AIO® Ceiling Suspended (without ERV option)

Product Data Sheet



innova

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Unitary Small HP
AHRI Standard 210/240

Intertek

ENERGY STAR

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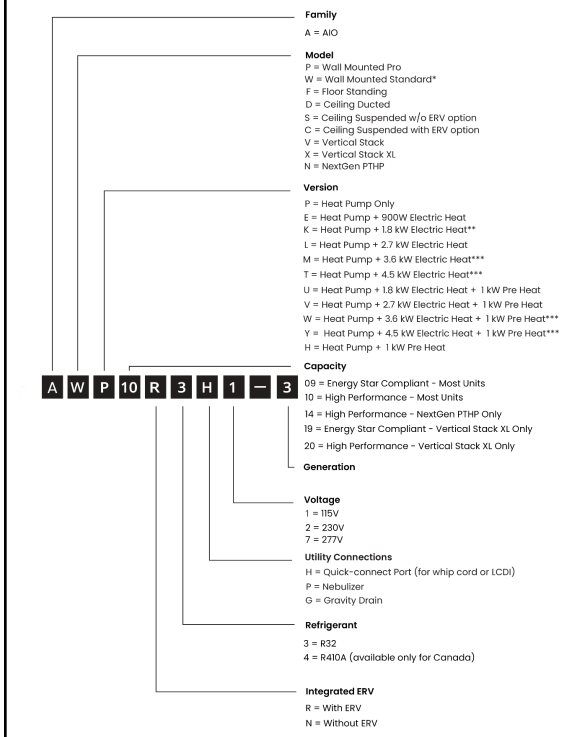
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MODEL NUMBER NOMENCLATURE

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

Figure 1. AIO® 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 Suspended without ERV option (R32) unit.

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

1.2 Annotation icons

Annotations are provided throughout this guide. It is essential to read each carefully and follow the instructions stated.

Indicates critical information for correct operation or installation.

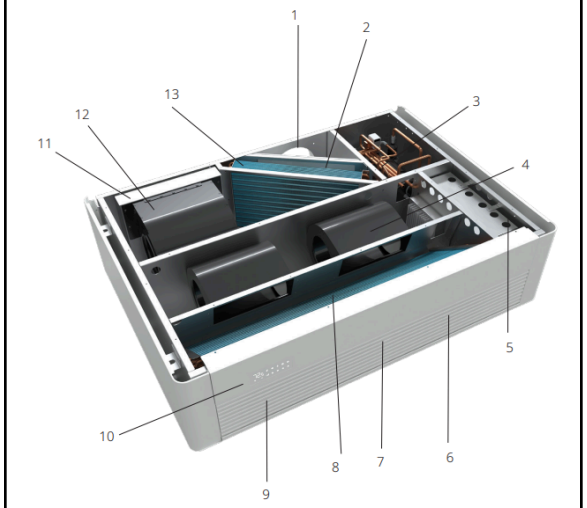
Indicates supplemental information, tips, or useful background information.

2. AIO® CEILING SUSPENDED - (WITHOUT ERV OPTION) OVERVIEW

AIO® Ceiling Suspended can be installed below a ceiling and is ideal for single or multi-room applications. With up to 0.45" WC (112 Pa) external static pressure, this unit can be used where ducting is required. Use with any interior grille and louver to provide additional design flexibility.

2.1 Components and structure

Figure 2. What's Inside



1	Condenser air intake	**8**	High-efficiency indoor coil
2	High efficiency outdoor coil	**9**	Bottom return
3	Twin rotary inverter compressor	**10**	Touch controller
4	ECM centrifugal supply fan	**11**	Condensate exhaust
5	Electrical controls	**12**	ECM condenser fan
6	Supply air grille	**13**	Condensate drain
7	Resistant heat strip		

2.2 Key features

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

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

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 needed. 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).

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

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

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

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

Minimal clearances and compact footprint
AIO®'s compact form does not use any line sets. This means that there is no need to access the sides of the unit. You can mount units with as little as 1.2" (30.5 mm) clearance on the sides.

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

Easy to service
The AIO® unit can be easily maintained and repaired from the front or bottom of the unit without having to remove the unit from the wall. An AIO® unit can also be quickly swapped with a replacement, reducing downtime.

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

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

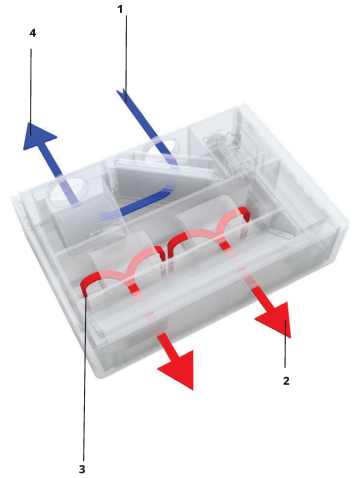
3.1 Airflow operation

The AIO® Ceiling Suspended unit is flexible in many ways. This flexibility enables AIO® Ceiling Suspended to be placed anywhere in a dwelling without restrictions.

