AIO® Ceiling Ducted - without ERV (Gen 3)

Product Data Sheet



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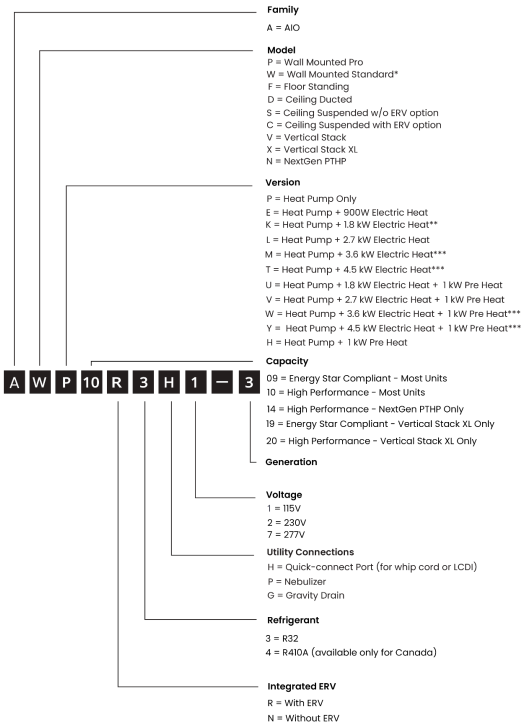
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MODEL NUMBER NOMENCLATURE

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

Note: 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® nomenclature



* 8" Vents : Just generation (e.g. = 3)
6" Vents : Generation + SP (e.g. = 3SP)
** Field convertible to 900W
*** AIO® Vertical Stack XL **Only**

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1. READING THIS DOCUMENTATION

Some language and symbols in this documentation have specific meanings.

1.1 Documentation-specific language

Reference to the product
Any reference to "the unit" refers to the AIO® Ceiling Ducted without 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 WITHOUT ERV OVERVIEW

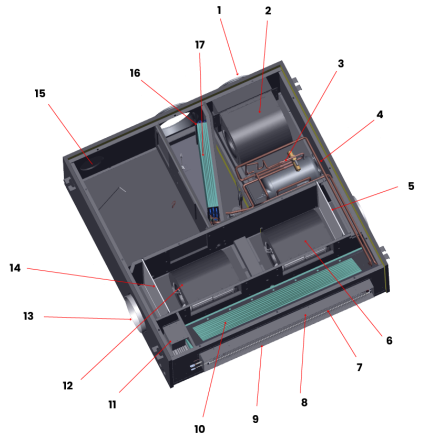
An AIO® Ceiling Ducted unit can be discreetly installed above a ceiling and is ideal for single-room or multi-room applications. The return can be from the sides or the bottom for maximum flexibility. Use this unit anywhere ducting is required. Use with any interior grille and louver to provide additional design flexibility.

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 exhaust vent	**10**	High-efficiency indoor coil
2	Condenser exhaust fan	**11**	Controllers Connection Terminal
3	Twin rotary inverter compressor	**12**	ECM supply fan
4	Return air connection	**13**	Return air vent
5	Return air filter	**14**	Return air filter
6	ECM supply fan	**15**	Condenser intake
7	900/1800W electric heat strip	**16**	Condensate drain
8	Supply air connection	**17**	High efficiency outdoor coil
9	Onboard touch controller (underneath the unit)		

Component positions are mirrored in AIO® Ceiling Ducted - Mirror Version units.

2.2 Key features

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

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

MERV 13 clean air
Clean outdoor air is essential to well-being and safety. The optional MERV 13 filter ensures that all air entering the room or home is clean and safe.

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 operates at full efficiency when outdoor temperatures are as low as 5°F (-15°C), and will still operate at colder temperatures 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® Ceiling Ducted'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 heat pump lacks sufficient power. This electric heating setup consists of two/three 900W heaters, strategically staged to optimize efficiency while minimizing electric heat use. 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.

Versatile on/off options
AIO® Ceiling Ducted'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® Ceiling Ducted'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 ¾" (19.1 mm) clearance on all sides. 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® Ceiling Ducted unit can be easily maintained and repaired from underneath without having to remove the unit from the ceiling.

Versatile controls
The AIO® Ceiling Ducted unit includes an onboard touch controller and an optional iOS and Android app. The unit 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.

AIO® Ceiling Ducted 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 the ceiling, without restrictions.

Supply air
The rectangular 3.9" x 30.3" (100 mm x 770 mm) supply air connection is ideal for a supply grille or ducting, with up to 0.6" WC (149.5 Pa) external static pressure (combined between return and supply).

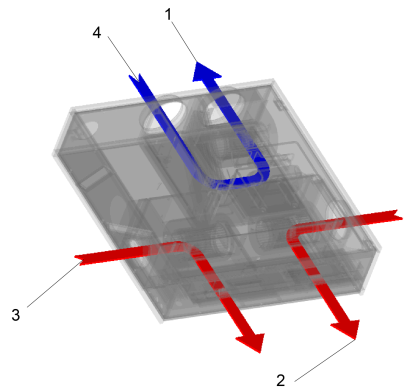
Return air - bottom option
The bottom 8.7" x 32.3" (220 mm x 820 mm) return is designed to be used with a ceiling-mounted return grille or an access hatch with an integrated return grille.

Return air-side options
The left and right side 6" (160 mm) round connections can be ducted to one or more rooms with up to 0.6" WC (149.5 Pa) external static pressure (combined between return and supply). It can also be left open as a side plenum return. 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.

