

AIO™ Ceiling Ducted with ERV (Gen 3)

Product Data Sheet



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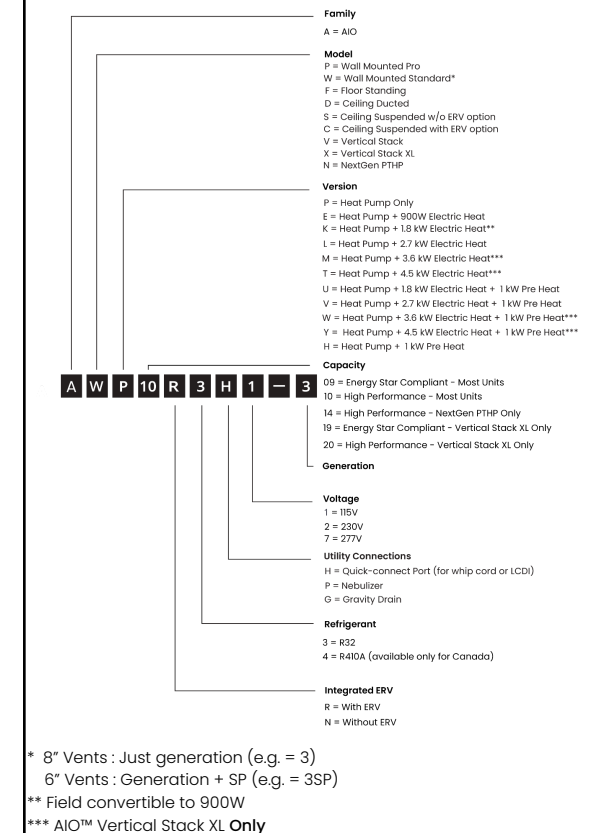
ETL Listed. Control Number: 5032306. Conforms to: UL 60335-2-40:2022 Ed.4 | CSA C22.2#60335-2-40:2022 Ed.4 | UL 60335-1:2016 Ed.6 | CSA C22.2#60335-1:2016 Ed.2

MODEL NUMBER NOMENCLATURE

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

Note: Ceiling Ducted - Mirror Version units use the suffix "-MR" in place of the generation code (e.g., "-3" or "-3SP"), indicating a mirrored (left/right reversed) unit configuration.

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 Ducted with ERV unit.

Unit orientation

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

Mirrored unit orientation

Some units are available in a mirrored configuration, identified by the suffix “-MR” in the model number.

Mirror Version units are physically identical to standard units but with left and right orientations reversed.

Unless otherwise stated, all references to left and right in this document apply to the standard orientation.

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 DUCTED UNIT OVERVIEW

An AIO™ Ceiling Ducted unit can be discreetly installed above a ceiling and is ideal for single or multi-room applications. The return can be from the sides or the bottom for maximum flexibility. With up to 0.6” (15.2 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. A bathroom exhaust can be connected to the dedicated stale air exhaust.

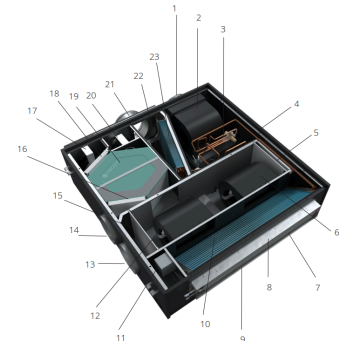
Available in standard and mirrored configurations (suffix -MR), with identical performance and mirrored left/right layout.



Units are supplied with side returns as standard. If a bottom return is required, it must be specified at time of order and included on the approved estimate and purchase order.

2.1 Components and structure

Figure 2. What's Inside



1	Condenser + stale air exhaust vent	13	Return air vent
2	Condenser + stale air exhaust fan	14	ERV stale air supply
3	Twin rotary inverter compressor	15	Return air filter
4	Return air connection	16	MERV 13 filter
5	Return air filter	17	Fresh air ECM supply fan
6	ECM supply fan	18	MERV 13 filter
7	900/1800W electric heat strip	19	ERV Hybrid Recovery Core
8	Supply air connection	20	Stale air ECM exhaust fan
9	Touch controller	21	Condenser + fresh air intake
10	High-efficiency indoor coil	22	Condensate drain
11	Controllers Connection Terminal	23	High efficiency outdoor coil
12	ECM supply fan		



- Component positions are mirrored in AIO™ Ceiling Ducted - Mirror Version units.
- The components shown are for the unit without a preheater. For views of the unit with a preheater, see Sections [7.3](#) and [7.4](#).

2.2 Key features

No outdoor unit

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

Twin rotary BLDC inverter compressor

The state-of-the-art, twin brushless DC (BLDC) inverter compressor operates efficiently, quietly, and with minimal vibration. AIO™'s Ceiling Ducted unit is ideal for any room or area that requires between 3,100 and 15,000 BTU/hr.

Integrated ERV

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

Recovery plus™

With a patent-pending innovation, AIO™ Ceiling Ducted utilizes the heat or cold remaining in the air after passing through the recovery core to lower or raise the temperature of the condenser, providing a boost in performance and efficiency.

Integrated bathroom exhaust system

The integrated stale air exhaust can be used for bathrooms and kitchens, maintaining perfect air pressure and eliminating the need for a dedicated exhaust system.

MERV 13 clean air

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

High-efficiency ECM fans with auto ESP

High-efficiency electronically commutated motor (ECM) fans enable efficient and quiet operation because the EC motor can ramp up or down as required. Automatically adjusted external static pressure ensures correct airflow.

Cold climate heat pump

The heat pump functions efficiently in temperatures as low as 5°F (-15°C) outdoors, and will continue to

operate at colder temperatures, even below -5°F (-20.6°C).

Quiet

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

Intelligent defrosting

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

Optional 1,800/2,700-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/three 900W heaters, strategically staged to optimize efficiency while minimizing the use of electric heat. Depending on the unit ordered, it can offer multiple configuration options for electric heat usage: it can be set to use no electric heat, or 900W/1,800W/2,700W of electric heat providing flexibility and energy management capabilities.

Optional 1,000-watt preheater

The optional 1,000W preheater pretreats incoming outdoor air before it enters the ERV module, helping the system recover energy more efficiently and improving overall energy performance.

Versatile on/off options

AIO™'s low-voltage connection enables connection to any Building Management System (BMS), key-card system, window sensors, fire alarms, etc. As long as a system can send a signal to the AIO™ unit via low voltage, the unit can be easily turned on or off.

Minimal clearances and compact footprint

AIO™'s compact form does not use any line sets. This means that there is no need to access the sides of the unit. Units can be mounted with as little as 2" (50 mm) clearance on the top and bottom and 3.5" (90 mm) in the front and rear. Side clearances depend on the return air configuration — see [Section 4.7](#) for details. Compact footprints take up minimal space.

Leak protection

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

Easy to service

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

Versatile controls

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

10-Year limited warranty

An industry-leading 10-year limited warranty provides peace of mind.

- Comprehensive onsite two-year parts and labor (after certification).
- 5-year parts warranty.
- 10-year parts warranty on the compressor.

See [Warranty Terms and Conditions](#) for details.

3. AIRFLOW



For Mirror Version units, all left and right airflow connections are reversed.

The AIO™ Ceiling Ducted unit is flexible in many ways. It can be fully ducted or used with minimal or no ducting. This flexibility enables AIO™ Ceiling Ducted to be placed anywhere in a dwelling, without restrictions.

• Supply air

The rectangular 3.9" x 27.9" (100 mm x 708 mm) supply air vent is ideal for a supply grille or ducting.

• Stale air exhaust

The five-inch round stale air exhaust connection can be used as part of a plenum return without any ducting or can be ducted to a bathroom or multiple locations with up to 0.5" WC (124.4 pa) external static pressure. If configuring an AIO™ Ceiling Ducted unit with a bottom return, the stale air can also be pulled from the bottom return.

• Return air – bottom option

The bottom 8.7" x 32.3" (220 mm x 820 mm) return is designed to be used with a ceiling-mounted return grille or an access panel with an integrated return grille.

• Return air – sides options

The left and right side 6" (15.2 mm) round connections can be ducted to one or more rooms. It can also be left open as a side plenum return. With two ECM fans, each with auto ESP, each connection is fully independent. Duct both, leave both open, or duct one and leave one open to a plenum.

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

• Outside air intake

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

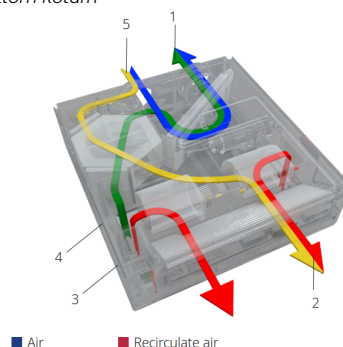
connection provides air for the condenser portion and fresh air for the inside.

• Outside air exhaust

The single 8" (203.2 mm) round outside air exhaust connection is for the condenser portion and the stale air exhaust.

3.1 Bottom Return (Special Field-Configured Option)

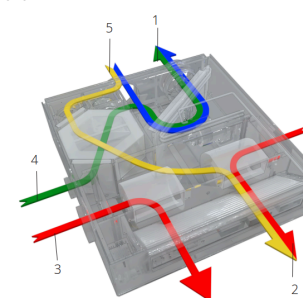
Figure 3. Bottom Return



1	Exhaust air	4	Stale air
2	Supply air	5	Fresh air
3	Return air		

3.2 Side Return (Standard Configuration)

Figure 4. Side Return



1	Exhaust air	4	Stale air
2	Supply air	5	Fresh air
3	Return air		

3.3 Fan curves

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

Figure 5. Indoor fan performance curves

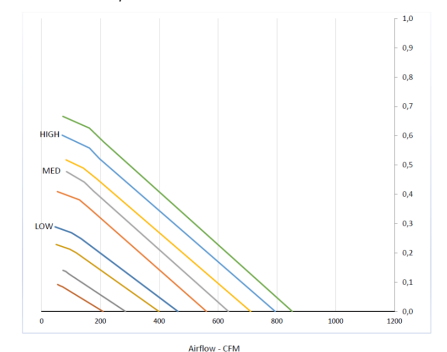


Figure 6. Outdoor fan performance curves

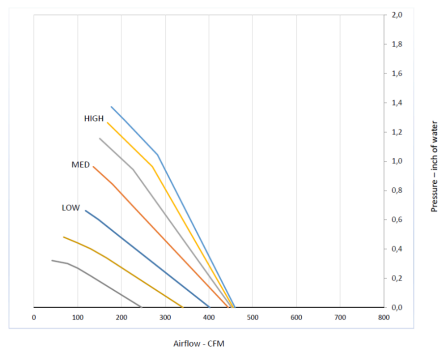
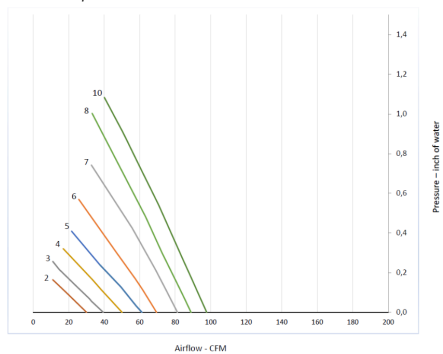


Figure 7. ERV fan performance curves



4. INSTALLATION

Figure 8.