- **Supply air**
  The supply air is through the fixed front louver.
- **Return air**
  The room air is returned to the unit through the integrated return air grille on the bottom of the unit.
- **Outside air intake**
  The single 6" (160 mm) round outside air intake connection provides air for the condenser portion. This can be ducted with up to 0.45" WC (112.1 Pa) external static pressure (combined between intake and exhaust).
- **Outside air exhaust**
  The single 6" (160 mm) round outside air exhaust connection is for the condenser portion. This can be ducted with up to 0.45" WC (112.1 Pa) external static pressure (combined between intake and exhaust).

3.2 Airflow diagram

Figure 3. Airflow

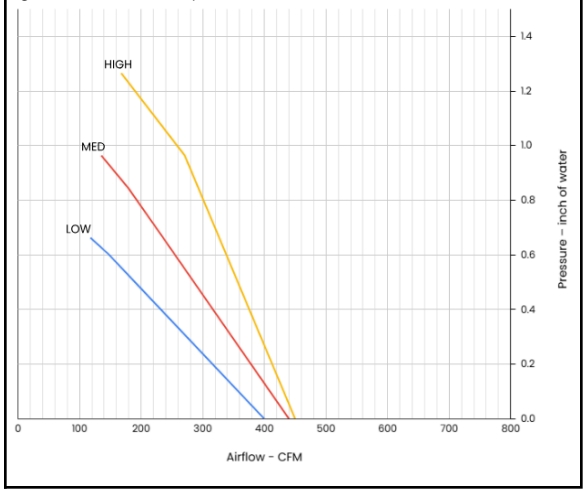


1	Outside air intake	**3**	Return air
2	Supply air	**4**	Outside air exhaust

3.3 Fan curves

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

Figure 4. Outdoor fan performance curves



4. INSTALLATION

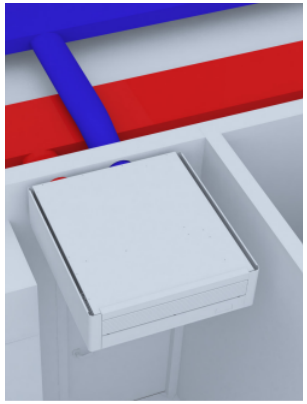
Figure 5. Installation



Figure 6. Ducted external vent and Direct existing window vent



Figure 7. 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 Low ambient heating configuration requirement

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

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

rE = Resistance heat mode

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

4.3 Ambient temperature protection

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

4.4 Site requirements

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

- Where practical, avoid installing the unit in a location exposed to direct sunlight. Solar heating may cause the room-air temperature sensor to detect a temperature higher than the actual room temperature, resulting in improper temperature control, unnecessary cooling operation, reduced heating output, and decreased energy efficiency.
- 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 60Hz, single phase, 115V or 208/230V in accordance with the model specified.
- All responsible parties must verify that the electrical supply is properly grounded, free of excessive electrical noise, and within the specified voltage and frequency limits before energizing the unit. Failure to correct power quality issues, including voltage instability or electrical noise, may result in equipment damage and will void the warranty for affected components.
- A properly installed condensate drain line.
- An internal condensate drain line is highly recommended.
- If using an externally run condensate line, note the following:
  - The line must be properly insulated.
  - The line must have a minimum slope of 30%.
  - If on a low floor, ensure that the end of the drain is above the maximum height of snow buildup.
- Interior clearances are only required to prevent vibrations. Leave at least 1.2" (30 mm) of clearance from any surface. All other clearances are dependent on the ducting.
- Approved louvers must be installed with best practices to ensure that no water enters the wall assembly.
- Use a digital level to confirm the unit is level with a slight pitch (of ⅛" per foot) towards the rear to allow the unit to drain properly.
- The unit must be attached to the ducts tightly, with zero leakage between the external ducts and the unit. If the wall is not plumb, use insulating material.
- The ceiling bracket must be properly affixed to studs or other supporting material.
- Unblocked vents on the exterior, with no obstacles within 36" (914 mm) of the air intake and discharge.

4.5 Outdoor air louver options

AIO® Ceiling Suspended 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.

4.6 Clearance requirements

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

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

Figure 8. Minimum installation distances

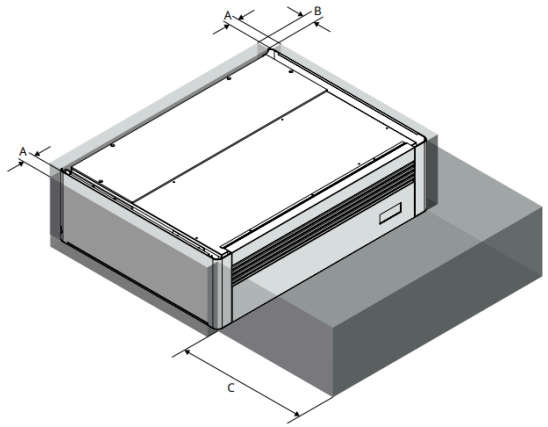
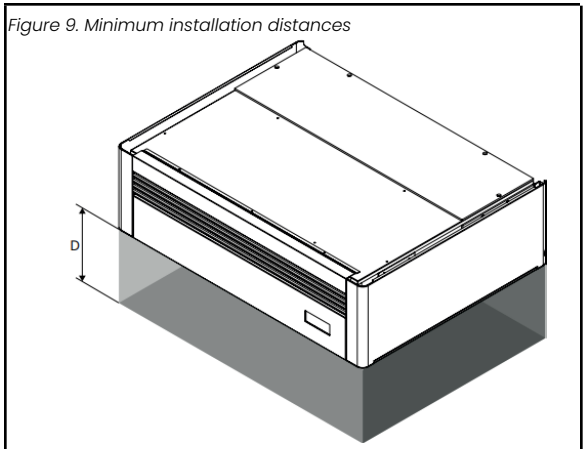