3.1 Side Return (Standard Configuration)

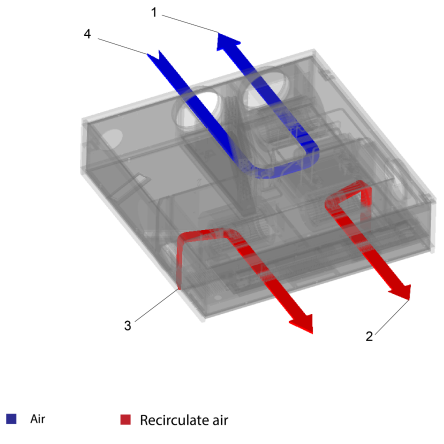
Figure 3.



1	Exhaust air	**3**	Return air
2	Supply air	**4**	Intake air

3.2 Bottom Return (Special Field-Configured Option)

Figure 4.



1	Exhaust air	**3**	Return air
2	Supply air	**4**	Intake 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

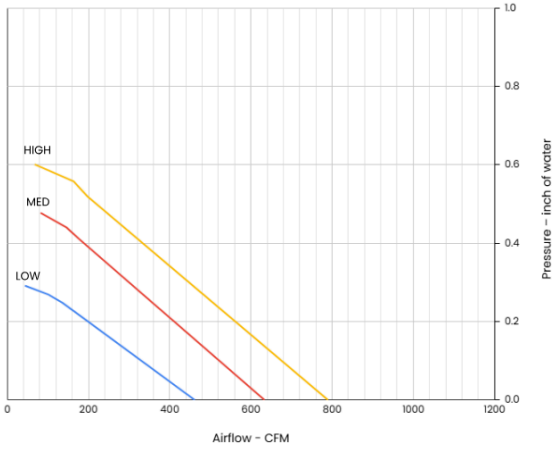
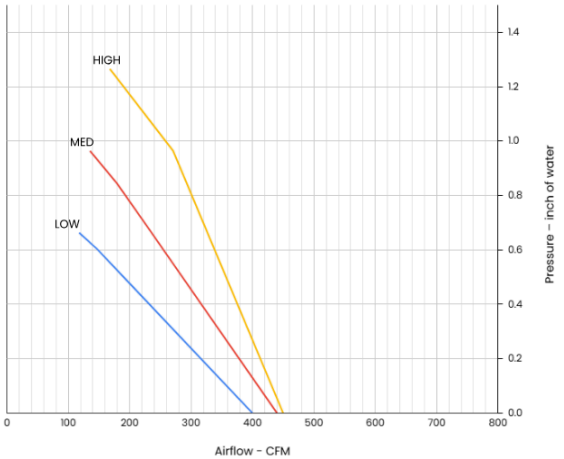


Figure 6. Outdoor fan performance curves



4. INSTALLATION

Figure 7.



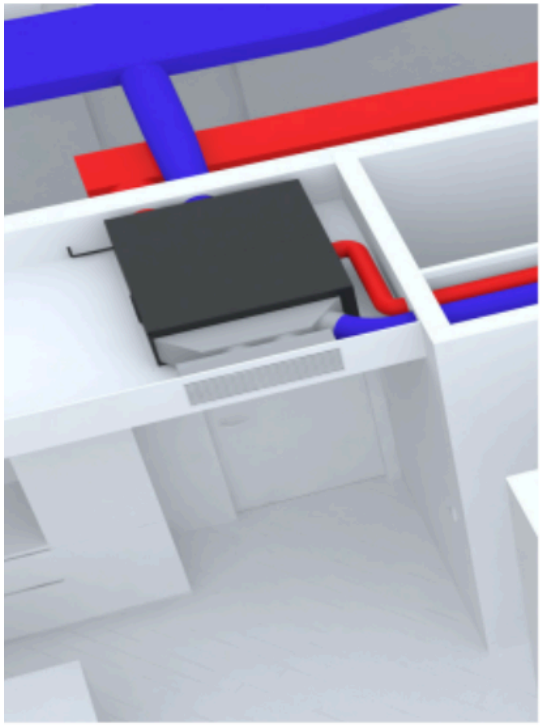
Figure 8. Direct existing window vent



Figure 9. Direct external vent



Figure 10. Shared supply and exhaust vent



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.
- Secure any installation site insulation so that it cannot detach or be drawn into the unit’s air openings.
- 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.

- 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″ (88.9 mm)
  - Bottom of unit to floor: 11.8″ (300 mm)
  - Top of unit to any obstruction: ⅓″ (8.5 mm)
- Unblocked vents on the exterior and no obstacles within 36″ (914.4 mm).
- An internal drain is highly recommended.
- If using an externally run condensate line, 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.
- The unit must be perfectly level on the horizontal axis and level with a slight pitch to the rear on the vertical axis.
- The unit must be attached to the ducts tightly, with zero leakage between the external ducts and the unit.

4.6 Outdoor air louver options

AIO® Ceiling Ducted units accommodate various outdoor air louver designs, including architectural louvers and perforated panels.

Choose one of the following options:

- Use an INNOVA-approved louver, available through your INNOVA distributor:
  - **Sunvent:** LLA/C, LLA/F, LLA/S
  - **Thermaduct:** RLA8
- Use a custom louver designed with guidance from INNOVA.

Contact INNOVA before selecting, designing, or fabricating a custom louver. An unsuitable louver may restrict airflow, impair unit operation, and affect warranty coverage.

