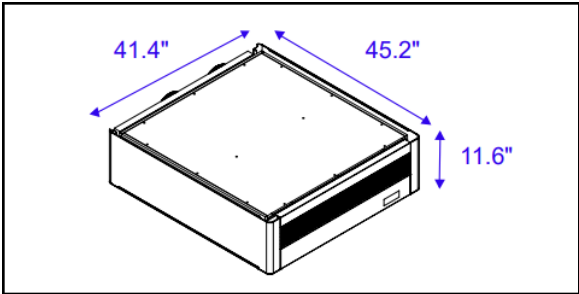
|              |              |                |
|--------------|--------------|----------------|
| Job          | Reference    | Construction   |
| Location     | Approval     | Quote Number   |
| Engineer     | Date         | Drawing Number |
| Submitted To | Submitted By | P.O. Number    |

General Features

- BLDC inverter compressor
  - ECM fans
  - 900W Electric heat supplement
  - MERV 13 filters on fresh air
  - R32 Refrigerant
- Auto restart
  - Intelligent defrost
  - No outdoor unit
  - Onboard touch controller
  - Washable filters
  - 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 | 15,000 – 3,100 |
|                            | Rated capacity (95°F [35°C])     |       | 7,700          |
|                            | Efficiency                       | EER2  | 10.55          |
| Heating                    | Min-Max                          | BTU/H | 14,000 – 3,500 |
|                            | Rated capacity (47°F [8.3°C])    |       | 8,600          |
|                            | Rated capacity (5°F [-15°C])     |       | 6,200          |
|                            | Efficiency                       | COP   | 3.64           |
| Sound                      | Indoor: Low-High at 1 m distance | db(A) | 37 – 48        |
|                            | Indoor: Low-High at 3 m distance |       | 29 – 40        |
|                            | Outdoor sound range              |       | 28 – 55        |
| Moisture removal           |                                  | Pts/h | 1.8            |
|                            |                                  | L/hr  | 0.9            |
| Airflow                    | Indoor                           | CFM   | 226 – 350      |
|                            |                                  | m³/hr | 384 – 595      |
|                            | 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               | 8.2           |
| Running Amps Heating               | 10.0          |
| MCA                                | 33            |
| Maximum Overcurrent Protection (A) | 45            |
| Max Power Input (amps) Cooling     | 20.9          |
| Max Power Input (amps) Heating     | 29.1          |

| 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    |

## 9.7 230V Heat pump only - High Performance

AIO™ CEILING SUSPENDED WITH ERV OPTION - 230V - NO ELECTRIC HEAT STRIP - NO ERV - R32 -SUBMITTAL (ACP10N3H2)

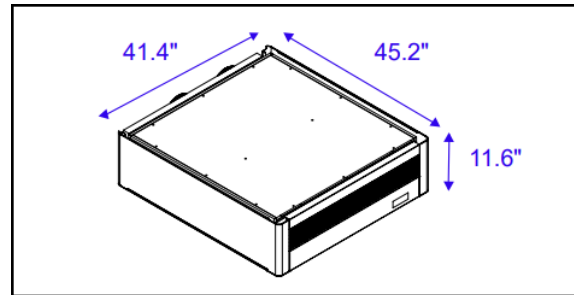
|              |              |                |
|--------------|--------------|----------------|
| Job          | Reference    | Construction   |
| Location     | Approval     | Quote Number   |
| Engineer     | Date         | Drawing Number |
| Submitted To | Submitted By | P.O. Number    |

### General Features

- BLDC inverter compressor
- ECM fans
- MERV 13 filters on fresh air
- R410A R32 Refrigerant
- Auto restart
- Intelligent defrost
- No outdoor unit
- Onboard touch controller
- Washable filters
- 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 | 15,000 - 3,100 |
|                            | Rated capacity (95°F [35°C])     |       | 7,700          |
|                            | Efficiency                       | EER2  | 10.55          |
| Heating                    | Min-Max                          | BTU/H | 14,000 - 3,500 |
|                            | Rated capacity (47°F [8.3°C])    |       | 8,600          |
|                            | Rated capacity (5°F [-15°C])     |       | 6,200          |
|                            | Efficiency                       | COP   | 3.64           |
| Sound                      | Indoor: Low-High at 1 m distance | db(A) | 37 - 48        |
|                            | Indoor: Low-High at 3 m distance |       | 29 - 40        |
|                            | Outdoor sound range              |       | 28 - 55        |
| Moisture removal           |                                  | Pts/h | 1.8            |
|                            |                                  | L/hr  | 0.9            |
| Airflow                    | Indoor                           | CFM   | 226 - 350      |
|                            |                                  | m³/hr | 384 - 595      |
|                            | 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               | 4.1           |
| Running Amps Heating               | 5.0           |
| MCA                                | 11            |
| Maximum Overcurrent Protection (A) | 15            |
| Max Power Input (amps) Cooling     | 9.5           |
| Max Power Input (amps) Heating     | 9.5           |