Figure 9. Minimum installation distances



Minimum distances

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

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

5. TECHNICAL SPECIFICATIONS

5.1 High Performance

5.1.1 Cooling

Table 1. High Performance - Cooling

Heat Pump			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	8.60	7.0
	Rated	EER2	10.55	8.90	7.25
	Seasonal	SEER2	13.85	-	-
Moisture Removal		Pts/h	1.8	2.0	2.2
		L/hr	0.9	0.9	1.0

Notes

(1) ID: 80°F(26.7°C), W.B. 67°F(19.4°C) | OD: 95°F(35°C), W.B. 75°F(23.9°C)
(2) ID: 80°F(26.7°C), W.B. 67°F(19.4°C)| OD: 105°F(40.6°C), W.B. 75°F(23.9°C)
(3) ID: 80°F(26.7°C), W.B. 67°F(19.4°C) | OD: 115°F(46.1°C), W.B. 75°F(23.9°C)
* This is the recommended capacity for sizing the unit to the space

5.1.2 Heating - Heat pump only

Table 2. High Performance - Heating

Heat Pump			47°F (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	1,086	1,062	1,013
	Rated		695	860	1,086	1,062	1,013
	Minimum		315	420	440	430	480
Efficiency	Maximum	COP	2.89	2.01	1.13	1.14	1.04
	Recommended*		3.48	2.83	1.68	1.64	1.61
	Rated		3.64	2.83	1.68	1.64	1.61
	Minimum		3.26	2.30	1.87	1.70	1.53
	Seasonal	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. 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	8.60	7.00
	Rated	EER2	11.56	8.90	7.25
	Seasonal	SEER2	15.3	-	-
Moisture Removal		Pts/h	1.8	2.0	2.2
		L/hr	0.9	0.9	1.0

Notes
(1) ID: 80°F(26.7°C), W.B. 67°F(19.4°C) | OD: 95°F(35°C), W.B. 75°F(23.9°C)
(2) ID: 80°F(26.7°C), W.B. 67°F(19.4°C)| OD: 105°F(40.6°C), W.B. 75°F(23.9°C)
(3) ID: 80°F(26.7°C), W.B. 67°F(19.4°C) | OD: 115°F(46.1°C), W.B. 75°F(23.9°C)
* This is the recommended capacity for sizing the unit to the space

5.2.2 Heating - Heat pump only

Table 4. Energy Star Compliant - Heating

Heat Pump			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		8,200	7,800	5,900	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	1,086	1,062	1,013
	Rated		640	804	988	1,062	1,013
	Minimum		315	420	440	430	480
Efficiency	Maximum	COP	2.89	2.01	1.13	1.14	1.04
	Recommended*		3.48	2.83	1.68	1.64	1.61
	Rated		3.76	2.84	1.75	1.64	1.61
	Minimum		3.26	2.30	1.87	1.70	1.53
	Seasonal	HSPF 2	9.2	-	-	-	-

Notes
(6) 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)
(7) 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)
(8) 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)
(9) ID: 70°F(21.1°C), W.B. 60°F(15.6°C) | OD: 0°F(-17.8°C)
(10) ID: 70°F(21.1°C), W.B. 60°F(15.6°C) | OD: -5°F(-20.6°C)
* This is the recommended capacity for sizing the unit to the space

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

5.3 Airflow

5.3.1 Indoor

Table 5. Airflow – Indoor

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

5.3.2 Outdoor

Table 6. Airflow – Outdoor

Air volume		
Outdoor	Type	ECM centrifugal
	CFM	385 - 638
	m^3/hr	654- 1084
	Available ESP	No ERV: 0.45" WC (112.1 Pa)
	Intake and Exhaust Connection	6" (160 mm) round
	Speeds	Low, med, high, auto

5.4 Sound

Table 7. Sound

Sound			
Location	Distance	Fan Speed	Sound Level (dB(A))
Indoor	1 m	Level 1 - Low	37
		Level 2 - Medium	47
		Level 3 - High	48
	3 m	Level 1 - Low	29
		Level 2 - Medium	39
		Level 3 - High	40
Outdoor	-	Range	28 - 56

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, heat, dehumidify, auto, fan only
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	Type	R32
	Charge	16.93 oz.
		0.48 kg
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		in	43.0 W x 32.4 D x 12.4 H
		mm	1093 W x 823 D x 314 H
Weight	Net	lb	156
		kg	70.8
	Gross	lb	165
		kg	75
Cabinet	Finish		RAL 9003 signal white
	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.