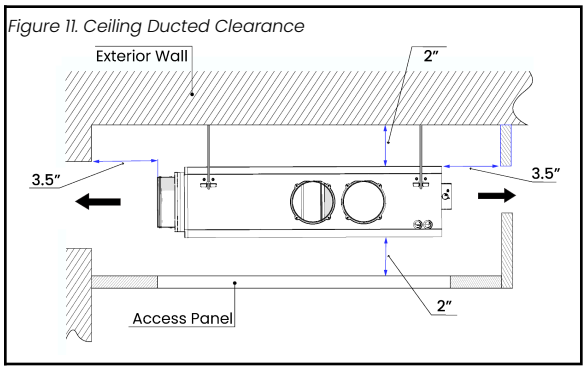
4.7 Clearance requirements

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.

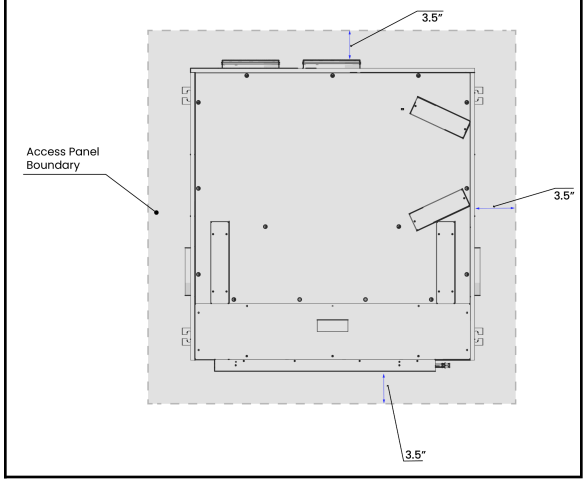
- **Ceiling**
  There must be a 2″ (50 mm) minimum clearance between the unit and the ceiling to minimize noise from vibrations.
- **Bottom**
  There must be a minimum of 2″ (50 mm) clearance between the unit and the false ceiling or access hatch to minimize noise from vibrations.
- **Front (supply air 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 11. Ceiling Ducted Clearance



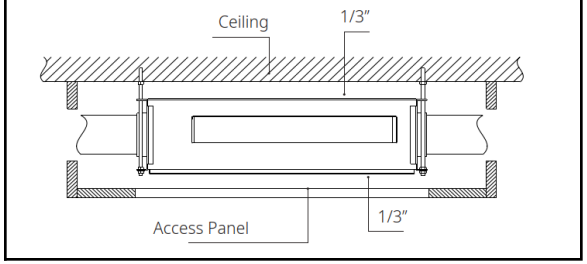
- **Access hatch**
  There must be an access hatch of at least the size of the unit plus 3.5" (90 mm) all around. The minimum size is 45.0" × 49.3″ (1142 mm × 1251 mm). A return grille can serve as an access hatch, or an access hatch with an integrated return grille can be used

Figure 12. Access hatch



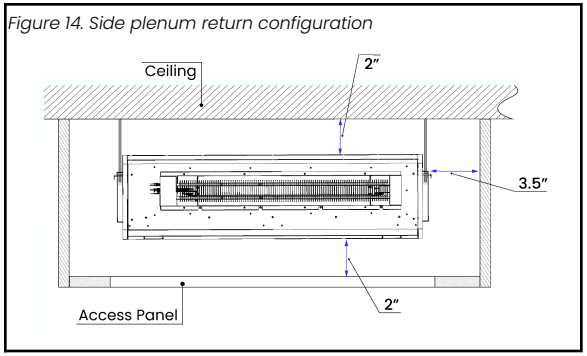
- **Sides**
  The clearance required on the sides is dependent on how the unit is configured for return and stale exhaust air. Minimum clearance is required between the unit and the wall to minimize noise from vibrations. Ensure sufficient clearance to attach ductwork to the rear vents.
- **Side ducted return configuration**
  The clearance required is based solely on the ductwork design. Ensure sufficient clearance to attach the ductwork to the side return.

Figure 13. 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 14. 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. 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	7.02
	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 (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	8,300	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	860	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	2.83	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	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. 15°F(-9.4°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	7,800	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*		674	760	1,140	1,062	1,013
	Rated		693	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	3.01	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	HSPF2	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. 15°F(-9.4°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.

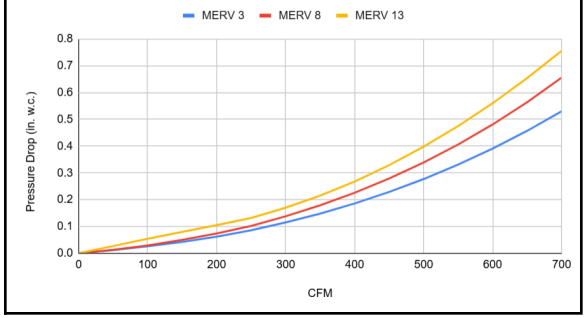
5.3 Airflow

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	0.6" WC (149.5 Pa)
	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 15. 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	0.7" WC (174.4 Pa)
	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 General

5.5.1 Controls

Table 8. 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. 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

5.5.3 Condensate

Table 10. Condensate

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

5.5.4 Compressor

Table 11. 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)		

5.5.5 Physical data

For detailed dimensions, refer to the drawings in Section 7.