Figure 9. Direct existing window vent



Figure 10. Direct external vent



Figure 11. Shared supply and exhaust vents



4.1 Air Balancing Requirements

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

4.2 Startup airflow commissioning

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

4.3 Low Ambient Heating Configuration Requirement

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

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

rE = Resistance heat mode

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

4.4 Ambient Temperature Protection

When installed in climates with ambient temperatures below freezing, the unit must be located in an enclosed, temperature-protected indoor space that will not fall below 5°F (-15°C).



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

4.5 Site Requirements



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

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



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



- Do not operate the unit in or near a construction or renovation site. Dust and debris can enter the unit, causing malfunctions and reduced performance.
- If the unit must be operated during construction or renovation, the air filters and accessible coil surfaces must be inspected and cleaned daily before operation.
- Failure to perform daily cleaning during construction use may result in damage and will void the warranty.

- A power supply with a voltage rating of 60 Hz, single phase, in 115V or 208/230V in accordance with the model specified.
- All responsible parties must verify that the electrical supply is properly grounded, free of excessive electrical noise, and within the specified voltage and frequency limits before energizing the unit. Failure to correct power quality issues, including voltage instability or electrical noise, may result in equipment damage and will void the warranty for affected components.
- Interior clearances are as follows:
 - Sides of unit to wall: 3.5" (90 mm)
 - Bottom and top of unit: 2" (50 mm)
- Unblocked vents on the exterior and no obstacles within 36" (915 mm).
- 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 must be installed with best practices to ensure that no water enters the wall assembly.

- The unit is intended for ducted installation. Installation without ductwork may result in airflow performance issues.
- 8" diameter ducts through the wall, which protrude 1/8" (3.2 mm) into the unit's EPDM backing to ensure a tight seal.
- The unit must be perfectly level on the horizontal axis and perfectly plumb on the vertical axis.
- The unit must be attached to the ducts tightly, with zero leakage between the external ducts and the unit.
- The wall bracket must be properly affixed to wall studs or other supporting material. Note that the wall bracket has several places that must be secured.

4.6 Louver Specifications

AIO™ Ceiling Ducted units can be vented through various custom and creative solutions. The possibilities are endless, from perforated panels to custom louvers.

There are three critical factors when selecting and sizing a solution that works with AIO™ Ceiling Ducted units.

- **Air-path separation:** When a field-supplied louver or louver assembly serves both the outdoor-air intake and exhaust, provide a continuous, airtight, insulated separator between the intake and exhaust air paths. The separator must extend through the plenum to the exterior louver to prevent exhaust air from being drawn back into the intake. Exhaust-air recirculation can cause improper operation and unit short cycling.
- **Free area:** The area on a louver/grille that is open for the air to flow through. The louver, perforated panel, or other solution must have at least the amount of free area specified in the specifications below in the plenum from the unit, so that ample air can enter and exit the condenser chamber. A more restrictive solution with a smaller free area can be utilized by enlarging the louver and plenum until the required free area is achieved.



The minimum free area required is 0.34 square feet (0.03 square meters) for the intake vent and 0.34 square feet (0.03 square meters) 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 in. WC (174.4 Pa).

- Any louver or louver assembly must meet these requirements, because exceeding these limits can cause the unit to overheat and fail. This will void the warranty.
- The following louvers are approved for AIO™ Ceiling Ducted units:
 - Sunvent: LLA/C, LLA/F, LLA/S – available through your INNOVA distributor.
 - Thermaduct: RLA8 – available through your INNOVA distributor.

4.7 Clearance Requirements

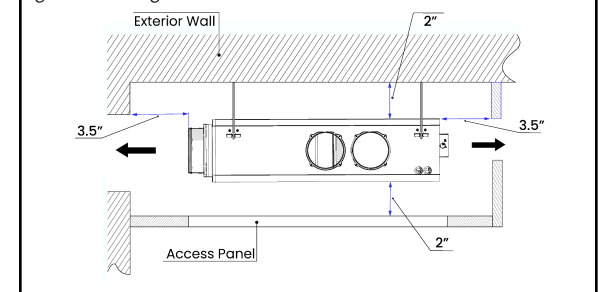
The clearances for the AIO™ Ceiling Ducted unit depend on how it is vented. Carefully read the criteria below to determine the correct clearance required.



While these are the minimum clearances required for our units to operate, a greater clearance may be required by code. Always follow the stricter requirements.

- **Ceiling**
There must be a 2" (50 mm) minimum clearance between the unit and the ceiling to minimize noise from vibrations.
- **Bottom**
There must be a minimum of 2" (50 mm) clearance between the unit and the false ceiling or access panel to minimize noise from vibrations.
- **Front (supply air side)**
The clearance required in front of the unit to drywall or other material is 3.5" (90 mm) to minimize noise from vibration, and to ensure easy access for installation and maintenance.
- **Rear (intake/exhaust side)**
There must be a 3.5" (90 mm) minimum clearance between the unit and the wall to minimize noise from vibration, and to ensure easy access for installation and maintenance. Ensure sufficient clearance to attach ductwork to the rear vents.

Figure 12. Ceiling Ducted Clearance



- **Access Panel**
There must be an access panel of at least the size of the unit plus 3.5" (90 mm) all around. The minimum size is 45.0" × 49.3" (1142 mm × 1251 mm) for the unit without a preheater and 45.0" × 55.8" (1142 mm × 1417 mm) for the unit with a preheater.

5. TECHNICAL SPECIFICATIONS

5.1. High Performance

5.1.1 Cooling

Table 1. High Performance - Cooling

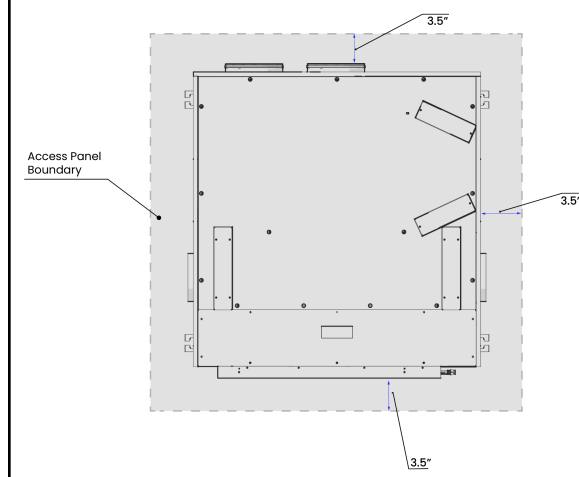
Heat Pump			95°F (35°C) (1)	105°F (40.6°C) (2)	115°F (46.1°C) (3)
Capacity	Maximum	BTU/hr	15,000	11,400	9,825
	Recommended*		9,400	8,200	7,300
	Rated		7,700	7,345	6,550
	Minimum		3,100	3,100	3,100
Input Power	Maximum	W	1,580	1,640	1,700
	Recommended*		960	950	1,040
	Rated		732	825	904
	Minimum		230	255	285
Efficiency	Maximum	EER	9.49	6.96	5.78
	Recommended*		9.79	8.63	7.00
	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.

A return grille can serve as an access panel, or an access panel with an integrated return grille can be used.

Figure 13. Access Panel



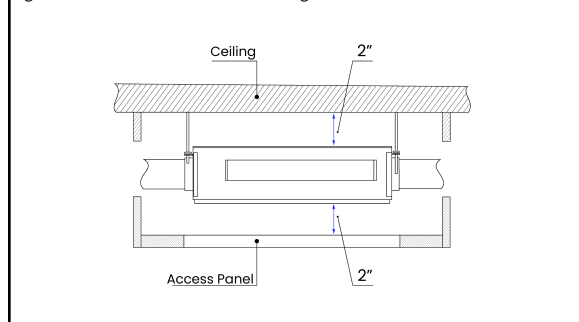
• Sides

The clearance required on the sides is dependent on how the unit is configured for return and stale exhaust air. Minimum clearance is required between the unit and the wall to minimize noise from vibrations. Ensure sufficient clearance to attach ductwork to the rear vents.

• Side ducted return configuration

The clearance required is based solely on the ductwork design. Ensure sufficient clearance to attach the ductwork to the side return.

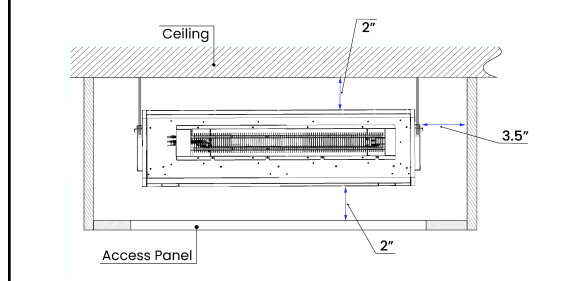
Figure 14. Side ducted return configuration



• Side non-ducted return configuration

A minimum of 3.5" (90 mm) should be free on each side to allow the air to flow into the returns, and to ensure easy access for installation and maintenance.

Figure 15. Side plenum return configuration



• Exterior

On the exterior of the building, there should be no obstacles blocking the airflow from the louver. There must be at least 36" (915 mm) of free and clear space in front of the louvers.

5.1.2 Heating – Heat pump only

Table 2. High Performance – Heating

Heat Pump			47°F (8.3°C) (1)	17°F (-8.3°C) (2)	5°F (-15°C) (3)	0°F (-17.8°C) (4)	-5°F (-20.6°C) (5)
Capacity	Maximum	BTU/hr	14,000	10,000	6,600	6,300	5,800
	Recommended*		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 Power	Maximum	W	1,420	1,460	1,700	1,600	1,650
	Recommended*		774	990	1,250	1,062	1,013
	Rated		693	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
	Recommended*		3.48	2.75	1.45	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	HSPF 2	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 (35°C) (1)	105°F (40.6°C) (2)	115°F (46.1°C) (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	8.63	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			47°F (8.3°C) (1)	17°F (-8.3°C) (2)	5°F (-15°C) (3)	0°F (-17.8°C) (4)	-5°F (-20.6°C) (5)
Capacity	Maximum	BTU/hr	14,000	10,000	6,600	6,300	5,800
	Recommended*		9,200	8,700	5,900	5,935	5,570
	Rated		8,200	7,800	5,900	5,935	5,570
	Minimum		3,500	3,300	2,800	2,500	3,300
Input Power	Maximum	W	1,420	1,460	1,700	1,600	1,650
	Recommended*		774	870	1,140	1,062	1,013
	Rated		644	760	988	1,062	1,013
	Minimum		315	420	440	430	480
Efficiency	Maximum	COP	2.89	2.01	1.13	1.14	1.04
	Recommended*		3.48	2.93	1.52	1.64	1.61
	Rated		3.73	3.01	1.75	1.64	1.61
	Minimum		3.26	2.30	1.87	1.70	2.01
	Seasonal	HSPF 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.