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	
Cooling (nominal)	A	8.2	4.1
Cooling (max)		19.1	9.0
Cooling - heat pump + ERV (max)		20.9	9.5
Heat Pump Only			
Heating - heat pump only (nom.)	A	10.0	5.0
Heating-heat pump only (max)		19.8	9.0
Heat Pump + 900W Elec Heat			
Heating-heat pump+ Elec Heat (nom.)	A	10.0	-
Heating-heat pump+ Elec Heat (max)		28.0	-
Heat Pump + 1800W Elec Heat			
Heating-heat pump+ Elec Heat (nom.)	A	-	5.0
Heating-heat pump+ Elec Heat (max)		-	16.8

5.6.2 Compressor

Table 15. Compressor

Compressor			115V	230V
Compressor	RLA	A	13.0	6.0
	LRA		13.0	6.0
Indoor ECM fan motor	Watts (max)	W	260	190
	FLA	A	3.4	1.2
	Power	HP	0.125	0.10
Outdoor ECM fan motor - heat pump only	Watts (max)	W	220	200
	FLA	A	2.8	1.4
	Power	HP	0.10	0.10

5.6.3 Circuit breakers

Table 16. Circuit breakers

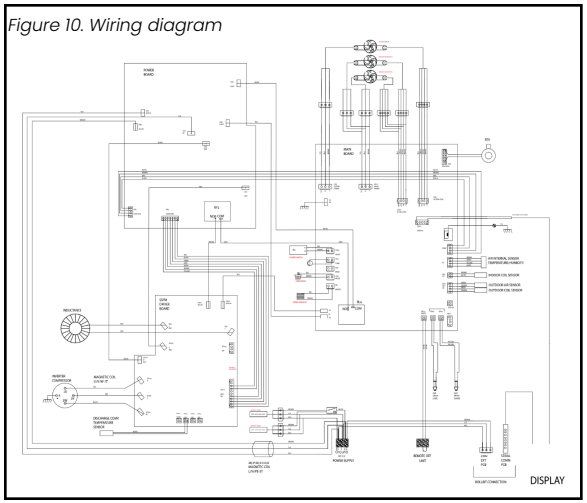
Circuit breakers			115V	230V
Heat Pump Only	MCA	A	24	11
	MOCP		35	15
Heat Pump + 900W Elec Heat	MCA	A	31	-
	MOCP		40	-
Heat Pump + 1,800W Elec Heat	MCA	A	-	19
	MOCP		-	20

6. WIRING DIAGRAM

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

AIO Ceiling Suspended (without ERV option) Wirin...

Figure 10. Wiring diagram



6.1 Notes

Table 17. Notes

Description			
Digital Inputs	CN13	Door	Presence contact for CP terminals (presence contact)
	CN14		Drain pump start level
	CN15		Drain alarm
Analog Inputs	ZE		Internal air quality sensor (placed on air inlet)
	HU		Internal air Humidity and temperature Probes (placed on air inlet)
	CN17	OT	External temperature probe (placed on external air inlet) NTC 5.28kΩ at 77°F (25°C)
	CN17	OPT	Condenser probe (placed on pipe of external coil) NTC 5.28kΩ at `77°F (25°C)
	CN7	IPT	Evaporator probe (placed on pipe internal coils) NTC 5.28kΩ at 77°F (25°C)
	CN16	GT	Exhaust air probe (placed on air exhaust) NTC 5.28kΩ at 77°F (25°C)
	XP209		Compressor discharge temperature probe NTC 58kΩ at 77°F (25°C)
Digital outputs	CN2	Valve	Summer/winter reversing valve
	CN1	Heater	External heater (230VAC/5A)
	CN4	Pump	Drain pump
Analog outputs	CN23	In fan	Driving signal 0-10V external fan
	CN9	Out fan con	Driving signal 0-10V external fan
	CN19	Step Motor	Driving a step motor for the damper
	CN10	Step Motor	Driving a step motor for the damper
	CN11	Display	Display touch connection

7. DIMENSIONS

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

AIO Ceiling Suspended (Without ERV option) Dim...