Table 12. Physical data

Physical data			
Dimensions	Cabinet Only	in	39.5 W x 40.1 D x 11 H
		mm	1003 W x 1018 D x 279 H
	Overall Installed (Minimum)	in	41.4 W x 42.7 D x 11 H
		mm	1052 W x 1085 D x 279 H
Weight	Heat Pump Only	lb	165.4
		kg	75
	1.8 kW Electric Post Heater	lb	3.4
		kg	2
	2.7 kW Electric Post Heater	lb	6.6
		kg	3
Cabinet	Finish		Black covered with dark gray EPDM
	Material		Steel

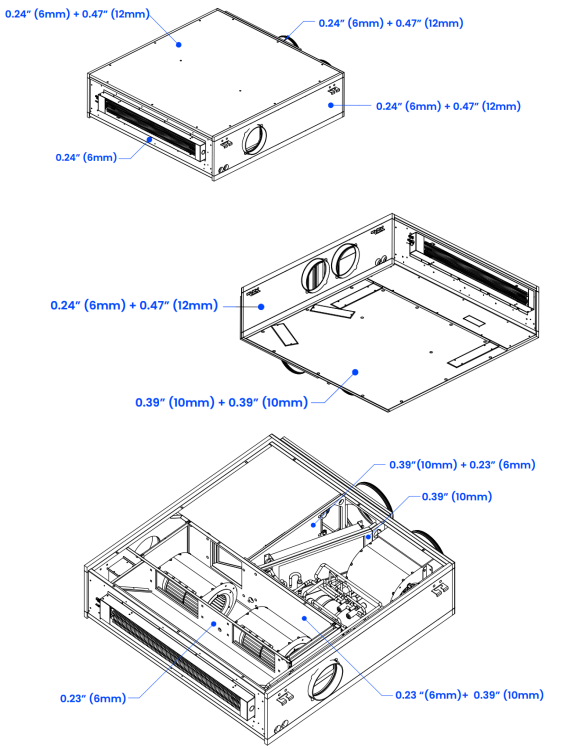
5.5.6 Insulation

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.

Figure 16. Insulation Thickness



5.6 Electrical

5.6.1 General

Table 14 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 (nominal)	A	8.2	4.1
Cooling - heat pump (max)		19.1	8.6
Heating - heat pump (nominal)	A	10.0	5.0
Heating-heat pump + (max)		19.1	8.6
Heat Pump + 900 W Elec Heater			
Maximum	A	27.3	-
Heat Pump + 1,800 W Elec Heater			
Maximum	A	-	16.4
Heat Pump + 2,700 W Elec Heater			
Maximum	A	-	20.3

5.6.2 Compressor

Table 15. General

Compressor			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	0.10		

5.6.3 Circuit breakers

Table 16. Circuit breakers

Circuit breakers			115V	208V	230V	240V
Heat Pump	MCA	A	23	12	11	10
	MOCP		35	15	15	15
Heat Pump + 900W Elec Heat	MCA	A	31	-	-	-
	MOCP		40	-	-	-
Heat Pump + 1800W Elec Heat	MCA	A	-	19	18	18
	MOCP		-	20	20	20
Heat Pump + 2700W Elec Heat	MCA	A	-	22	22	23
	MOCP		-	25	25	25

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

Table 17. 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. LOGIC

6.1 Backup electric heat

The backup electric heater function provides emergency heating while in heating mode if the heat pump becomes unavailable due to a compressor or heat pump alarm. If the heaters are already active, they continue operation; otherwise, the system enables them automatically. Once the alarm condition is cleared and the compressor restarts, the unit returns to normal heat pump operation. This function is only available on units equipped with the optional post-heater.

6.2 Post heater

The post-heater operates during heating and dehumidification modes to maintain a stable supply air temperature. The heater output is regulated to maintain the target temperature setpoint. Separate temperature setpoints are available for heating and dehumidification modes. These functions are only available on units equipped with the optional post-heater.

6.2.1 Post-heater modes

When the unit is equipped with the optional post-heater, different modes of operation are available.

FH Mode

In this mode, the post-heater operates together with the heat pump when additional heating is required. The post-heater activates when the compressor has been running for at least 20 minutes and the room temperature is still at least 3.6°F (2°C) below the setpoint. If the room temperature rises 1.8°F (1°C) above the setpoint, both the heat pump and post-heater shut off. When the room temperature drops 1.8°F (1°C) below the setpoint, the heat pump restarts and checks the above conditions to determine whether the post-heater should activate.

rE Mode

In this mode, the post-heater is activated to work with the heat pump when all of the following conditions are met:

- The compressor has been running for 30 seconds
- The room temperature is below 75.2°F (24°C)
- The room temperature is at least 3.6°F (2°C) below the setpoint
- The indoor coil temperature is below 111.2°F (44°C)
- The indoor fan motor is on and running at a stable speed
- No room temperature sensor or indoor coil sensor alarms are active

Heating is shut off when any of the following conditions occur:

- The indoor coil temperature exceeds 116.6°F (47°C)
- The room temperature exceeds the setpoint
- The room temperature exceeds 77°F (25°C)
- The internal fan stops or fails
- The compressor shuts down

If night mode is enabled or if the outdoor temperature is below -4°F (20°C), the heat pump is disabled and all heating is provided exclusively by the post-heater. The post-heater turns on when the room temperature is 1.8°F (1°C) below the setpoint, the room temperature is below 80.6°F (27°C), and no alarms are present for the room temperature sensor, indoor coil sensor, or indoor fan motor. The post-heater shuts off when the room temperature rises 1.8°F (1°C) above the setpoint, the room temperature rises above 82.4°F (28°C), or the indoor fan motor stops or fails.

6.3 Night mode

The human body temperature naturally falls during sleep. Activating Night mode adjusts the room temperature to match the changes in body temperature. It also operates at a lower noise level and saves energy. This mode may be activated before going to sleep.