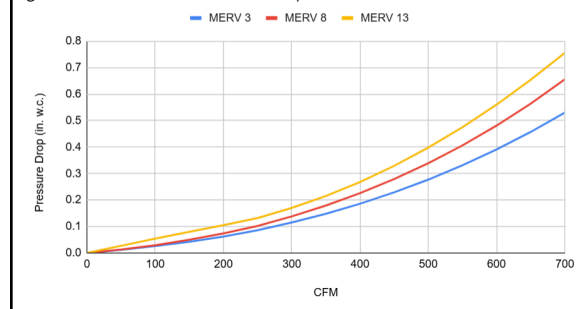
5.3. Airflow

5.3.1 Indoor

Table 5. Airflow - Indoor

Air volume		
Indoor	Type	ECM centrifugal
	CFM Range	226 - 400
	m ³ /hr	384- 680
	Available ESP	Refer to the fan curves
	Supply connection	3.9" (100 mm) H x 27.9" (708 mm) W
	Return connection	Two 6" (152 mm) round on sides or bottom 8.7" x 32.3" (220 mm x 820 mm)
	Speeds	Low, med, high, boost, auto
	Filter	MERV 3

Figure 16. MERV Filter Pressure Drop



5.3.2 Outdoor

Table 6. Airflow - outdoor

Air volume		
Outdoor	Type	ECM centrifugal
	CFM Range	385 - 638
	m ³ /hr Range	654- 1084
	Nominal CFM	400
	Nominal m ³ /hr	680
	Available ESP at Nominal	Refer to the fan curves
	Intake and Exhaust Connection	8" (203 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	38
		Level 2 - Medium	48
		Level 3 - High	49
	3 m	Level 1 - Low	30
		Level 2 - Medium	40
		Level 3 - High	41
Outdoor	-	Range	28 - 55

5.5 ERV

Table 8. ERV

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

Table 9. ERV

		40 CFM (68 m ³ /hr)	60 CFM (102 m ³ /hr)	80 CFM (136 m ³ /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)

5.6 General

5.6.1 Controls

Table 10. Controls

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

5.6.2 Modes

Table 11. Modes

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

5.6.3 Condensate

Table 12. Condensate

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

5.6.4 Compressor

Table 13. Compressor

Compressor			
Type	BLDC twin rotary inverter		
Refrigerant	For R-32 Units	Refrigerant Type	R-32
		Charge	16.93 oz. 480 g
	For R-410A Units	Refrigerant Type	R-410A
		Charge	23.97 oz. 680 g
Oil Type	Fv50s (ISO 50) Polyvinylether (PVE)		

5.6.5 Physical



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

Table 14. Physical data

Physical data			
Dimensions	Units without preheater	in	41.4 W x 45.7 D x 11.0 H
		mm	1052 W x 1161 D x 279 H
	Unit with preheater	in	41.4 W x 52.2 D x 11.0 H
		mm	1052 W x 1327 D x 279 H
Weight	Heat Pump + ERV	lb	174.2
		kg	79
	1.8 kW Electric Past Heater	lb	3.4
		kg	2
	2.7 kW Electric Past Heater	lb	6.6
		kg	3
	1 kW Electric Pre Heater	lb	11.0
		kg	5
Cabinet	Packaging	lb	11.0
		kg	5
	Finish		Black covered with dark gray EPDM
	Material		Steel

5.6.6 Insulation

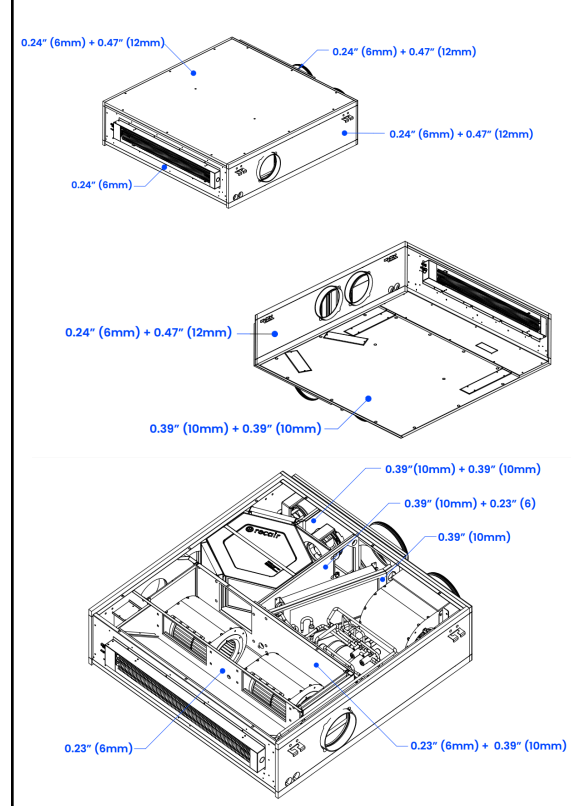
Table 15: General - Insulation

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



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

Figure 17. Insulation Thickness



5.7 Electrical

5.7.1 General

Table 16. Electrical - General

General		115V	230V
Volt range		103 - 127	180-253
Hz/phase		60 Hz / single phase	
Power input connection		Hardwire	
Power factor		0.96	
Input power (standby)	W	10.8	
Input power (off mode)		1.5	
Heat Pump Only			
Cooling +ERV (nominal)	A	8.2	4.1
Cooling - heat pump + ERV (max)		20.9	9.5
Heating - heat pump +ERV (nom.)	A	10.0	5.0
Heating-heat pump + ERV (max)		20.9	9.5
Heat Pump + 900 W Elec Heater			
Maximum	A	29.1	-
Heat Pump + 1,800 W Elec Heater			
Maximum	A	-	17.3
Heat Pump + 2,700 W Elec Heater			
Maximum	A	-	21.2
Heat Pump + 1,800 W Electric Heater + 1 kW Preheater			
Maximum	A	-	21.7
Heat Pump + 2,700 W Electric Heater + 1 kW Preheater			
Maximum	A	-	25.6

5.7.2 Motors

Table 17. Electrical - Compressor

Motors			115V	208V	230V	240V
Compressor	RLA	A	13.0	6.6	6	5.8
	LRA		13.0	6.6	6	5.8
Indoor ECM fan motor	Watts (max)	W	260	200		
	FLA	A	3.4	1.33	1.2	1.15
	Power	HP	0.125	0.10		
Outdoor ECM fan motor	Watts (max)	W	150	150		
	FLA	A	2.1	1.16	1.05	1.01
	Power	HP	0.10			
ERV ECM Fan Motor	Watts (max)	W	120	120		
	FLA	A	1.8	1	0.9	0.86
	Power	HP	1/10			

Table 18. Electrical - Circuit breakers

Circuit breakers			115V	208V	230V	240V
Heat Pump + ERV	MCA	A	25	13	11	11
	MOCP		35	15	15	15
Heat Pump + 900W Elec Heat + ERV	MCA	A	33	-	-	-
	MOCP		45	-	-	-
Heat Pump + 1800W Elec Heat + ERV	MCA	A	-	20	19	19
	MOCP		-	25	20	20
Heat Pump + 2700W Elec Heat + ERV	MCA	A	-	23	23	24
	MOCP		-	25	25	25
Heat Pump + 1800W Elec Heat + 1 kW Preheat + ERV	MCA	A	-	24	24	24
	MOCP		-	25	25	25
Heat Pump + 2700W Elec Heat + 1 kW Preheat + ERV	MCA	A	-	27	28	28
	MOCP		-	30	30	30

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

Table 19. Heater Output (W) and Heater Current (A) vs. Supply Voltage

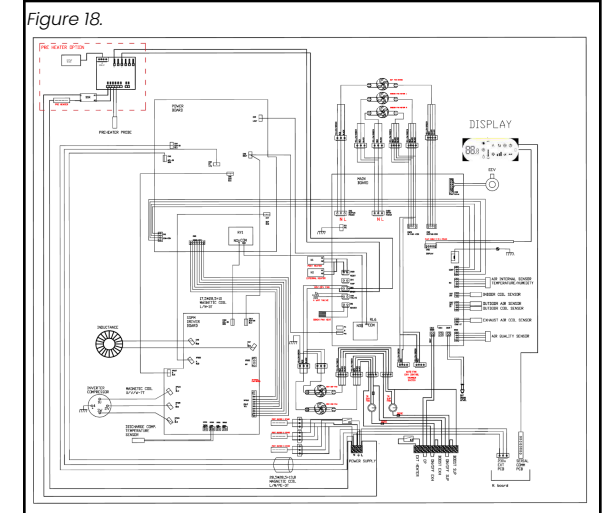
Volt/Watt	1000W	900W	1800W	2700W
115V	N/A	900W / 7.8A	N/A	N/A
208V	818W / 3.9A	736W / 3.5A	1472W / 7.1A	2200W / 10.6A
230V	1000W / 4.3A	900W / 3.9A	1800W / 7.8A	2700W / 11.7A
240V	1089W / 4.5A	980W / 4.1A	1960W / 8.2A	3000W / 12.5A

6. WIRING DIAGRAM

6.1 Manufactured before January, 2026

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

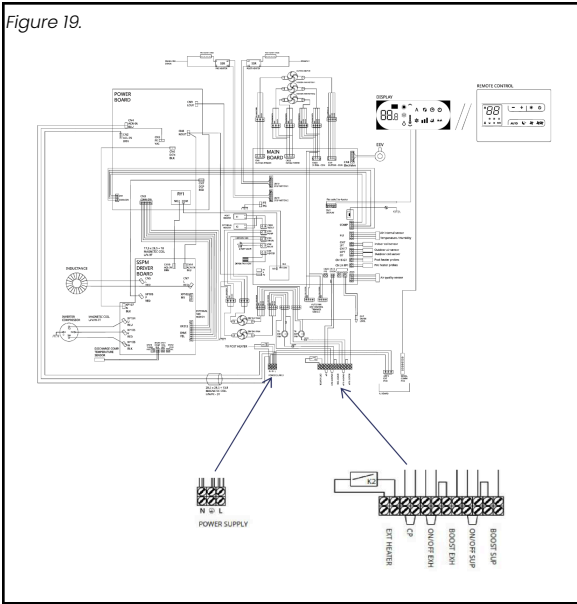
[PDF AIO Ceiling Ducted Wiring Diagram \(Pre-Jan 202...](#)



6.2 Manufactured after January, 2026

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

[PDF AIO Ceiling Ducted Wiring Diagram \(Post-Jan 20...](#)