| 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    |

9.8 230V Heat pump + elec heat – High Performance

AIO™ CEILING SUSPENDED WITH ERV OPTION – 230V + 1800W ELECTRIC HEAT – NO ERV – R32 –SUBMITTAL (ACK10N3H2)

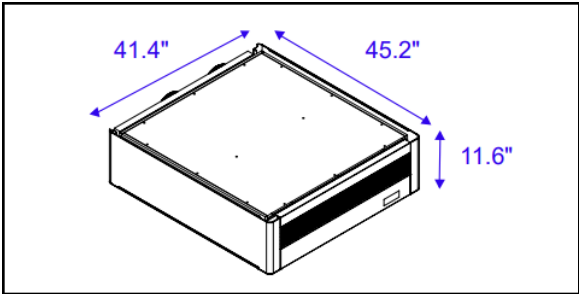
|              |              |                |
|--------------|--------------|----------------|
| Job          | Reference    | Construction   |
| Location     | Approval     | Quote Number   |
| Engineer     | Date         | Drawing Number |
| Submitted To | Submitted By | P.O. Number    |

General Features

- BLDC inverter compressor
  - ECM fans
  - Field configured 900W or 1,800W Electric heat supplement
  - MERV 13 filters on fresh air
  - R32 Refrigerant
- Auto restart
  - Intelligent defrost
  - No outdoor unit
  - Onboard touch controller
  - Washable filters
  - 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 | 15,000 – 3,100 |
|                            | Rated capacity (95°F [35°C])     |       | 7,700          |
|                            | Efficiency                       | EER2  | 10.55          |
| Heating                    | Min-Max                          | BTU/H | 14,000 – 3,500 |
|                            | Rated capacity (47°F [8.3°C])    |       | 8,600          |
|                            | Rated capacity (5°F [-15°C])     |       | 6,200          |
|                            | Efficiency                       | COP   | 3.64           |
| Sound                      | Indoor: Low-High at 1 m distance | db(A) | 37 – 48        |
|                            | Indoor: Low-High at 3 m distance |       | 29 – 40        |
|                            | Outdoor sound range              |       | 28 – 55        |
| Moisture removal           |                                  | Pts/h | 1.8            |
|                            |                                  | L/hr  | 0.9            |
| Airflow                    | Indoor                           | CFM   | 226 – 350      |
|                            |                                  | m³/hr | 384 – 595      |
|                            | Outdoor                          | CFM   | 385 – 639      |
|                            |                                  | m³/hr | 654 – 1084     |

| Electric Specifications            |               |
|------------------------------------|---------------|
| Power Supply (V/Ph/Hz)             | 230V/1Ph/60Hz |
| Voltage Range                      | 180-253       |
| Running Amps Cooling               | 4.1           |
| Running Amps Heating               | 5.0           |
| MCA                                | 19            |
| Maximum Overcurrent Protection (A) | 20            |
| Max Power Input (amps) Cooling     | 9.5           |
| Max Power Input (amps) Heating     | 17.3          |

| 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    |

9.9 115V Heat pump only - Energy Star Compliant

AIO™ CEILING SUSPENDED WITH ERV OPTION - 115V - + ERV - NO ELECTRIC HEAT STRIP R32 -SUBMITTAL (ACP09R3HI)