Figure 11. Dimensions

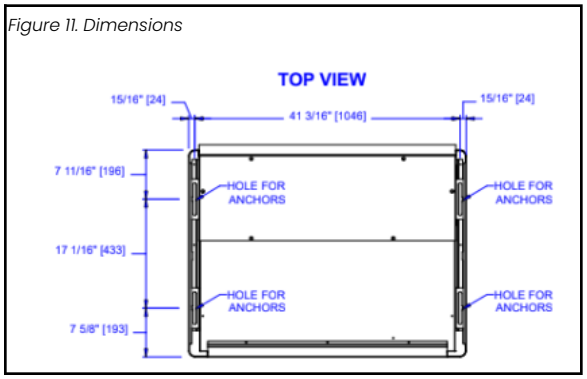


Figure 12. Dimensions

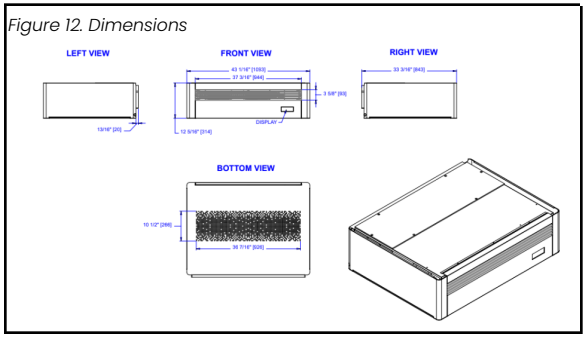
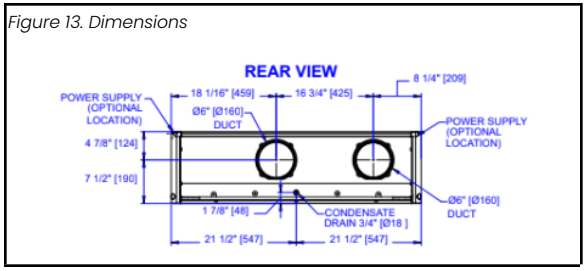


Figure 13. Dimensions



8. MOUNTING TEMPLATE

INNOVA provides a mounting template to facilitate the installation process.

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

AIO Ceiling Suspended (without ERV option) Tem...

Figure 14. Mounting template for Ceiling Anchors

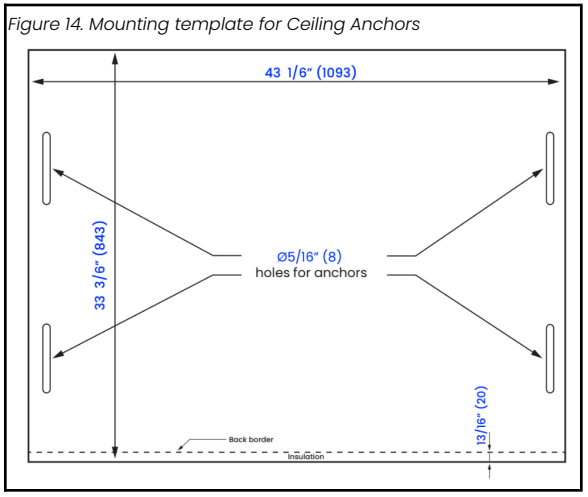
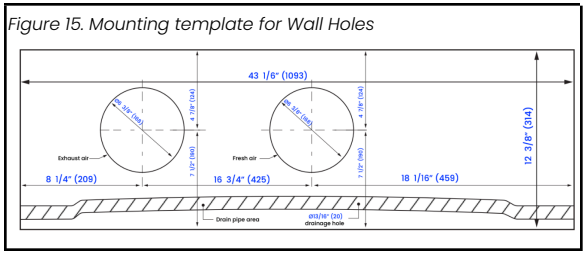


Figure 15. Mounting template for Wall Holes



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:O

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

10. SUBMITTALS

10.1 115V Heat pump only - High Performance

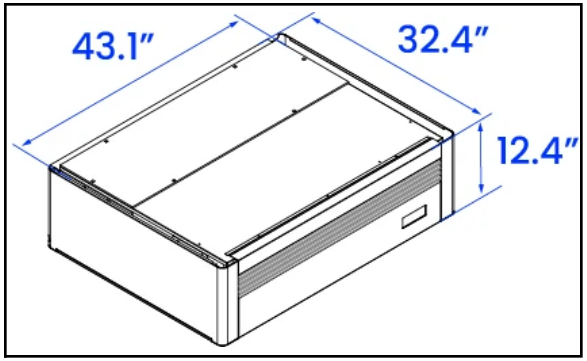
AIO® CEILING SUSPENDED W/O ERV OPTION - 115V - NO ELECTRIC HEAT STRIP - R32 - SUBMITTAL (ASP10N3H1)

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 filters
- Compact slim design
- 4 selectable fan speeds + Auto
- 10-Year limited warranty (after certification)
- Made in Italy

The installing contractor must contact INNOVA Customer Technical Support prior to installation to schedule an installation training overview.
This may be conducted in person or remotely (online). It is the official installation training and may include videos, best practices, and system requirements.
Performing installations without training may result in installation errors, performance issues, and possible warranty limitations.



Performance Specifications			
Cooling	Min-Max	BTU/H	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)	37 - 48
	Indoor: Low-High at 3 m distance		29 - 40
	Outdoor sound range		28 - 56
Moisture removal	Moisture removal	Pts/h	1.8
		L/hr	0.9
Airflow	Indoor	CFM	226 - 350
		m^3/hr	384 - 595
	Outdoor	CFM	385 - 638
		m^3/hr	654 - 1084

Electric Specifications	
Power Supply (V/Ph/Hz)	115V/1Ph/60Hz
Voltage Range	103-127
Running Amps Cooling	8.2
Running Amps Heating	10.0
MCA	24
Maximum Overcurrent Protection (A)	35
Max Power Input (amps) Cooling	19.1
Max Power Input (amps) Heating	19.8