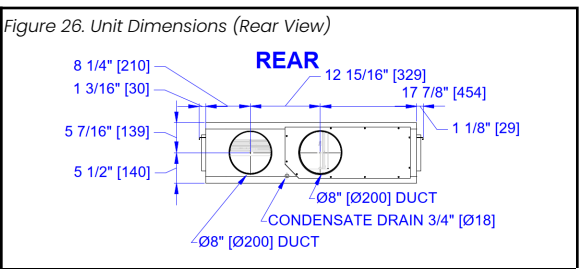
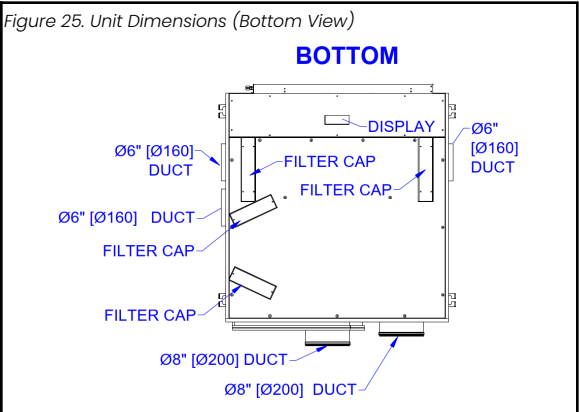
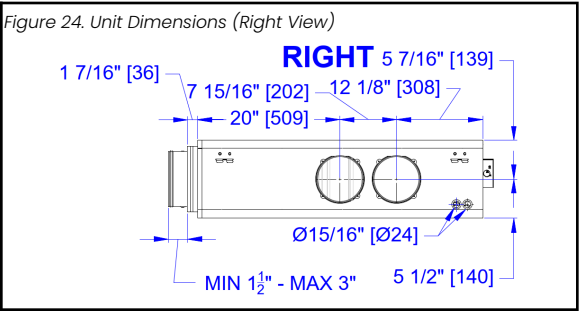
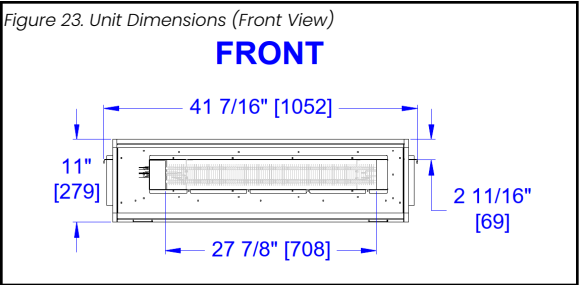
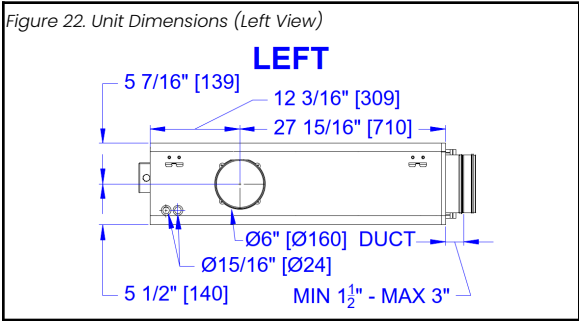
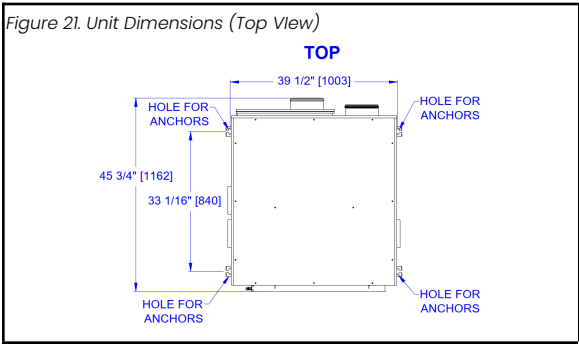
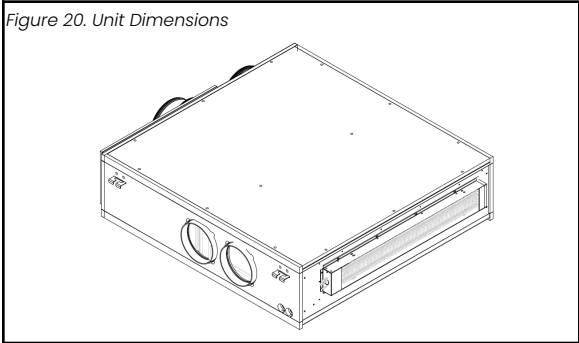


7. DIMENSIONS

7.1 Standard Configuration - Without Preheater

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

[PDF AIO Ceiling Ducted with ERV Dimensions \(V 5.0\).p...](#)



7.2 Mirrored Configuration - Without Preheater

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

[PDF AIO Ceiling Ducted \(Mirror Version Gen 3\) Dimens...](#)

Figure 27. Unit Dimensions

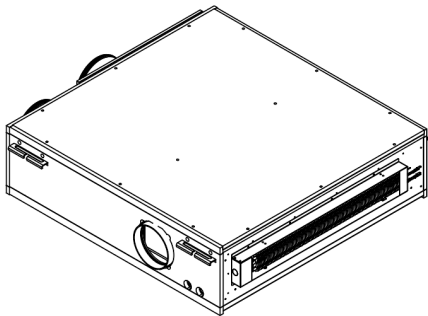


Figure 28. Unit Dimensions (Top View)

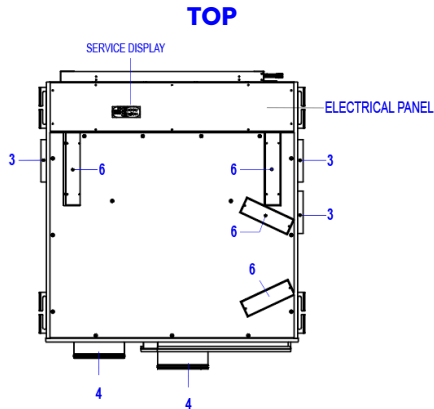


Figure 29. Unit Dimensions (Left View)

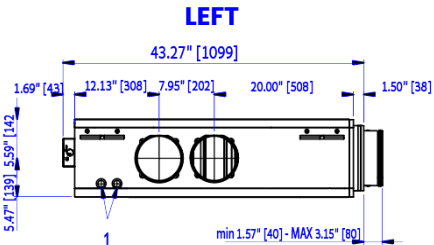


Figure 30. Unit Dimensions (Front View)

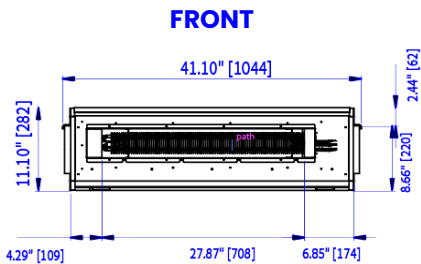


Figure 31. Unit Dimensions (Right View)

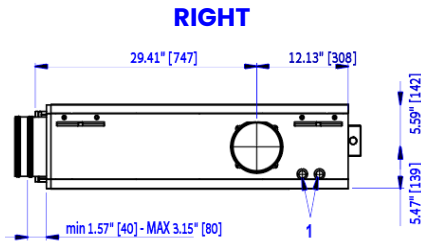


Figure 32. Unit Dimensions (Bottom View)

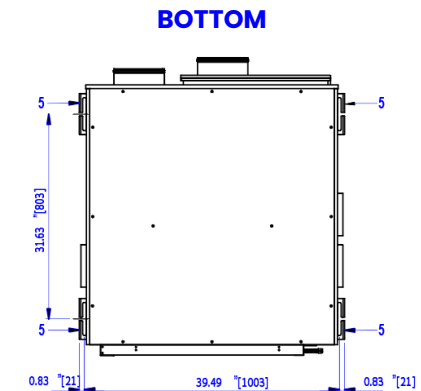
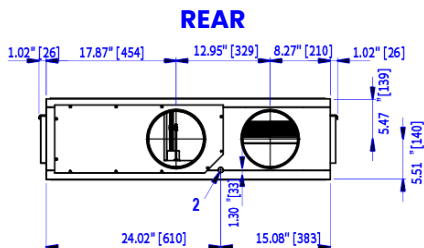


Figure 33. Unit Dimensions (Rear View)

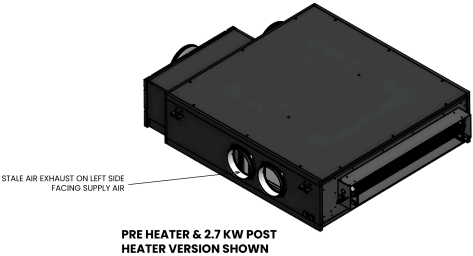


7.3 Standard Configuration - With Preheater

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

[PDF AIO Ceiling Ducted with ERV \(Gen 3\) and Preheat...](#)

Figure 34. Unit Dimensions



1	Power Supply	4	Ø7 7/8" (200) MALE DUCT
2	Condensate Drain Ø11/16"(18)	5	Hole for Anchors
3	Ø6 5/16" (160) MALE DUCT	6	Filter Cap

Figure 35. Unit Dimensions (Top View)

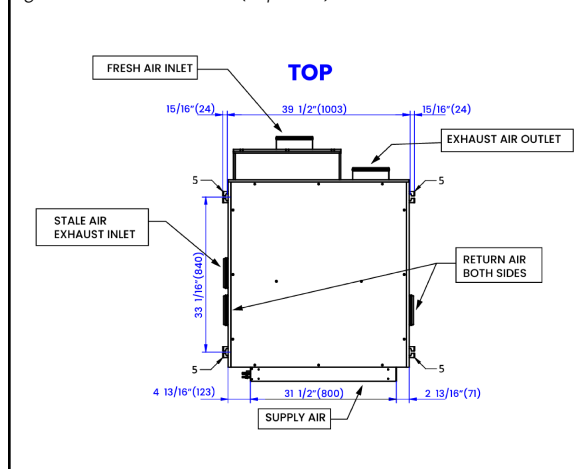


Figure 36. Unit Dimensions (Left View)

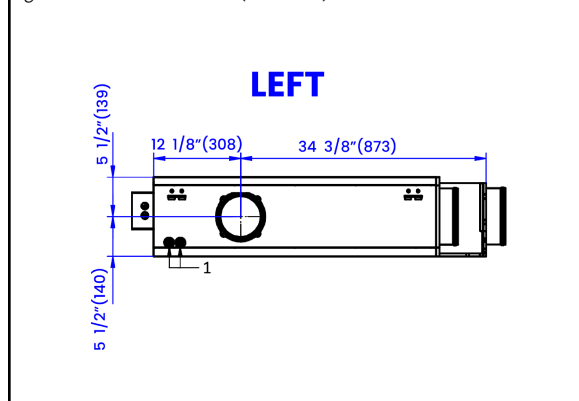


Figure 37. Unit Dimensions (Front View)

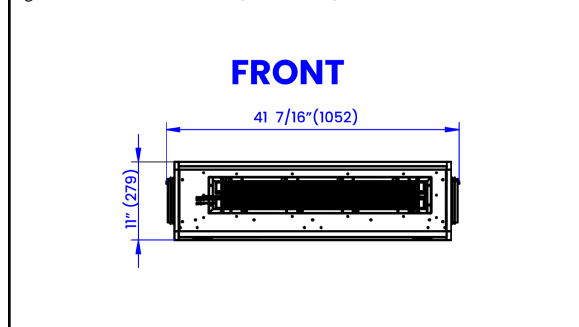


Figure 38. Unit Dimensions (Right View)