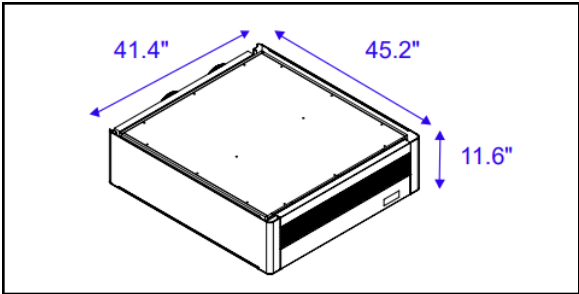
|              |              |                |
|--------------|--------------|----------------|
| Job          | Reference    | Construction   |
| Location     | Approval     | Quote Number   |
| Engineer     | Date         | Drawing Number |
| Submitted To | Submitted By | P.O. Number    |

General Features

- BLDC inverter compressor
  - ECM fans
  - Integrated ERV
  - MERV 13 filters on fresh air
  - R32 Refrigerant
  - Auto restart
- Intelligent defrost
  - No outdoor unit
  - Onboard touch controller
  - Washable filters
  - 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 | 15,000 - 3,100 |
|                            | Rated capacity (95°F [35°C])     |       | 6,100          |
|                            | Efficiency                       | EER2  | 11.56          |
| Heating                    | Min-Max                          | BTU/H | 14,000 - 3,500 |
|                            | Rated capacity (47°F [8.3°C])    |       | 8,200          |
|                            | Rated capacity (5°F [-15°C])     |       | 5,900          |
|                            | Efficiency                       | COP   | 3.76           |
| Sound                      | Indoor: Low-High at 1 m distance | db(A) | 37 - 48        |
|                            | Indoor: Low-High at 3 m distance |       | 29 - 40        |
|                            | Outdoor sound range              |       | 28 - 55        |
| Moisture removal           |                                  | Pts/h | 1.8            |
|                            |                                  | L/hr  | 0.9            |
| Airflow                    | Indoor                           | CFM   | 226 - 350      |
|                            |                                  | m³/hr | 384 - 595      |
|                            | 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               | 8.2           |
| Running Amps Heating               | 10.0          |
| MCA                                | 25            |
| Maximum Overcurrent Protection (A) | 35            |
| Max Power Input (amps) Cooling     | 20.9          |
| Max Power Input (amps) Heating     | 20.9          |

| 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    |

9.10 115V Heat pump + elec heat - Energy Star Compliant

AIO™ CEILING SUSPENDED WITH ERV OPTION - 115V - 900W ELECTRIC HEAT - R32 -+ ERV - SUBMITTAL (ACE09R3H1)

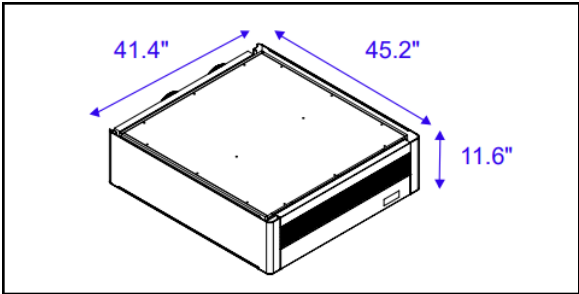
|              |              |                |
|--------------|--------------|----------------|
| Job          | Reference    | Construction   |
| Location     | Approval     | Quote Number   |
| Engineer     | Date         | Drawing Number |
| Submitted To | Submitted By | P.O. Number    |

General Features

- BLDC inverter compressor
  - ECM fans
  - 900W Electric heat supplement
  - Integrated ERV
  - MERV 13 filters on fresh air
  - R32 Refrigerant
- Auto restart
  - Intelligent defrost
  - No outdoor unit
  - Onboard touch controller
  - Washable filters
  - 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 | 15,000 - 3,100 |
|                            | Rated capacity (95°F [35°C])     |       | 6,100          |
|                            | Efficiency                       | EER2  | 11.56          |
| Heating                    | Min-Max                          | BTU/H | 14,000 - 3,500 |
|                            | Rated capacity (47°F [8.3°C])    |       | 8,200          |
|                            | Rated capacity (5°F [-15°C])     |       | 5,900          |
|                            | Efficiency                       | COP   | 3.76           |
| Sound                      | Indoor: Low-High at 1 m distance | db(A) | 37 - 48        |
|                            | Indoor: Low-High at 3 m distance |       | 29 - 40        |
|                            | Outdoor sound range              |       | 28 - 55        |
| Moisture removal           |                                  | Pts/h | 1.8            |
|                            |                                  | L/hr  | 0.9            |
| Airflow                    | Indoor                           | CFM   | 226 - 350      |
|                            |                                  | m³/hr | 384 - 595      |
|                            | 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               | 8.2           |
| Running Amps Heating               | 10.0          |
| MCA                                | 33            |
| Maximum Overcurrent Protection (A) | 45            |
| Max Power Input (amps) Cooling     | 20.9          |
| Max Power Input (amps) Heating     | 29.1          |

| 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    |

9.11 230V Heat pump only – Energy Star Compliant

AIO™ CEILING SUSPENDED WITH ERV OPTION – 230V – NO ELECTRIC HEAT STRIP – R32 –SUBMITTAL (ACP09R3H2)