Night mode is only available in Heating or Cooling mode. Night mode cannot be activated in Dehumidification, Auto, or Fan Only modes. The temperature automatically adjusts as follows:

- In Heating mode, the temperature setting decreases by 2°F (1.1°C) after one hour and by another 2°F (1.1°C) after two hours.
- In Cooling mode, the temperature setting increases by 2°F (1.1°C) after one hour and by another 2°F (1.1°C) after two hours.
- After the two adjustments, the temperature setting remains unchanged.
- After another six hours, the unit automatically enters standby mode.

If the timer is set while Night mode is activated, the unit will switch off after the set time has passed, overriding the Night mode's timer.

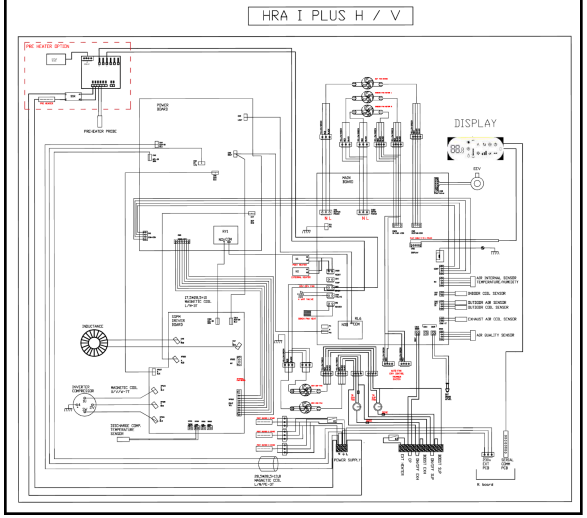
7. WIRING DIAGRAM

7.1 Before January, 2026

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

AIO Ceiling Ducted Wiring Diagram (Pre-Jan 202...

Figure 17.

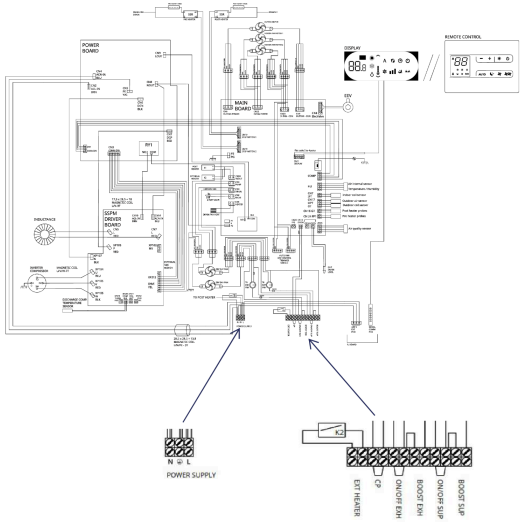


7.2 After January, 2026

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

AIO Ceiling Ducted Wiring Diagram (Post-Jan 20...

Figure 18.



8. DIMENSIONS

8.1 Standard configuration

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

AIO - DIMS Ceiling Ducted.pdf

Figure 19. Unit Dimensions

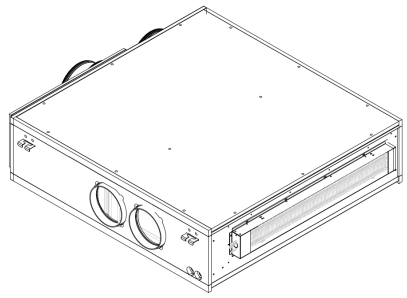


Figure 20. Unit Dimensions (Top View)

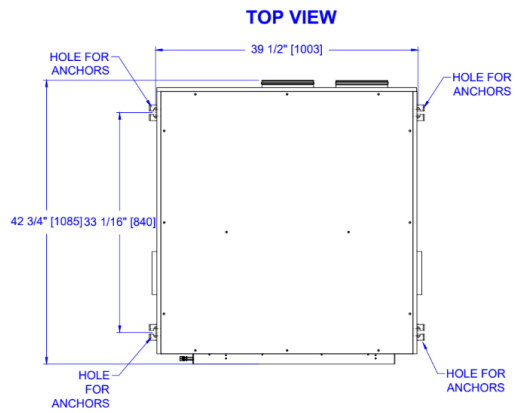


Figure 21. Unit Dimensions (Left View)

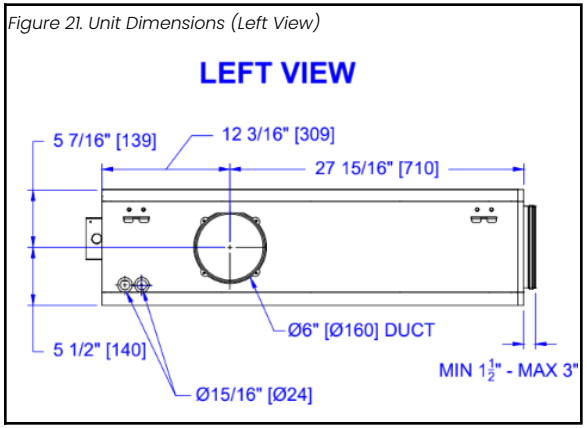


Figure 22. Unit Dimensions (Front View)