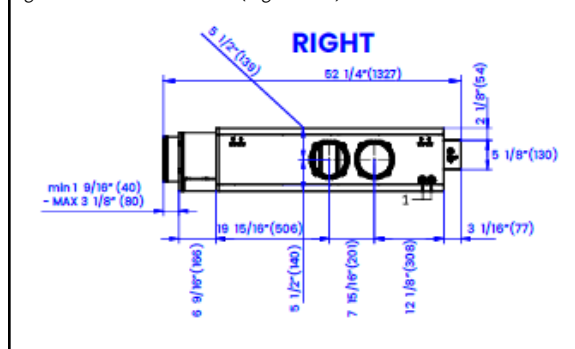


Figure 39. Unit Dimensions (Bottom View)

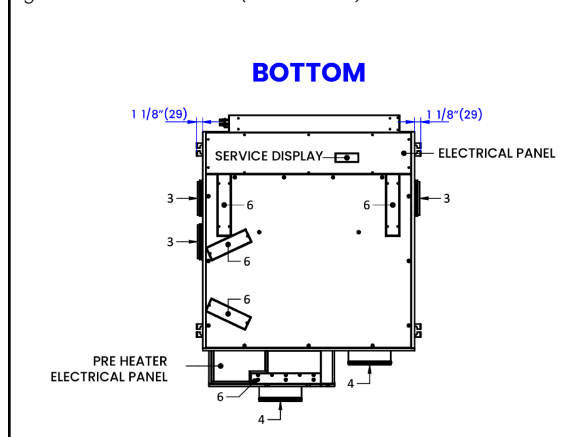
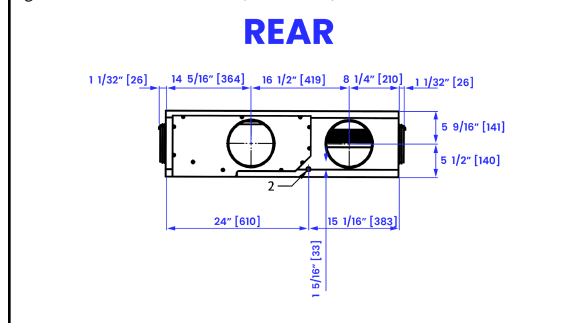


Figure 40. Unit Dimensions (Rear View)



7.4 Mirrored Configuration - With Preheater

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

[PDF AIO Ceiling Ducted with ERV and Preheater \(Gen ...](#)

Figure 41. Unit Dimensions

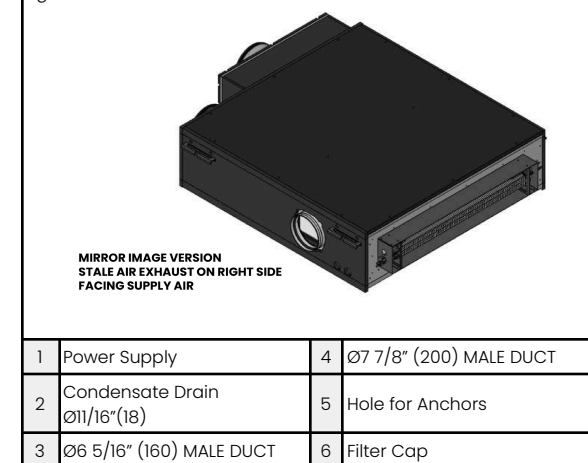


Figure 42. Unit Dimensions (Top View)

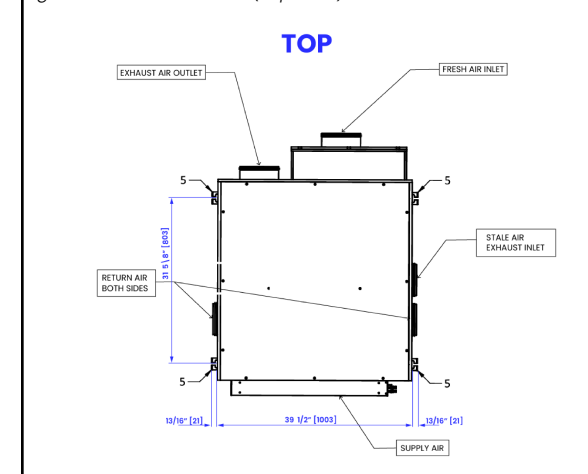


Figure 43. Unit Dimensions (Left View)

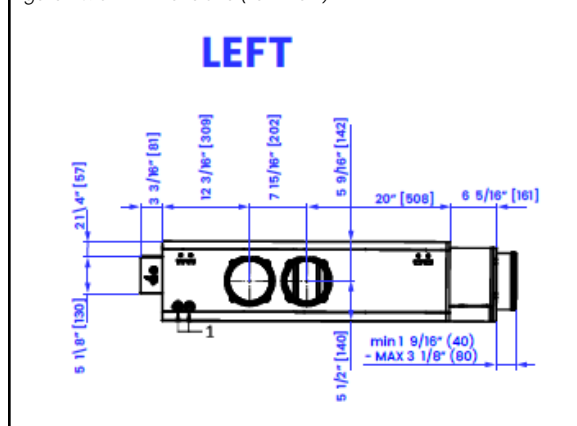


Figure 44. Unit Dimensions (Front View)

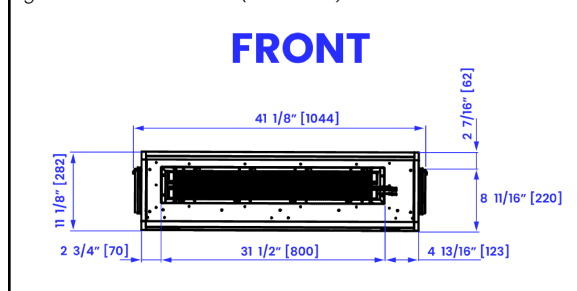


Figure 45. Unit Dimensions (Right View)

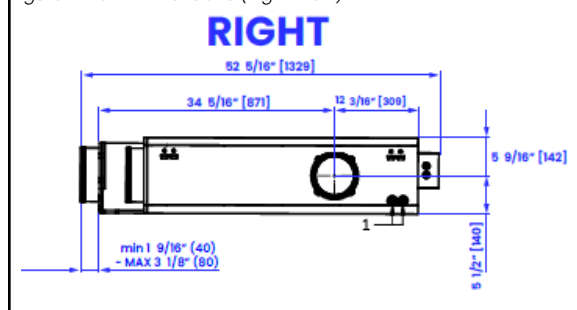


Figure 46. Unit Dimensions (Bottom View)

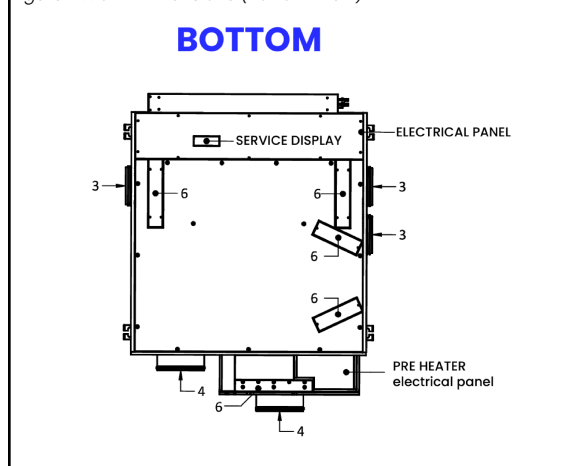
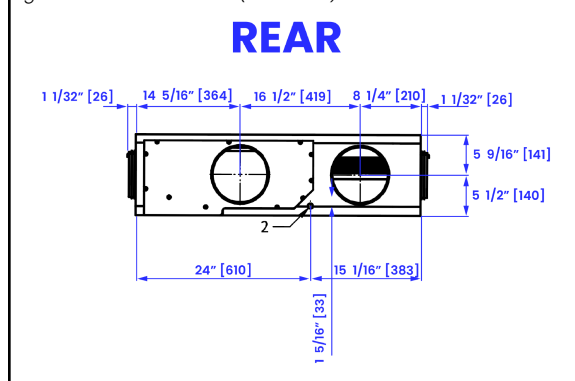


Figure 47. Unit Dimensions (Rear View)



7.5 Standard Configuration - With Bottom Return Attached

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

[PDF AIO Ceiling Ducted \(Gen 3\) with ERV and Bottom ...](#)

8. MOUNTING TEMPLATE

INNOVA provides a mounting template to facilitate the installation process.

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

 [AIO Ceiling Ducted Installation Template \(V 5.0\).p...](#)

9. WARRANTY

9.1 Basic Coverage

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

9.2 Optional Extended Coverage

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

9.3 Validation Requirements

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

For warranty service or claims, contact INNOVA Support at VIP@innova.co or [\(212\) 204-2700](tel:2122042700).

For detailed terms and conditions, click the link below:

 [AIO Warranty Terms and Conditions - 2026 - INN...](#)

10. SUBMITTALS

10.1 115V Heat Pump + ERV – High Performance

AIO™ CEILING DUCTED – 115V NO ELECTRIC HEAT – ERV – R32 – SUBMITTAL (ADP10R3HI)

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

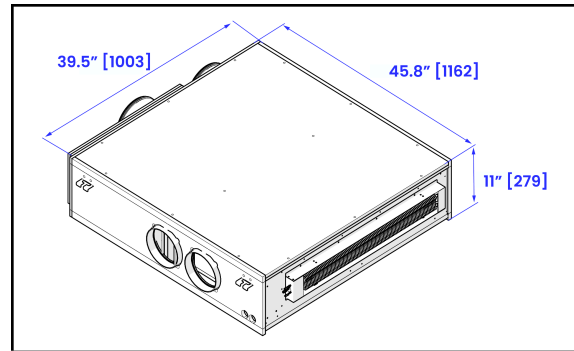
General Features

- BLDC inverter compressor
- ECM fans
- Integrated ERV
- Field configured 900W or 1,800W electric heat supplement
- Bathroom exhaust connection
- MERV 13 filters on fresh air
- R32 Refrigerant
- Auto restart
- Intelligent defrost
- No outdoor unit
- Onboard touch controller
- Washable filter
- 4 selectable fan speeds + Auto
- 10-Year limited warranty (after certification)
- Made in Italy

The installing contractor must contact INNOVA Customer Technical 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	3,100 – 15,000
	Rated capacity (95°F)		7,700
	Efficiency	EER2	10.55
Heating	Min-Max	BTU/H	3,500 – 14,000
	Rated capacity (47°F)		8,600
	Rated capacity (5°F)		6,200
	Efficiency	COP	3.64
Sound	Indoor: Low-High at 1 m distance	db(A)	38 – 49
	Indoor: Low-High at 3 m distance		30 – 41
	Outdoor sound range		28 – 55
Moisture removal	Moisture removal	Pts/h	1.8
		L/hr	0.9
Airflow	Indoor	CFM	226 – 400
		m³/hr	384 – 680
	Outdoor	CFM	385 – 638
		m³/hr	654 – 1084

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



Bottom return configuration (if required) must be specified at time of order. Standard units are supplied with side returns.