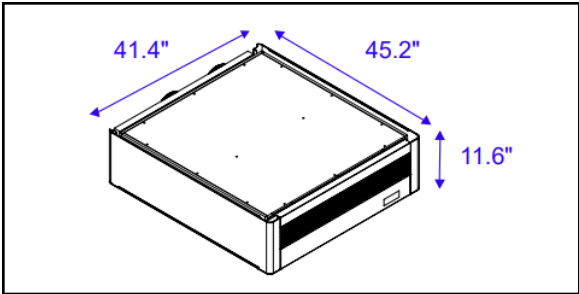
|              |              |                |
|--------------|--------------|----------------|
| Job          | Reference    | Construction   |
| Location     | Approval     | Quote Number   |
| Engineer     | Date         | Drawing Number |
| Submitted To | Submitted By | P.O. Number    |

General Features

- BLDC inverter compressor
  - ECM fans
  - Integrated ERV
  - MERV 13 filters on fresh air
  - R410A R32 Refrigerant
  - Auto restart
- Intelligent defrost
  - No outdoor unit
  - Onboard touch controller
  - Washable filters
  - 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 | 15,000 – 3,100 |  |
|                            | Rated capacity (95°F [35°C])     |       | 6,100          |  |
|                            | Efficiency                       | EER2  | 11.56          |  |
| Heating                    | Min-Max                          | BTU/H | 14,000 – 3,500 |  |
|                            | Rated capacity (47°F [8.3°C])    |       | 8,200          |  |
|                            | Rated capacity (5°F [-15°C])     |       | 5,900          |  |
|                            | Efficiency                       | COP   | 3.76           |  |
| Sound                      | Indoor: Low-High at 1 m distance | db(A) | 37 – 48        |  |
|                            | Indoor: Low-High at 3 m distance |       | 29 – 40        |  |
|                            | Outdoor sound range              |       | 28 – 55        |  |
| Moisture removal           |                                  | Pts/h | 1.8            |  |
|                            |                                  | L/hr  | 0.9            |  |
| Airflow                    | Indoor                           | CFM   | 226 – 350      |  |
|                            |                                  | m³/hr | 384 – 595      |  |
|                            | 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               | 4.1           |
| Running Amps Heating               | 5.0           |
| MCA                                | 11            |
| Maximum Overcurrent Protection (A) | 15            |
| Max Power Input (amps) Cooling     | 9.5           |
| Max Power Input (amps) Heating     | 9.5           |

| 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    |

## 9.12 230V Heat pump + elec heat - Energy Star Compliant

AIO™ CEILING SUSPENDED WITH ERV OPTION - 230V +  
1800W ELECTRIC HEAT + ERV - R32 -SUBMITTAL  
(ACK09R3H2)