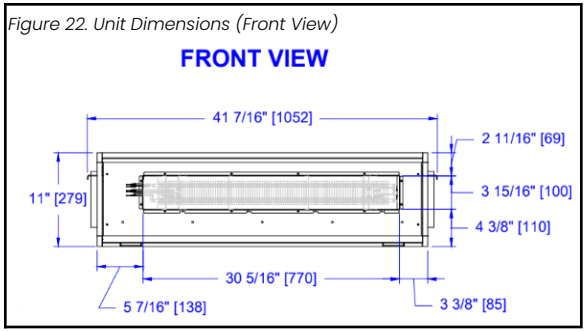


Figure 23. Unit Dimensions (Right View)

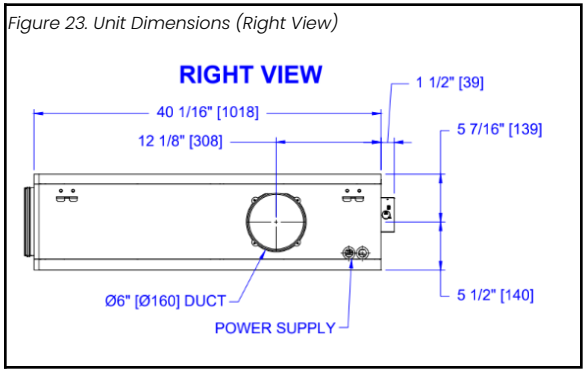


Figure 24. Unit Dimensions (Bottom View)

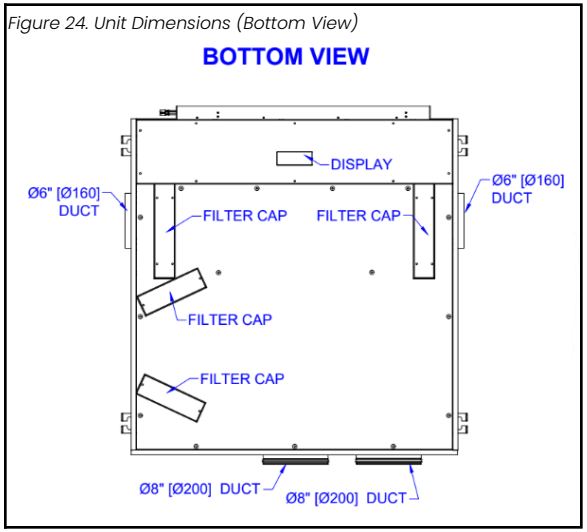
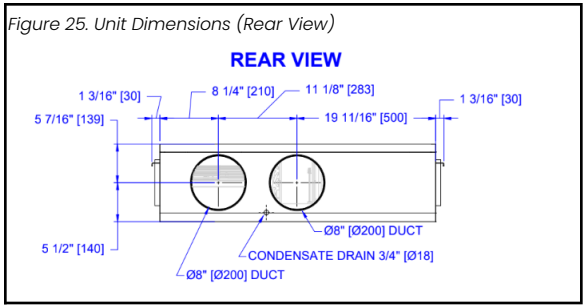


Figure 25. Unit Dimensions (Rear View)



9. WARRANTY

9.1 Basic coverage

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

9.2 Optional extended coverage

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

9.3 Validation requirements

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

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

For detailed terms and conditions, click the link below:

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

10. SUBMITTALS

10.1 115V Heat pump only - High Performance

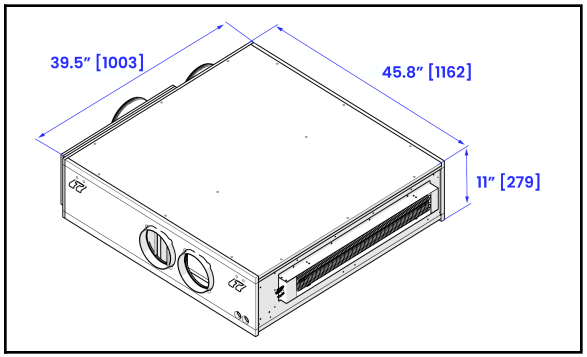
AIO® CEILING DUCTED 115V - NO ELECTRIC HEAT STRIP -R32 - SUBMITTAL (ADP10N3H1)

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

General Features

- BLDC inverter compressor
- ECM fans
- R32 Refrigerant
- Auto restart
- Intelligent defrost
- No outdoor unit
- 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	23
Maximum Overcurrent Protection (A)	35
Max Power Input (amps) Cooling	19.1
Max Power Input (amps) Heating	19.1

Included	Wall Controllers + Gateways	
☐	Wireless Remote	WRCH20
☐	Recessed Touch Controller	RTCH20
☐	Advanced TFT Controller with 7-Day program	TFTH20
☐	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 - High Performance

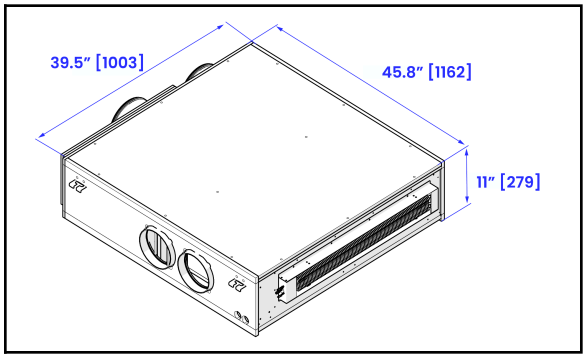
AIO® CEILING DUCTED 115V + 900W ELECTRIC HEAT - R32 - SUBMITTAL (ADE10N3H1)

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
- 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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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	31
Maximum Overcurrent Protection (A)	40
Max Power Input (amps) Cooling	19.1
Max Power Input (amps) Heating	27.3