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

10.2 115V Heat pump + elec heat - High Performance

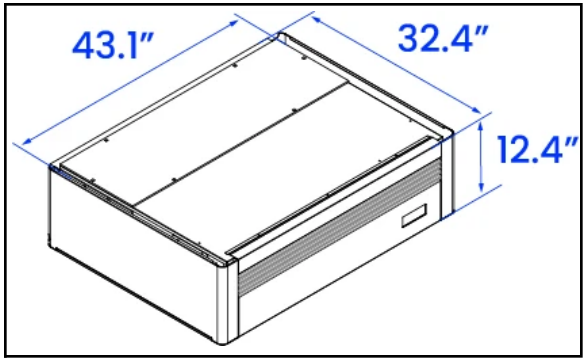
AIO® CEILING SUSPENDED W/O ERV OPTION - 115V - 900W ELECTRIC HEAT - R32 - SUBMITTAL (ASE10N3H1)

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
- 900W Electric heat supplement
- Auto restart
- Intelligent defrost
- No outdoor unit
- Onboard touch controller
- Washable filters
- Electronically controlled air louver
- Compact slim design
- 4 selectable fan speeds + Auto
- 10-Year limited warranty (after certification)
- Made in Italy

The installing contractor must contact INNOVA Customer Technical Support prior to installation to schedule an installation training overview.
This may be conducted in person or remotely (online). It is the official installation training and may include videos, best practices, and system requirements.
Performing installations without training may result in installation errors, performance issues, and possible warranty limitations.



Performance Specifications			
Cooling	Min-Max	BTU/H	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)	37 - 48
	Indoor: Low-High at 3 m distance		29 - 40
	Outdoor sound range		28 - 56
Moisture removal	Moisture removal	Pts/h	1.8
		L/hr	0.9
Airflow	Indoor	CFM	226 - 350
		m^3/hr	384 - 595
	Outdoor	CFM	385 - 638
		m^3/hr	654 - 1084

Electric Specifications	
Power Supply (V/Ph/Hz)	115V/1Ph/60Hz
Voltage Range	103-127
Running Amps Cooling	8.2
Running Amps Heating	10.0
MCA	31
Maximum Overcurrent Protection (A)	40
Max Power Input (amps) Cooling	19.1
Max Power Input (amps) Heating	28.0

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

10.3 230V Heat pump only - High Performance

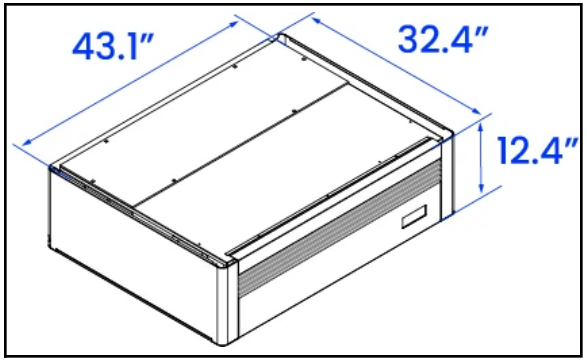
AIO® CEILING SUSPENDED W/O ERV OPTION - 230V - NO ELECTRIC HEAT STRIP - R32 - SUBMITTAL (ASP10N3H2)

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

General Features

- BLDC inverter compressor
- ECM fans
- MERV 13 filters on fresh air
- R32 Refrigerant
- Auto restart
- Intelligent defrost
- No outdoor unit
- Onboard touch controller
- Washable filters
- Compact slim design
- 4 selectable fan speeds + Auto
- 10-Year limited warranty (after certification)
- Made in Italy

The installing contractor must contact INNOVA Customer Technical Support prior to installation to schedule an installation training overview.
This may be conducted in person or remotely (online). It is the official installation training and may include videos, best practices, and system requirements.
Performing installations without training may result in installation errors, performance issues, and possible warranty limitations.



Performance Specifications			
Cooling	Min-Max	BTU/H	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)	37 - 48
	Indoor: Low-High at 3 m distance		29 - 40
	Outdoor sound range		28 - 56
Moisture removal	Moisture removal	Pts/h	1.8
		L/hr	0.9
Airflow	Indoor	CFM	226 - 350
		m^3/hr	384 - 595
	Outdoor	CFM	385 - 638
		m^3/hr	654 - 1084

Electric Specifications	
Power Supply (V/Ph/Hz)	230V/1Ph/60Hz
Voltage Range	180-253
Running Amps Cooling	4.1
Running Amps Heating	5.0
MCA	11
Maximum Overcurrent Protection (A)	15
Max Power Input (amps) Cooling	9.0
Max Power Input (amps) Heating	9.0

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

10.4 230V Heat pump + elec heat - High Performance

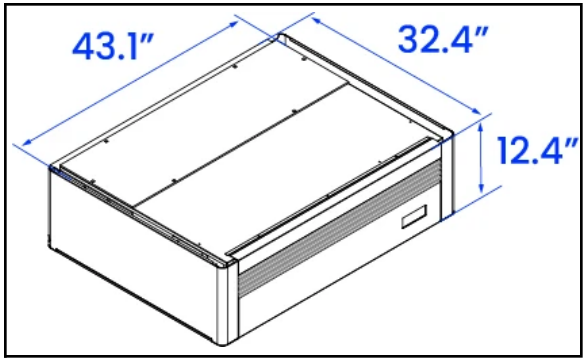
AIO® CEILING SUSPENDED W/O ERV OPTION - 230V - 1800W ELECTRIC HEAT - R32 - SUBMITTAL (ASK10N3H2)

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

General Features

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

The installing contractor must contact INNOVA Customer Technical Support prior to installation to schedule an installation training overview.
This may be conducted in person or remotely (online). It is the official installation training and may include videos, best practices, and system requirements.
Performing installations without training may result in installation errors, performance issues, and possible warranty limitations.