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

### General Features

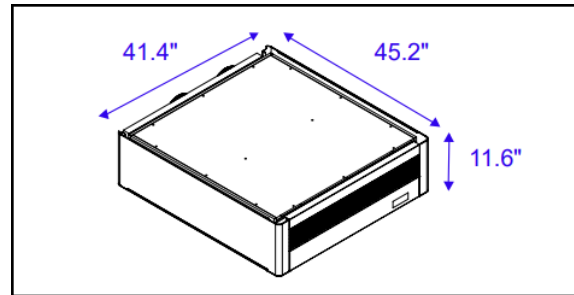
- BLDC inverter compressor
- ECM fans
- Field configured 900W or 1,800W Electric heat supplement
- Integrated ERV
- MERV 13 filters on fresh air
- R32 Refrigerant
- Auto restart
- Intelligent defrost
- No outdoor unit
- Onboard touch controller
- Washable filters
- 4 selectable fan speeds + Auto
- 10-Year 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 | 15,000 - 3,100 |  |
|                            | Rated capacity (95°F [35°C])     |       | 6,100          |  |
|                            | Efficiency                       | EER2  | 11.56          |  |
| Heating                    | Min-Max                          | BTU/H | 14,000 - 3,500 |  |
|                            | Rated capacity (47°F [8.3°C])    |       | 8,200          |  |
|                            | Rated capacity (5°F [-15°C])     |       | 5,900          |  |
|                            | Efficiency                       | COP   | 3.76           |  |
| Sound                      | Indoor: Low-High at 1 m distance | db(A) | 37 - 48        |  |
|                            | Indoor: Low-High at 3 m distance |       | 29 - 40        |  |
|                            | Outdoor sound range              |       | 28 - 55        |  |
| Moisture removal           |                                  | Pts/h | 1.8            |  |
|                            |                                  | L/hr  | 0.9            |  |
| Airflow                    | Indoor                           | CFM   | 226 - 350      |  |
|                            |                                  | m³/hr | 384 - 595      |  |
|                            | Outdoor                          | CFM   | 385 - 639      |  |
|                            |                                  | m³/hr | 654 - 1084     |  |

| Electric Specifications            |               |
|------------------------------------|---------------|
| Power Supply (V/Ph/Hz)             | 230V/1Ph/60Hz |
| Voltage Range                      | 180-253       |
| Running Amps Cooling               | 4.1           |
| Running Amps Heating               | 5.0           |
| MCA                                | 19            |
| Maximum Overcurrent Protection (A) | 20            |
| Max Power Input (amps) Cooling     | 9.5           |
| Max Power Input (amps) Heating     | 17.3          |

| 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    |

9.13 115V Heat pump only – Energy Star Compliant

AIO™ CEILING SUSPENDED WITH ERV OPTION – 115V – NO ERV – NO ELECTRIC HEAT STRIP R32 –SUBMITTAL (ACP09N3HI)

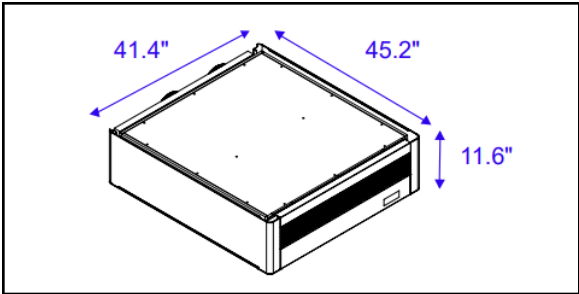
|              |              |                |
|--------------|--------------|----------------|
| Job          | Reference    | Construction   |
| Location     | Approval     | Quote Number   |
| Engineer     | Date         | Drawing Number |
| Submitted To | Submitted By | P.O. Number    |

General Features

- BLDC inverter compressor
  - ECM fans
  - MERV 13 filters on fresh air
  - R32 Refrigerant
  - Auto restart
- Intelligent defrost
  - No outdoor unit
  - Onboard touch controller
  - Washable filters
  - 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 | 15,000 – 3,100 |  |
|                            | Rated capacity (95°F [35°C])     |       | 6,100          |  |
|                            | Efficiency                       | EER2  | 11.56          |  |
| Heating                    | Min-Max                          | BTU/H | 14,000 – 3,500 |  |
|                            | Rated capacity (47°F [8.3°C])    |       | 8,200          |  |
|                            | Rated capacity (5°F [-15°C])     |       | 5,900          |  |
|                            | Efficiency                       | COP   | 3.76           |  |
| Sound                      | Indoor: Low-High at 1 m distance | db(A) | 37 – 48        |  |
|                            | Indoor: Low-High at 3 m distance |       | 29 – 40        |  |
|                            | Outdoor sound range              |       | 28 – 55        |  |
| Moisture removal           |                                  | Pts/h | 1.8            |  |
|                            |                                  | L/hr  | 0.9            |  |
| Airflow                    | Indoor                           | CFM   | 226 – 350      |  |
|                            |                                  | m³/hr | 384 – 595      |  |
|                            | 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               | 8.2           |
| Running Amps Heating               | 10.0          |
| MCA                                | 25            |
| Maximum Overcurrent Protection (A) | 35            |
| Max Power Input (amps) Cooling     | 20.9          |
| Max Power Input (amps) Heating     | 20.9          |

| 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    |

## 9.14 115V Heat pump + elec heat - Energy Star Compliant

AIO™ CEILING SUSPENDED WITH ERV OPTION - 115V -  
900W ELECTRIC HEAT - NO ERV - R32 -+ ERV - SUBMITTAL  
(ACE09N3H1)