10.2 115V Heat Pump + Elec Heat + ERV – High Performance

AIO™ CEILING DUCTED – 115V + 900 W ELEC. HEAT + ERV – R32 – SUBMITTAL (ADE10R3HI)

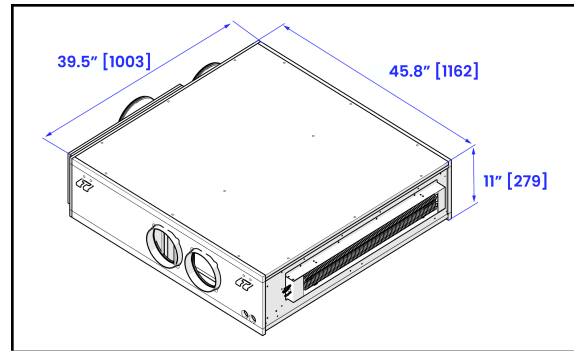
Job	Reference	Construction
Location	Approval	Quote Number
Engineer	Date	Drawing Number
Submitted To	Submitted By	P.O. Number

General Features

- BLDC inverter compressor
- ECM fans
- Integrated ERV
- Field configured 900W electric heat supplement
- Bathroom exhaust connection
- MERV 13 filters on fresh air
- R32 Refrigerant
- Auto restart
- Intelligent defrost
- No outdoor unit
- Onboard touch controller
- Washable filter
- 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	3,100 – 15,000
	Rated capacity (95°F)		7,700
	Efficiency	EER2	10.55
Heating	Min-Max	BTU/H	3,500 – 14,000
	Rated capacity (47°F)		8,600
	Rated capacity (5°F)		6,200
	Efficiency	COP	3.64
Sound	Indoor: Low-High at 1 m distance	db(A)	38 – 49
	Indoor: Low-High at 3 m distance		30 – 41
	Outdoor sound range		28 – 55
Moisture removal	Moisture removal	Pts/h	1.8
		L/hr	0.9
Airflow	Indoor	CFM	226 – 400
		m ³ /hr	384 – 680
	Outdoor	CFM	385 – 638
		m ³ /hr	654 – 1084

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



Bottom return configuration (if required) must be specified at time of order. Standard units are supplied with side returns.

10.3 230V Heat Pump + ERV – High Performance

AIO™ CEILING DUCTED – 230V – NO ELECTRIC HEAT – ERV
– R32 – SUBMITTAL (ADP10R3H2)

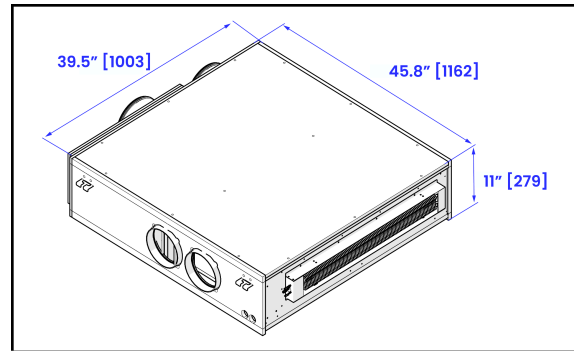
Job	Reference	Construction
Location	Approval	Quote Number
Engineer	Date	Drawing Number
Submitted To	Submitted By	P.O. Number

General Features

- BLDC inverter compressor
- ECM fans
- Integrated ERV
- Field configured 900W or 1,800W electric heat supplement
- Bathroom exhaust connection
- MERV 13 filters on fresh air
- R32 Refrigerant
- Auto restart
- Intelligent defrost
- No outdoor unit
- Onboard touch controller
- Washable filter
- 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	3,100 – 15,000
	Rated capacity (95°F)		7,700
	Efficiency	EER2	10.55
Heating	Min-Max	BTU/H	3,500 – 14,000
	Rated capacity (47°F)		8,600
	Rated capacity (5°F)		6,200
	Efficiency	COP	3.64
Sound	Indoor: Low-High at 1 m distance	db(A)	38 – 49
	Indoor: Low-High at 3 m distance		30 – 41
	Outdoor sound range		28 – 55
Moisture removal	Moisture removal	Pts/h	1.8
		L/hr	0.9
Airflow	Indoor	CFM	226 – 400
		m³/hr	384 – 680
	Outdoor	CFM	385 – 638
		m³/hr	654 – 1084

Electric Specifications	230V/1,800W
Power Supply	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	
☐	Wireless Remote	WRCH20
☐	Basic Touch Controller	LTCH20
☐	Recessed Touch Controller	RTCH20
☐	Advanced TFT Controller with 7-Day program	TFTH20
☐	Wireless (AA Battery) Infrared Controller with 7-Day program	WIPT20
☐	Third Party Gateway	TPG015
☐	WiFi Module	WIFI30
☐	E-Paper EOS Controller	EEOS12
☐	Simple EOS Controller	SEOS12
☐	Integration gateway for LTCH20, TFTH20 and MODBUS	GWN
☐	Integration gateway for LTCH20, TFTH20, MODBUS, BACnet, and third-party thermostats	GWX



Bottom return configuration (if required) must be specified at time of order. Standard units are supplied with side returns.

10.4 230V Heat Pump + 1,800W Elec Heat + ERV - High Performance

AIO™ CEILING DUCTED - 230V - 1,800W ELEC. HEAT + ERV
- R32 - SUBMITTAL (ADK10R3H2)

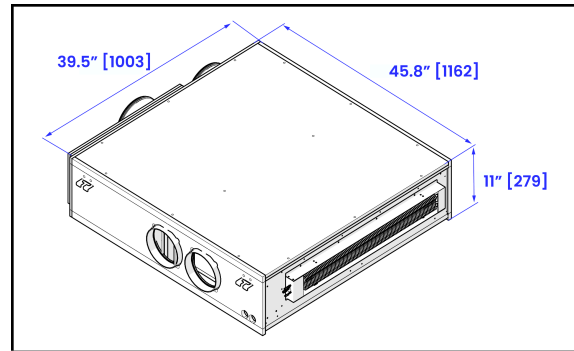
Job	Reference	Construction
Location	Approval	Quote Number
Engineer	Date	Drawing Number
Submitted To	Submitted By	P.O. Number

General Features

- BLDC inverter compressor
- ECM fans
- Integrated ERV
- Field configured 900W or 1,800W electric heat supplement
- Bathroom exhaust connection
- MERV 13 filters on fresh air
- R32 Refrigerant
- Auto restart
- Intelligent defrost
- No outdoor unit
- Onboard touch controller
- Washable filter
- 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	3,100 - 15,000
	Rated capacity (95°F)		7,700
	Efficiency	EER2	10.55
Heating	Min-Max	BTU/H	3,500 - 14,000
	Rated capacity (47°F)		8,600
	Rated capacity (5°F)		6,200
	Efficiency	COP	3.64
Sound	Indoor: Low-High at 1 m distance	db(A)	38 - 49
	Indoor: Low-High at 3 m distance		30 - 41
	Outdoor sound range		28 - 55
Moisture removal	Moisture removal	Pts/h	1.8
		L/hr	0.9
Airflow	Indoor	CFM	226 - 400
		m³/hr	384 - 680
	Outdoor	CFM	385 - 638
		m³/hr	654 - 1084

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



Bottom return configuration (if required) must be specified at time of order. Standard units are supplied with side returns.

10.5 230V Heat Pump + 2,700W Elec Heat + ERV - High Performance

AIO™ CEILING DUCTED - 230V - 2,700W ELEC. HEAT + ERV
- R32 - SUBMITTAL (ADLI0R3H2)

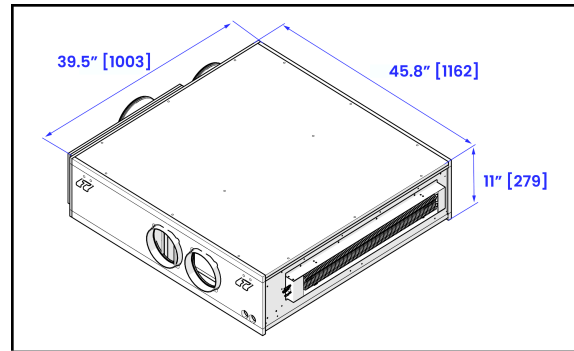
Job	Reference	Construction
Location	Approval	Quote Number
Engineer	Date	Drawing Number
Submitted To	Submitted By	P.O. Number

General Features

- BLDC inverter compressor
- ECM fans
- Integrated ERV
- Field configured 900W, 1,800W or 2,700W electric heat supplement
- Bathroom exhaust connection
- MERV 13 filters on fresh air
- R32 Refrigerant
- Auto restart
- Intelligent defrost
- No outdoor unit
- Onboard touch controller
- Washable filter
- 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	3,100 - 15,000
	Rated capacity (95°F)		7,700
	Efficiency	EER2	10.55
Heating	Min-Max	BTU/H	3,500 - 14,000
	Rated capacity (47°F)		8,600
	Rated capacity (5°F)		6,200
	Efficiency	COP	3.64
Sound	Indoor: Low-High at 1 m distance	db(A)	38 - 49
	Indoor: Low-High at 3 m distance		30 - 41
	Outdoor sound range		28 - 55
Moisture removal	Moisture removal	Pts/h	1.8
		L/hr	0.9
Airflow	Indoor	CFM	226 - 400
		m³/hr	384 - 680
	Outdoor	CFM	385 - 638
		m³/hr	654 - 1084

Electric Specifications	
Power Supply	230V/1Ph/60Hz
Voltage Range	180-253
Running Amps Cooling	4.1
Running Amps Heating	5.0
MCA	23
Maximum Overcurrent Protection (A)	25
Max Power Input (amps) Cooling	9.5
Max Power Input (amps) Heating	21.2

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



Bottom return configuration (if required) must be specified at time of order. Standard units are supplied with side returns.