Included	Wall Controllers + Gateways	
☐	Wireless Remote	WRCH20
☐	Recessed Touch Controller	RTCH20
☐	Advanced TFT Controller with 7-Day program	TFTH20
☐	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 only - High Performance

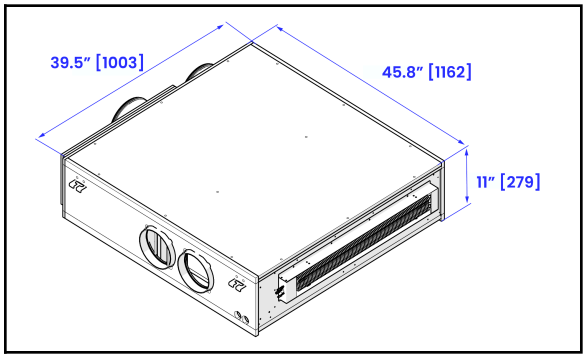
AIO® CEILING DUCTED 230V - NO ELECTRIC HEAT STRIP -R32 - SUBMITTAL (ADP10N3H2)

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

General Features

- BLDC inverter compressor
- ECM fans
- R32 Refrigerant
- Auto restart
- Intelligent defrost
- No outdoor unit
- 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)		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	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	8.6
Max Power Input (amps) Heating	8.6

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.

10.4 230V Heat pump + 1,800W elec heat - High Performance

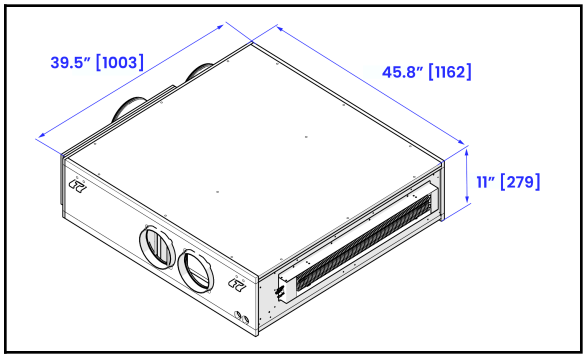
AIO® CEILING DUCTED 230V + 1800W ELECTRIC HEAT - R32 - SUBMITTAL (ADK10N3H2)

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
- 900/1800W Electric heat supplement
- 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	230V/1Ph/60Hz
Voltage Range	180-253
Running Amps Cooling	4.1
Running Amps Heating	5.0
MCA	18
Maximum Overcurrent Protection (A)	20
Max Power Input (amps) Cooling	8.6
Max Power Input (amps) Heating	16.4

Included	Wall Controllers + Gateways	
☐	Wireless Remote	WRCH20
☐	Recessed Touch Controller	RTCH20
☐	Advanced TFT Controller with 7-Day program	TFTH20
☐	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 - High Performance

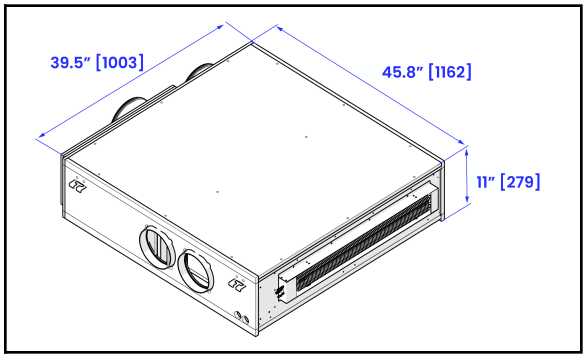
AIO® CEILING DUCTED - 230V + 2,700W ELEC. HEAT - R32 - SUBMITTAL (ADL10N3H2)

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, 1,800W or 2,700W electric heat supplement
- 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	230V/1Ph/60Hz
Voltage Range	180-253
Running Amps Cooling	4.1
Running Amps Heating	5.0
MCA	22
Maximum Overcurrent Protection (A)	25
Max Power Input (amps) Cooling	8.6
Max Power Input (amps) Heating	20.3

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.

10.6 115V Heat pump only - Energy Star Compliant

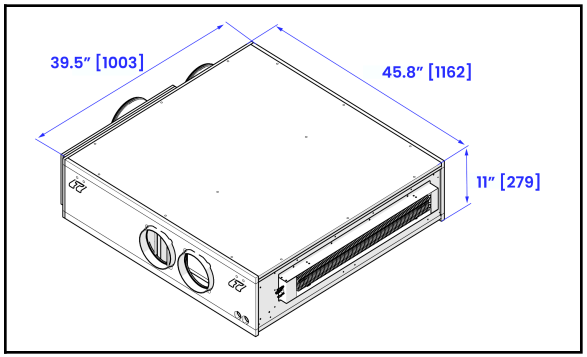
AIO® CEILING DUCTED 115V - NO ELECTRIC HEAT STRIP -R32 - SUBMITTAL (ADP09N3H1)

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

General Features

- BLDC inverter compressor
- ECM fans
- R32 Refrigerant
- Auto restart
- Intelligent defrost
- No outdoor unit
- 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	115V/1Ph/60Hz
Voltage Range	103-127
Running Amps Cooling	8.2
Running Amps Heating	10.0
MCA	23
Maximum Overcurrent Protection (A)	35
Max Power Input (amps) Cooling	19.1
Max Power Input (amps) Heating	19.1

Included	Wall Controllers + Gateways	
☐	Wireless Remote	WRCH20
☐	Recessed Touch Controller	RTCH20
☐	Advanced TFT Controller with 7-Day program	TFTH20
☐	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 115V Heat pump + elec heat - Energy Star Compliant