Performance Specifications			
Cooling	Min-Max	BTU/H	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)	37 - 48
	Indoor: Low-High at 3 m distance		29 - 40
	Outdoor sound range		28 - 56
Moisture removal	Moisture removal	Pts/h	1.8
		L/hr	0.9
Airflow	Indoor	CFM	226 - 350
		m^3/hr	384 - 595
	Outdoor	CFM	385 - 638
		m^3/hr	654 - 1084

Electric Specifications	
Power Supply (V/Ph/Hz)	230V/1Ph/60Hz
Voltage Range	180-253
Running Amps Cooling	4.1
Running Amps Heating	5.0
MCA	19
Maximum Overcurrent Protection (A)	20
Max Power Input (amps) Cooling	9.0
Max Power Input (amps) Heating	16.8

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

10.5 115V Heat pump only - Energy Star Compliant

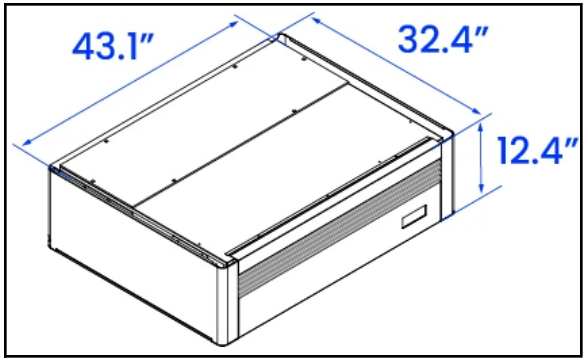
AIO® CEILING SUSPENDED W/O ERV OPTION - 115V - NO ELECTRIC HEAT STRIP - R32 - SUBMITTAL (ASP09N3H1)

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 filters
- Compact slim design
- 4 selectable fan speeds + Auto
- 10-Year limited warranty (after certification)
- Made in Italy

The installing contractor must contact INNOVA Customer Technical Support prior to installation to schedule an installation training overview.
This may be conducted in person or remotely (online). It is the official installation training and may include videos, best practices, and system requirements.
Performing installations without training may result in installation errors, performance issues, and possible warranty limitations.



Performance Specifications			
Cooling	Min-Max	BTU/H	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	3.76
Sound	Indoor: Low-High at 1 m distance	db(A)	37 - 48
	Indoor: Low-High at 3 m distance		29 - 40
	Outdoor sound range		28 - 56
Moisture removal	Moisture removal	Pts/h	1.8
		L/hr	0.9
Airflow	Indoor	CFM	226 - 350
		m^3/hr	384 - 595
	Outdoor	CFM	385 - 638
		m^3/hr	654 - 1084

Electric Specifications	
Power Supply (V/Ph/Hz)	115V/1Ph/60Hz
Voltage Range	103-127
Running Amps Cooling	8.2
Running Amps Heating	10.0
MCA	24
Maximum Overcurrent Protection (A)	35
Max Power Input (amps) Cooling	19.1
Max Power Input (amps) Heating	19.8

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

10.6 115V Heat pump + elec heat - Energy Star Compliant

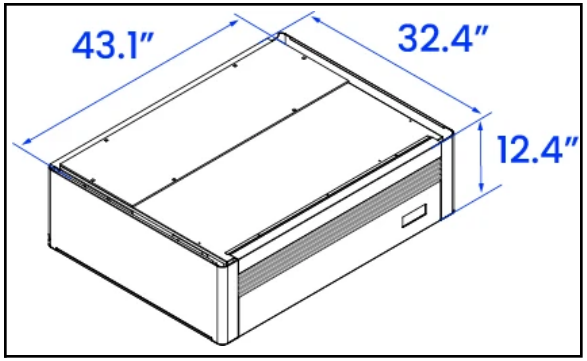
AIO® CEILING SUSPENDED W/O ERV OPTION - 115V - 900W ELECTRIC HEAT - R32 - SUBMITTAL (ASE09N3H1)

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
- 900W Electric heat supplement
- Auto restart
- Intelligent defrost
- No outdoor unit
- Onboard touch controller
- Washable filters
- Electronically controlled air louver
- Compact slim design
- 4 selectable fan speeds + Auto
- 10-Year limited warranty (after certification)
- Made in Italy

The installing contractor must contact INNOVA Customer Technical Support prior to installation to schedule an installation training overview.
This may be conducted in person or remotely (online). It is the official installation training and may include videos, best practices, and system requirements.
Performing installations without training may result in installation errors, performance issues, and possible warranty limitations.