10.6 230V Heat Pump + 1,800W Elec Heat + 1kW Preheat + ERV – High Performance

AIO CEILING DUCTED – 230V – 1,800W ELEC. HEAT+ 1kW PREHEAT + ERV – R32 – SUBMITTAL (ADUI0R3H2)

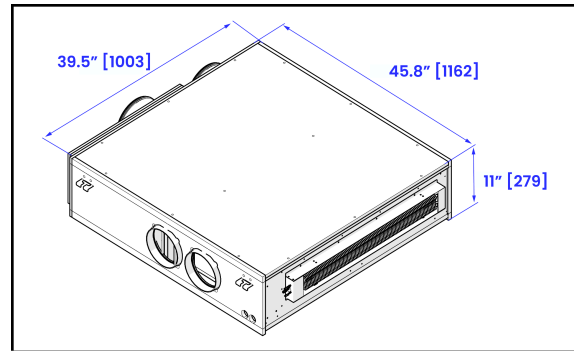
Job	Reference	Construction
Location	Approval	Quote Number
Engineer	Date	Drawing Number
Submitted To	Submitted By:	P.O. Number:

General Features

- BLDC inverter compressor
- ECM fans
- Integrated ERV
- Field configured 900W or 1,800W electric heat supplement
- Field configured 1kW preheat
- Bathroom exhaust connection
- MERV 13 filters on fresh air
- R32 Refrigerant
- Auto restart
- Intelligent defrost
- No outdoor unit
- Onboard touch controller
- Washable filter
- 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	3,100 – 15,000
	Rated capacity (95°F)		7,700
	Efficiency	EER2	10.55
Heating	Min-Max	BTU/H	3,500 – 14,000
	Rated capacity (47°F)		8,600
	Rated capacity (5°F)		6,200
	Efficiency	COP	3.64
Sound	Indoor: Low-High at 1 m distance	db(A)	38 – 49
	Indoor: Low-High at 3 m distance		30 – 41
	Outdoor sound range		28 – 55
Moisture removal	Moisture removal	Pts/h	1.8
		L/hr	0.9
Airflow	Indoor	CFM	226 – 400
		m³/hr	384 – 680
	Outdoor	CFM	385 – 638
		m³/hr	654 – 1084

Electric Specifications	
Power Supply	230V/1Ph/60Hz
Voltage Range	180-253
Running Amps Cooling	4.1
Running Amps Heating	5.0
MCA	23
Maximum Overcurrent Protection (A)	25
Max Power Input (amps) Cooling	9.5
Max Power Input (amps) Heating	21.7

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



Bottom return configuration (if required) must be specified at time of order. Standard units are supplied with side returns.

10.7 230V Heat Pump + 2,700W Elec Heat + 1kW Preheat + ERV – High Performance

AIO™ CEILING DUCTED – 230V – 2,700W ELEC. HEAT +1kW PREHEAT + ERV – R32 – SUBMITTAL (ADV10R3H2)

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

General Features

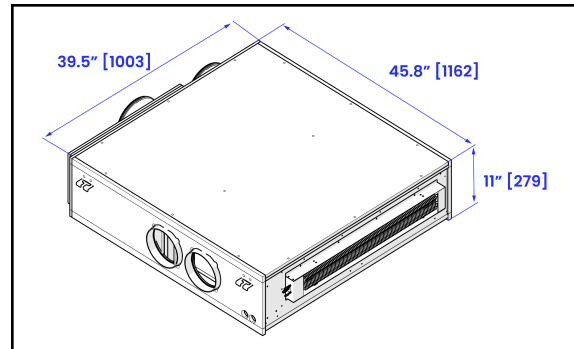
- BLDC inverter compressor
- ECM fans
- Integrated ERV
- Field configured 900W, 1,800W or 2,700W electric heat supplement
- Field configured 1kW preheat
- Bathroom exhaust connection
- MERV 13 filters on fresh air
- R32 Refrigerant
- Auto restart
- Intelligent defrost
- No outdoor unit
- Onboard touch controller
- Washable filter
- 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	3,100 – 15,000
	Rated capacity (95°F)		7,700
	Efficiency	EER2	10.55
Heating	Min-Max	BTU/H	3,500 – 14,000
	Rated capacity (47°F)		8,600
	Rated capacity (5°F)		6,200
	Efficiency	COP	3.64
Sound	Indoor: Low-High at 1 m distance	db(A)	38 – 49
	Indoor: Low-High at 3 m distance		30 – 41
	Outdoor sound range		28 – 55
Moisture removal	Moisture removal	Pts/h	1.8
		L/hr	0.9
Airflow	Indoor	CFM	226 – 400
		m³/hr	384 – 680
	Outdoor	CFM	385 – 638
		m³/hr	654 – 1084

Electric Specifications	
Power Supply	230V/1Ph/60Hz
Voltage Range	180-253
Running Amps Cooling	4.1
Running Amps Heating	5.0
MCA	28
Maximum Overcurrent Protection (A)	30
Max Power Input (amps) Cooling	9.5
Max Power Input (amps) Heating	25.6

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



Bottom return configuration (if required) must be specified at time of order. Standard units are supplied with side returns.

10.8 115V Heat Pump + ERV - Energy Star Compliant

AIO™ CEILING DUCTED - 115V - NO ELECTRIC HEAT - ERV - R32 - SUBMITTAL (ADP09R3H1)

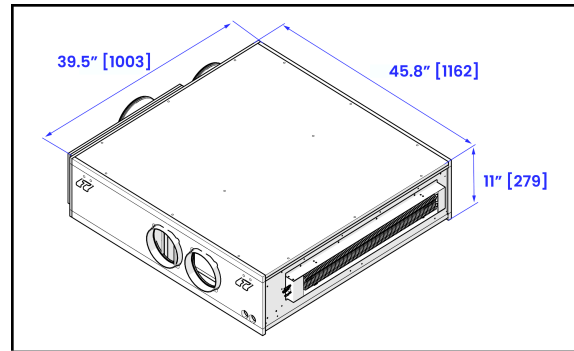
Job	Reference	Construction
Location	Approval	Quote Number
Engineer	Date	Drawing Number
Submitted To	Submitted By	P.O. Number

General Features

- BLDC inverter compressor
- ECM fans
- Integrated ERV
- Field configured 900W or 1,800W electric heat supplement
- Bathroom exhaust connection
- MERV 13 filters on fresh air
- R32 Refrigerant
- Auto restart
- Intelligent defrost
- No outdoor unit
- Onboard touch controller
- Washable filter
- 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	3,100 - 15,000
	Rated capacity (95°F)		6,100
	Efficiency	EER2	11.56
Heating	Min-Max	BTU/H	3,500 - 14,000
	Rated capacity (47°F)		8,200
	Rated capacity (5°F)		5,900
	Efficiency	COP	3.73
Sound	Indoor: Low-High at 1 m distance	db(A)	38 - 49
	Indoor: Low-High at 3 m distance		30 - 41
	Outdoor sound range		28 - 55
Moisture removal	Moisture removal	Pts/h	1.8
		L/hr	0.9
Airflow	Indoor	CFM	226 - 400
		m³/hr	384 - 680
	Outdoor	CFM	385 - 638
		m³/hr	654 - 1084

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



Bottom return configuration (if required) must be specified at time of order. Standard units are supplied with side returns.

10.9 115V Heat Pump + Elec Heat + ERV - Energy Star Compliant

AIO™ CEILING DUCTED - 115V + 900 W ELEC. HEAT + ERV - R32 - SUBMITTAL (ADE09R3H1)

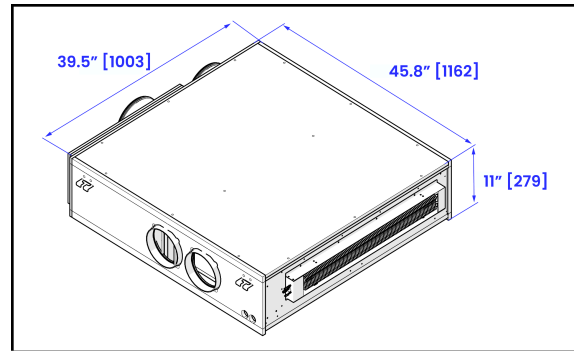
Job	Reference	Construction
Location	Approval	Quote Number
Engineer	Date	Drawing Number
Submitted To	Submitted By	P.O. Number

General Features

- BLDC inverter compressor
- ECM fans
- Integrated ERV
- Field configured 900W electric heat supplement
- Bathroom exhaust connection
- MERV 13 filters on fresh air
- R32 Refrigerant
- Auto restart
- Intelligent defrost
- No outdoor unit
- Onboard touch controller
- Washable filter
- 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			9000W/1,800W
Cooling	Min-Max	BTU/H	3,100 - 15,000
	Rated capacity (95°F)		6,100
	Efficiency	EER2	11.56
Heating	Min-Max	BTU/H	3,500 - 14,000
	Rated capacity (47°F)		8,200
	Rated capacity (5°F)		5,900
	Efficiency	COP	3.73
Sound	Indoor: Low-High at 1 m distance	db(A)	38 - 49
	Indoor: Low-High at 3 m distance		30 - 41
	Outdoor sound range		28 - 55
Moisture removal	Moisture removal	Pts/h	1.8
		L/hr	0.9
Airflow	Indoor	CFM	226 - 400
		m³/hr	384 - 680
	Outdoor	CFM	385 - 638
		m³/hr	654 - 1084

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



Bottom return configuration (if required) must be specified at time of order. Standard units are supplied with side returns.

10.10 230V Heat Pump + ERV – Energy Star Compliant

AIO™ CEILING DUCTED – 230V – NO ELECTRIC HEAT – ERV
– R32 – SUBMITTAL (ADP09R3H2)

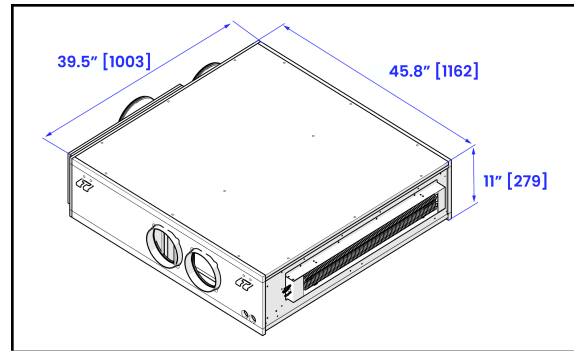
Job	Reference	Construction
Location	Approval	Quote Number
Engineer	Date	Drawing Number
Submitted To	Submitted By	P.O. Number

General Features

- BLDC inverter compressor
- ECM fans
- Integrated ERV
- Field configured 900W or 1,800W electric heat supplement
- Bathroom exhaust connection
- MERV 13 filters on fresh air
- R32 Refrigerant
- Auto restart
- Intelligent defrost
- No outdoor unit
- Onboard touch controller
- Washable filter
- 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			9000W/1,800W
Cooling	Min-Max	BTU/H	3,100 – 15,000
	Rated capacity (95°F)		6,100
	Efficiency	EER2	11.56
Heating	Min-Max	BTU/H	3,500 – 14,000
	Rated capacity (47°F)		8,200
	Rated capacity (5°F)		5,900
	Efficiency	COP	3.73
Sound	Indoor: Low-High at 1 m distance	db(A)	38 – 49
	Indoor: Low-High at 3 m distance		30 – 41
	Outdoor sound range		28 – 55
Moisture removal	Moisture removal	Pts/h	1.8
		L/hr	0.9
Airflow	Indoor	CFM	226 – 400
		m³/hr	384 – 680
	Outdoor	CFM	385 – 638
		m³/hr	654 – 1084

Electric Specifications	230V/1,800W
Power Supply	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	
☐	Wireless Remote	WRCH20
☐	Basic Touch Controller	LTCH20
☐	Recessed Touch Controller	RTCH20
☐	Advanced TFT Controller with 7-Day program	TFTH20
☐	Wireless (AA Battery) Infrared Controller with 7-Day program	WIPT20
☐	Third Party Gateway	TPG015
☐	WiFi Module	WIFI30
☐	E-Paper EOS Controller	EEOS12
☐	Simple EOS Controller	SEOS12
☐	Integration gateway for LTCH20, TFTH20 and MODBUS	GWN
☐	Integration gateway for LTCH20, TFTH20, MODBUS, BACnet, and third-party thermostats	GWX



Bottom return configuration (if required) must be specified at time of order. Standard units are supplied with side returns.