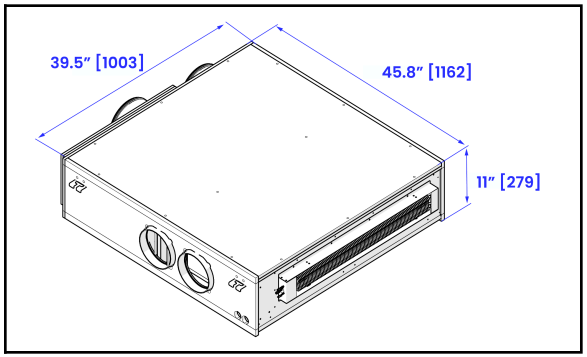
AIO® CEILING DUCTED 115V + 900W ELECTRIC HEAT - R32 - SUBMITTAL (ADE09N3H1)

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
- 900 Electric heat supplement
- 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	115V/1Ph/60Hz
Voltage Range	103-127
Running Amps Cooling	8.2
Running Amps Heating	10.0
MCA	31
Maximum Overcurrent Protection (A)	40
Max Power Input (amps) Cooling	19.1
Max Power Input (amps) Heating	27.3

Included	Wall Controllers + Gateways	
☐	Wireless Remote	WRCH20
☐	Recessed Touch Controller	RTCH20
☐	Advanced TFT Controller with 7-Day program	TFTH20
☐	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 230V Heat pump only - Energy Star Compliant

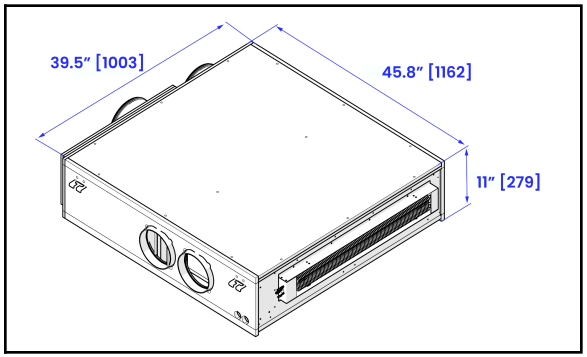
AIO® CEILING DUCTED 230V - NO ELECTRIC HEAT STRIP -R32 - SUBMITTAL (ADP09N3H2)

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

General Features

- BLDC inverter compressor
- ECM fans
- R32 Refrigerant
- Auto restart
- Intelligent defrost
- No outdoor unit
- 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	11
Maximum Overcurrent Protection (A)	15
Max Power Input (amps) Cooling	8.6
Max Power Input (amps) Heating	8.6

Included	Wall Controllers + Gateways	
☐	Wireless Remote	WRCH20
☐	Recessed Touch Controller	RTCH20
☐	Advanced TFT Controller with 7-Day program	TFTH20
☐	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 230V Heat pump + 1,800W elec heat - Energy Star Compliant

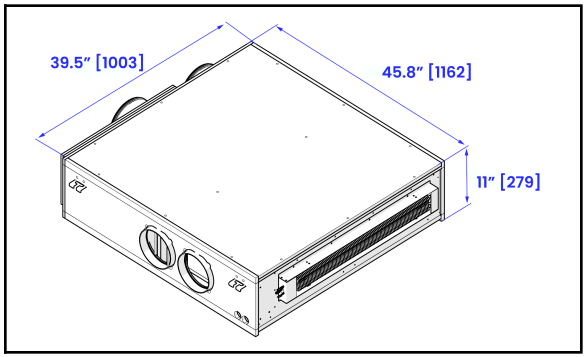
AIO® CEILING DUCTED 230V + 1800W ELECTRIC HEAT - R32 - SUBMITTAL (ADK09N3H2)

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
- 900/1800W Electric heat supplement
- 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.
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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
		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	18
Maximum Overcurrent Protection (A)	20
Max Power Input (amps) Cooling	8.6
Max Power Input (amps) Heating	16.4

Included	Wall Controllers + Gateways	
☐	Wireless Remote	WRCH20
☐	Recessed Touch Controller	RTCH20
☐	Advanced TFT Controller with 7-Day program	TFTH20
☐	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 + 2,700W elec heat - Energy Star Compliant

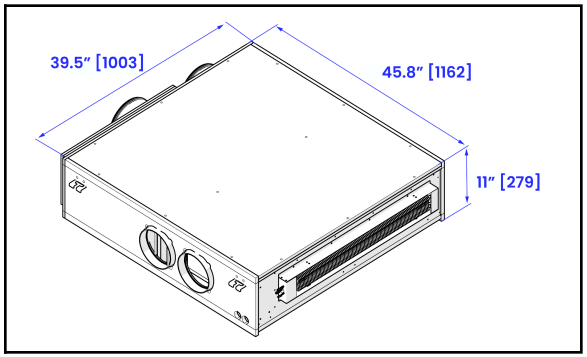
AIO® CEILING DUCTED - 230V - 2,700W ELEC. HEAT - R32 - SUBMITTAL (ADL09N3H2)

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, 1,800W or 2,700W electric heat supplement
- 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	22
Maximum Overcurrent Protection (A)	25
Max Power Input (amps) Cooling	8.6
Max Power Input (amps) Heating	20.3

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.

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

innova.co | **USA:** 216-710-1000 **Canada:** 416-739-1000

MADE IN ITALY

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Revised October 14, 2026

AIO® Ceiling Ducted Without ERV (Gen 3)
Product Data Sheet