Performance Specifications			
Cooling	Min-Max	BTU/H	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	3.76
Sound	Indoor: Low-High at 1 m distance	db(A)	37 - 48
	Indoor: Low-High at 3 m distance		29 - 40
	Outdoor sound range		28 - 56
Moisture removal	Moisture removal	Pts/h	1.8
		L/hr	0.9
Airflow	Indoor	CFM	226 - 350
		m^3/hr	384 - 595
	Outdoor	CFM	385 - 638
		m^3/hr	654 - 1084

Electric Specifications	
Power Supply (V/Ph/Hz)	115V/1Ph/60Hz
Voltage Range	103-127
Running Amps Cooling	8.2
Running Amps Heating	10.0
MCA	31
Maximum Overcurrent Protection (A)	40
Max Power Input (amps) Cooling	19.1
Max Power Input (amps) Heating	28.0

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

10.7 230V Heat pump only - Energy Star Compliant

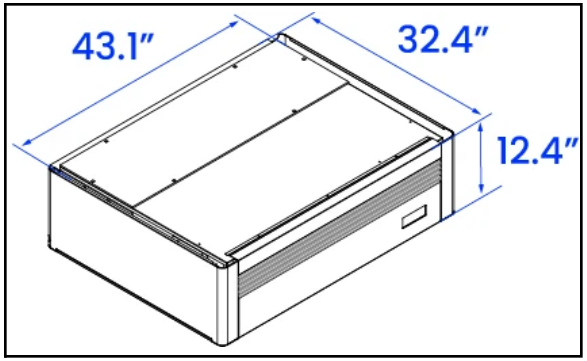
AIO® CEILING SUSPENDED W/O ERV OPTION - 230V - NO ELECTRIC HEAT STRIP - R32 - SUBMITTAL (ASP09N3H2)

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

General Features

- BLDC inverter compressor
- ECM fans
- MERV 13 filters on fresh air
- R32 Refrigerant
- Auto restart
- Intelligent defrost
- No outdoor unit
- Onboard touch controller
- Washable filters
- Compact slim design
- 4 selectable fan speeds + Auto
- 10-Year limited warranty (after certification)
- Made in Italy

The installing contractor must contact INNOVA Customer Technical Support prior to installation to schedule an installation training overview.
This may be conducted in person or remotely (online). It is the official installation training and may include videos, best practices, and system requirements.
Performing installations without training may result in installation errors, performance issues, and possible warranty limitations.



Performance Specifications			
Cooling	Min-Max	BTU/H	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	3.76
Sound	Indoor: Low-High at 1 m distance	db(A)	37 - 48
	Indoor: Low-High at 3 m distance		29 - 40
	Outdoor sound range		28 - 56
Moisture removal	Moisture removal	Pts/h	1.8
		L/hr	0.9
Airflow	Indoor	CFM	226 - 350
		m^3/hr	384 - 595
	Outdoor	CFM	385 - 638
		m^3/hr	654 - 1084

Electric Specifications	
Power Supply (V/Ph/Hz)	230V/1Ph/60Hz
Voltage Range	180-253
Running Amps Cooling	4.1
Running Amps Heating	5.0
MCA	11
Maximum Overcurrent Protection (A)	15
Max Power Input (amps) Cooling	9.0
Max Power Input (amps) Heating	9.0

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

10.8 230V Heat pump + elec heat - Energy Star Compliant

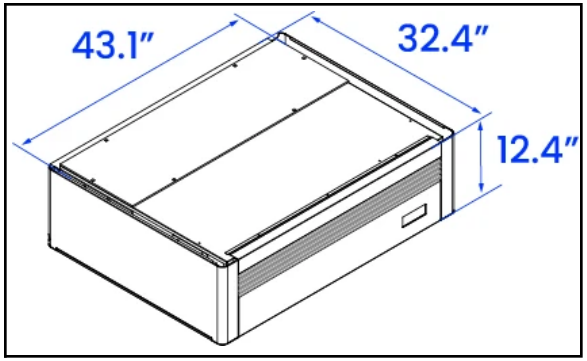
AIO® CEILING SUSPENDED W/O ERV OPTION - 230V - 1800W ELECTRIC HEAT - R32 - SUBMITTAL (ASK09N3H2)

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

General Features

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

The installing contractor must contact INNOVA Customer Technical Support prior to installation to schedule an installation training overview.
This may be conducted in person or remotely (online). It is the official installation training and may include videos, best practices, and system requirements.
Performing installations without training may result in installation errors, performance issues, and possible warranty limitations.



Performance Specifications			
Cooling	Min-Max	BTU/H	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	3.76
Sound	Indoor: Low-High at 1 m distance	db(A)	37 - 48
	Indoor: Low-High at 3 m distance		29 - 40
	Outdoor sound range		28 - 56
Moisture removal	Moisture removal	Pts/h	1.8
		L/hr	0.9
Airflow	Indoor	CFM	226 - 350
		m^3/hr	384 - 595
	Outdoor	CFM	385 - 638
		m^3/hr	654 - 1084

Electric Specifications	
Power Supply (V/Ph/Hz)	230V/1Ph/60Hz
Voltage Range	180-253
Running Amps Cooling	4.1
Running Amps Heating	5.0
MCA	19
Maximum Overcurrent Protection (A)	20
Max Power Input (amps) Cooling	9.0
Max Power Input (amps) Heating	16.8

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

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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MADE IN ITALY

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AIO® Ceiling Suspended (without ERV option)
Product Data Sheet