10.11 230V Heat Pump + 1,800W Elec Heat + ERV – Energy Star Compliant

AIO™ CEILING DUCTED – 230V – 1,800W ELEC. HEAT + ERV
– R32 – SUBMITTAL (ADK09R3H2)

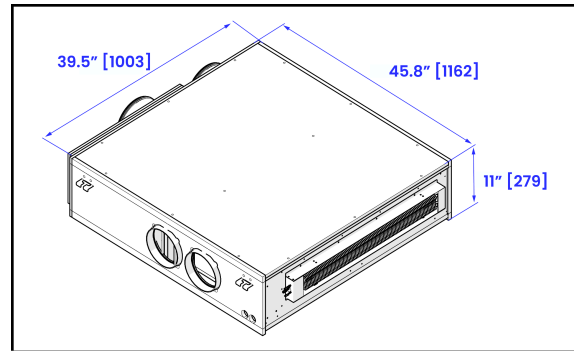
Job	Reference	Construction
Location	Approval	Quote Number
Engineer	Date	Drawing Number
Submitted To	Submitted By	P.O. Number

General Features

- BLDC inverter compressor
- ECM fans
- Integrated ERV
- Field configured 900W or 1,800W electric heat supplement
- Bathroom exhaust connection
- MERV 13 filters on fresh air
- R32 Refrigerant
- Auto restart
- Intelligent defrost
- No outdoor unit
- Onboard touch controller
- Washable filter
- 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	3,100 – 15,000
	Rated capacity (95°F)		6,100
	Efficiency	EER2	11.56
Heating	Min-Max	BTU/H	3,500 – 14,000
	Rated capacity (47°F)		8,200
	Rated capacity (5°F)		5,900
	Efficiency	COP	3.73
Sound	Indoor: Low-High at 1 m distance	db(A)	38 – 49
	Indoor: Low-High at 3 m distance		30 – 41
	Outdoor sound range		28 – 55
Moisture removal	Moisture removal	Pts/h	1.8
		L/hr	0.9
Airflow	Indoor	CFM	226 – 400
		m³/hr	384 – 680
	Outdoor	CFM	385 – 638
		m³/hr	654 – 1084

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



Bottom return configuration (if required) must be specified at time of order. Standard units are supplied with side returns.

10.12 230V Heat Pump + 2,700W Elec Heat + ERV – Energy Star Compliant

AIO™ CEILING DUCTED – 230V – 2,700W ELEC. HEAT + ERV
– R32 – SUBMITTAL (ADL09R3H2)

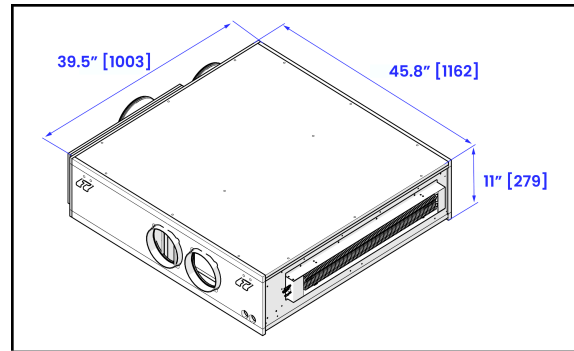
Job	Reference	Construction
Location	Approval	Quote Number
Engineer	Date	Drawing Number
Submitted To	Submitted By	P.O. Number

General Features

- BLDC inverter compressor
- ECM fans
- Integrated ERV
- Field configured 900W, 1,800W, or 2,700W electric heat supplement
- Bathroom exhaust connection
- MERV 13 filters on fresh air
- R32 Refrigerant
- Auto restart
- Intelligent defrost
- No outdoor unit
- Onboard touch controller
- Washable filter
- 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	3,100 – 15,000
	Rated capacity (95°F)		6,100
	Efficiency	EER2	11.56
Heating	Min-Max	BTU/H	3,500 – 14,000
	Rated capacity (47°F)		8,200
	Rated capacity (5°F)		5,900
	Efficiency	COP	3.73
Sound	Indoor: Low-High at 1 m distance	db(A)	38 – 49
	Indoor: Low-High at 3 m distance		30 – 41
	Outdoor sound range		28 – 55
Moisture removal	Moisture removal	Pts/h	1.8
		L/hr	0.9
Airflow	Indoor	CFM	226 – 400
		m³/hr	384 – 680
	Outdoor	CFM	385 – 638
		m³/hr	654 – 1084

Electric Specifications	
Power Supply	230V/1Ph/60Hz
Voltage Range	180–253
Running Amps Cooling	4.1
Running Amps Heating	5.0
MCA	23
Maximum Overcurrent Protection (A)	25
Max Power Input (amps) Cooling	9.5
Max Power Input (amps) Heating	21.2

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



Bottom return configuration (if required) must be specified at time of order. Standard units are supplied with side returns.

10.13 230V Heat Pump + 1,800W Elec Heat + 1kW Preheat + ERV – Energy Star Compliant

AIO CEILING DUCTED – 230V – 1,800W ELEC. HEAT+ 1kW PREHEAT + ERV – R32 – SUBMITTAL (ADU09R3H2)

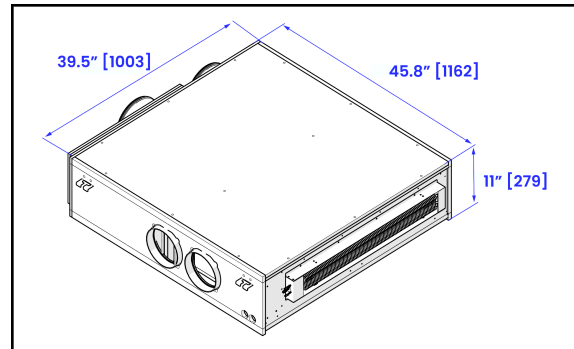
Job	Reference	Construction
Location	Approval	Quote Number
Engineer	Date	Drawing Number
Submitted To	Submitted By:	P.O. Number:

General Features

- BLDC inverter compressor
- ECM fans
- Integrated ERV
- Field configured 900W or 1,800W electric heat supplement
- Field configured 1kW preheat
- Bathroom exhaust connection
- MERV 13 filters on fresh air
- R32 Refrigerant
- Auto restart
- Intelligent defrost
- No outdoor unit
- Onboard touch controller
- Washable filter
- 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	3,100 – 15,000
	Rated capacity (95°F)		6,100
	Efficiency	EER2	11.56
Heating	Min-Max	BTU/H	3,500 – 14,000
	Rated capacity (47°F)		8,200
	Rated capacity (5°F)		5,900
	Efficiency	COP	3.73
Sound	Indoor: Low-High at 1 m distance	db(A)	38 – 49
	Indoor: Low-High at 3 m distance		30 – 41
	Outdoor sound range		28 – 55
Moisture removal	Moisture removal	Pts/h	1.8
		L/hr	0.9
Airflow	Indoor	CFM	226 – 400
		m ³ /hr	384 – 680
	Outdoor	CFM	385 – 638
		m ³ /hr	654 – 1084

Electric Specifications	
Power Supply	230V/1Ph/60Hz
Voltage Range	180–253
Running Amps Cooling	4.1
Running Amps Heating	5.0
MCA	23
Maximum Overcurrent Protection (A)	25
Max Power Input (amps) Cooling	9.5
Max Power Input (amps) Heating	21.7

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



Bottom return configuration (if required) must be specified at time of order. Standard units are supplied with side returns.

10.14 230V Heat Pump + 2,700W Elec Heat + 1kW Preheat + ERV – Energy Star Compliant

AIO™ CEILING DUCTED – 230V – 2,700W ELEC. HEAT + 1kW PREHEAT + ERV – R32 – SUBMITTAL (ADV09R3H2)

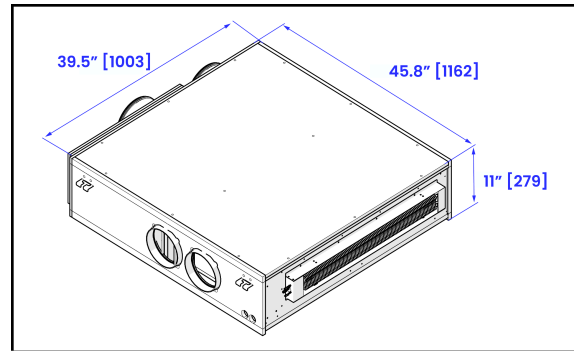
Job	Reference	Construction
Location	Approval	Quote Number
Engineer	Date	Drawing Number
Submitted To	Submitted By	P.O. Number

General Features

- BLDC inverter compressor
- ECM fans
- Integrated ERV
- Field configured 900W, 1,800W, or 2,700W electric heat supplement
- Field configured 1kW preheat
- Bathroom exhaust connection
- MERV 13 filters on fresh air
- R32 Refrigerant
- Auto restart
- Intelligent defrost
- No outdoor unit
- Onboard touch controller
- Washable filter
- 4 selectable fan speeds + Auto
- 10-Year limited warranty (after certification)
- Made in Italy



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Performance Specifications			
Cooling	Min-Max	BTU/H	3,100 – 15,000
	Rated capacity (95°F)		6,100
	Efficiency	EER2	11.56
Heating	Min-Max	BTU/H	3,500 – 14,000
	Rated capacity (47°F)		8,200
	Rated capacity (5°F)		5,900
	Efficiency	COP	3.73
Sound	Indoor: Low-High at 1 m distance	db(A)	38 – 49
	Indoor: Low-High at 3 m distance		30 – 41
	Outdoor sound range		28 – 55
Moisture removal	Moisture removal	Pts/h	1.8
		L/hr	0.9
Airflow	Indoor	CFM	226 – 400
		m³/hr	384 – 680
	Outdoor	CFM	385 – 638
		m³/hr	654 – 1084

Electric Specifications	
Power Supply	230V/1Ph/60Hz
Voltage Range	180-253
Running Amps Cooling	4.1
Running Amps Heating	5.0
MCA	28
Maximum Overcurrent Protection (A)	30
Max Power Input (amps) Cooling	9.5
Max Power Input (amps) Heating	25.6

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

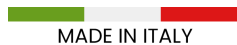


Bottom return configuration (if required) must be specified at time of order. Standard units are supplied with side returns.



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

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Revised August 18, 2026

AIO™ Ceiling Ducted with ERV (Gen 3)

Product Data Sheet