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

### General Features

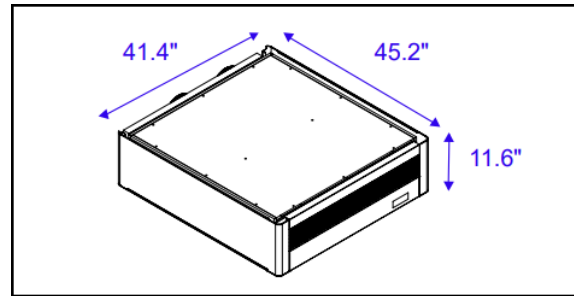
- BLDC inverter compressor
- ECM fans
- 900W Electric heat supplement
- MERV 13 filters on fresh air
- R32 Refrigerant
- Auto restart
- Intelligent defrost
- No outdoor unit
- Onboard touch controller
- Washable filters
- 4 selectable fan speeds + Auto
- 10-Year limited warranty (after certification)
- 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 | 15,000 - 3,100 |
|                            | Rated capacity (95°F [35°C])     |       | 6,100          |
|                            | Efficiency                       | EER2  | 11.56          |
| Heating                    | Min-Max                          | BTU/H | 14,000 - 3,500 |
|                            | Rated capacity (47°F [8.3°C])    |       | 8,200          |
|                            | Rated capacity (5°F [-15°C])     |       | 5,900          |
|                            | Efficiency                       | COP   | 3.76           |
| Sound                      | Indoor: Low-High at 1 m distance | db(A) | 37 - 48        |
|                            | Indoor: Low-High at 3 m distance |       | 29 - 40        |
|                            | Outdoor sound range              |       | 28 - 55        |
| Moisture removal           |                                  | Pts/h | 1.8            |
|                            |                                  | L/hr  | 0.9            |
| Airflow                    | Indoor                           | CFM   | 226 - 350      |
|                            |                                  | m³/hr | 384 - 595      |
|                            | 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               | 8.2           |
| Running Amps Heating               | 10.0          |
| MCA                                | 33            |
| Maximum Overcurrent Protection (A) | 45            |
| Max Power Input (amps) Cooling     | 20.9          |
| Max Power Input (amps) Heating     | 29.1          |

| 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    |

9.15 230V Heat pump only - Energy Star Compliant

AIO™ CEILING SUSPENDED WITH ERV OPTION - 230V - NO ERV - NO ELECTRIC HEAT STRIP - R32 -SUBMITTAL (ACP09N3H2)

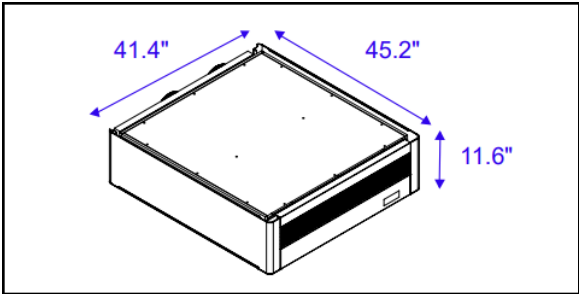
|              |              |                |
|--------------|--------------|----------------|
| Job          | Reference    | Construction   |
| Location     | Approval     | Quote Number   |
| Engineer     | Date         | Drawing Number |
| Submitted To | Submitted By | P.O. Number    |

General Features

- BLDC inverter compressor
  - ECM fans
  - Integrated ERV
  - MERV 13 filters on fresh air
  - R410A R32 Refrigerant
  - Auto restart
- Intelligent defrost
  - No outdoor unit
  - Onboard touch controller
  - Washable filters
  - 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 | 15,000 - 3,100 |  |
|                            | Rated capacity (95°F [35°C])     |       | 6,100          |  |
|                            | Efficiency                       | EER2  | 11.56          |  |
| Heating                    | Min-Max                          | BTU/H | 14,000 - 3,500 |  |
|                            | Rated capacity (47°F [8.3°C])    |       | 8,200          |  |
|                            | Rated capacity (5°F [-15°C])     |       | 5,900          |  |
|                            | Efficiency                       | COP   | 3.76           |  |
| Sound                      | Indoor: Low-High at 1 m distance | db(A) | 37 - 48        |  |
|                            | Indoor: Low-High at 3 m distance |       | 29 - 40        |  |
|                            | Outdoor sound range              |       | 28 - 55        |  |
| Moisture removal           |                                  | Pts/h | 1.8            |  |
|                            |                                  | L/hr  | 0.9            |  |
| Airflow                    | Indoor                           | CFM   | 226 - 350      |  |
|                            |                                  | m³/hr | 384 - 595      |  |
|                            | 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               | 4.1           |
| Running Amps Heating               | 5.0           |
| MCA                                | 11            |
| Maximum Overcurrent Protection (A) | 15            |
| Max Power Input (amps) Cooling     | 9.5           |
| Max Power Input (amps) Heating     | 9.5           |

| 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    |

9.16 230V Heat pump + elec heat - Energy Star Compliant

AIO™ CEILING SUSPENDED WITH ERV OPTION - 230V + 1800W ELECTRIC HEAT - NO ERV - R32 -SUBMITTAL (ACK09N3H2)

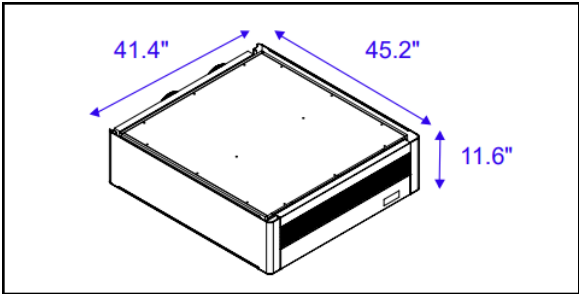
|              |              |                |
|--------------|--------------|----------------|
| Job          | Reference    | Construction   |
| Location     | Approval     | Quote Number   |
| Engineer     | Date         | Drawing Number |
| Submitted To | Submitted By | P.O. Number    |

General Features

- BLDC inverter compressor
  - ECM fans
  - Field configured 900W or 1,800W Electric heat supplement
  - Integrated ERV
  - MERV 13 filters on fresh air
  - R32 Refrigerant
- Auto restart
  - Intelligent defrost
  - No outdoor unit
  - Onboard touch controller
  - Washable filters
  - 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 | 15,000 - 3,100 |  |
|                            | Rated capacity (95°F [35°C])     |       | 6,100          |  |
|                            | Efficiency                       | EER2  | 11.56          |  |
| Heating                    | Min-Max                          | BTU/H | 14,000 - 3,500 |  |
|                            | Rated capacity (47°F [8.3°C])    |       | 8,200          |  |
|                            | Rated capacity (5°F [-15°C])     |       | 5,900          |  |
|                            | Efficiency                       | COP   | 3.76           |  |
| Sound                      | Indoor: Low-High at 1 m distance | db(A) | 37 - 48        |  |
|                            | Indoor: Low-High at 3 m distance |       | 29 - 40        |  |
|                            | Outdoor sound range              |       | 28 - 55        |  |
| Moisture removal           |                                  | Pts/h | 1.8            |  |
|                            |                                  | L/hr  | 0.9            |  |
| Airflow                    | Indoor                           | CFM   | 226 - 350      |  |
|                            |                                  | m³/hr | 384 - 595      |  |
|                            | Outdoor                          | CFM   | 385 - 639      |  |
|                            |                                  | m³/hr | 654 - 1084     |  |

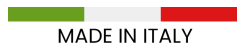
| Electric Specifications            |               |
|------------------------------------|---------------|
| Power Supply (V/Ph/Hz)             | 230V/1Ph/60Hz |
| Voltage Range                      | 180-253       |
| Running Amps Cooling               | 4.1           |
| Running Amps Heating               | 5.0           |
| MCA                                | 19            |
| Maximum Overcurrent Protection (A) | 20            |
| Max Power Input (amps) Cooling     | 9.5           |
| Max Power Input (amps) Heating     | 17.3          |

| 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    |



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](https://innova.co) | **USA:** 216-710-1000 **Canada:** 416-739-1000



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Revised August 12, 2026

AIO™ Ceiling Suspended (with ERV option)

**Product Data Sheet**