AIO® Ceiling Suspended (with ERV option)

Product Data Sheet



innova

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Unitary Small HP
AHRI Standard 210/240

Intertek

ENERGY STAR

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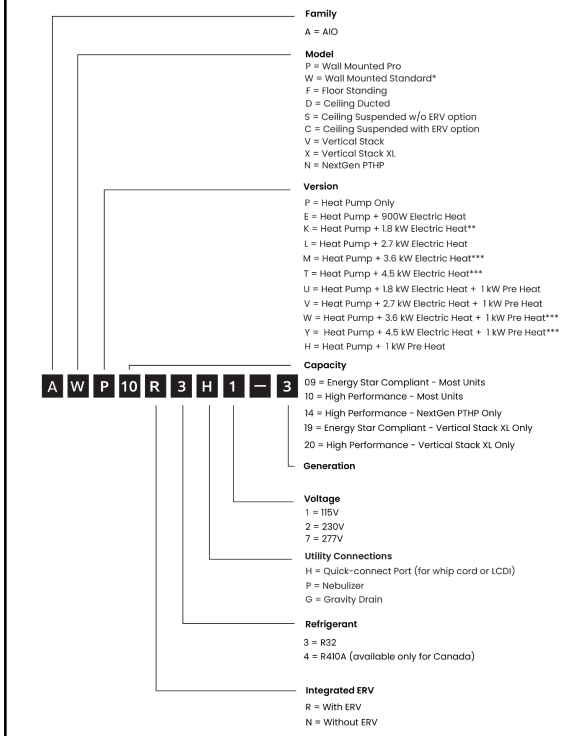
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MODEL NUMBER NOMENCLATURE

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 with ERV option unit.

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

1.2 Annotation icons

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

Indicates critical information for correct operation or installation.

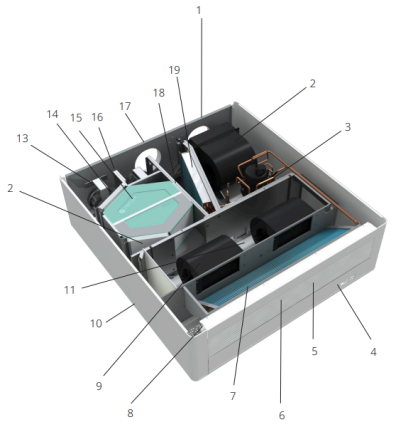
Indicates supplemental information, tips, or useful background information.

2. AIO® CEILING SUSPENDED (WITH ERV OPTION)

AIO® Ceiling Suspended can be installed below a ceiling and is ideal for single or multi-room applications. With up to 0.7" WC (174 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. AIO® Ceiling Suspended (with ERV option) components and structure



1	Condenser + stale air exhaust	**11**	Return air and stale air filters
2	ECM Condenser Fan	**12**	MERV 13 filter (not applicable for this unit)
3	Twin rotary inverter compressor	**13**	Fresh air ECM supply fan
4	Touch controller	**14**	MERV 13 filter
5	900/1800W electric heat strip	**15**	Hybrid recovery core
6	Supply air vent	**16**	Stale air ECM exhaust fan
7	High-efficiency indoor coil	**17**	Condenser + fresh air intake
8	Controllers	**18**	Condensate drain
9	EC supply fans	**19**	High efficiency outdoor coil
10	Return air on the bottom		

2.2 Key features

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

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

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

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

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

High-efficiency ECM fans with auto ESP
High-efficiency ECM fans enable efficient and quiet operation as the EC motor can ramp up or down as required. Automatically adjusted external static pressure ensures correct airflow.

Cold climate heat pump
The heat pump functions efficiently at outdoor air temperatures as low as 5°F (-15°C), and continues operating at colder temperatures below -5°F (-20.6°C).

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

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

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

No outside noise infiltration
AIO® Ceiling Suspended (with ERV option) has the lowest STC and OITC rating among comparable units. This means less outside noise intrudes into the room day and night.

Versatile on/off options
AIO®'s low voltage connection enables connection to any occupancy system, key-card, window sensors, fire alarms, etc.; as long as it can send a signal to AIO® via low voltage, the unit can be easily turned on or off.

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

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

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

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

3. AIRFLOW

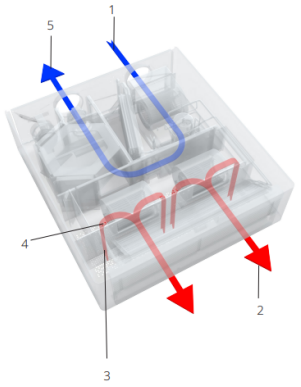
3.1 Airflow operation

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

- **Supply air**
  The supply air is through the fixed front louver.
- **Return air and stale air exhaust**
  The room air and exhaust air are returned to the unit through the integrated return air grille on the bottom of the unit.
- **Outside air intake**
  The single 8" (200 mm) round outside air intake connection provides air for the condenser portion and fresh air for the inside. This can be supported with an ERV (Optional) with up to 0.7" WC (174.4 Pa) external static pressure (combined between intake and exhaust).
- **Outside air exhaust**
  The single 8" (200 mm) round outside air exhaust connection is for the condenser portion and the stale air exhaust. This can be supported with an ERV (Optional) with up to 0.7" WC (174.4 Pa) external static pressure (combined between intake and exhaust).

3.2 Airflow diagram

Figure 3 Airflow diagram



1	Outside air intake	**4**	Stale air
2	Supply air	**5**	Outside air exhaust
3	Return air		

3.3 Fan curves

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

Figure 4. Outdoor fan performance curves

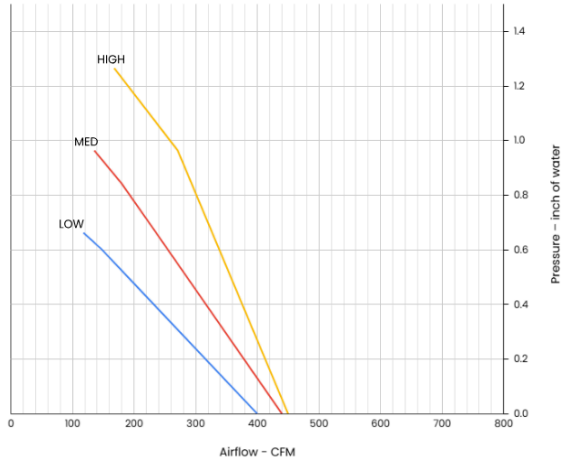
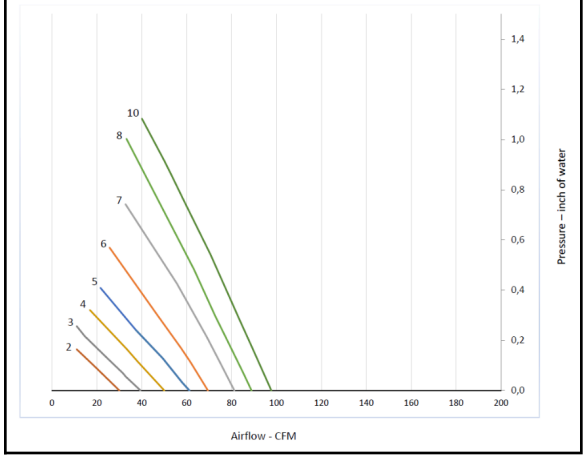


Figure 5. ERV fan performance curves



4. INSTALLATION REQUIREMENTS

Figure 6. Installation



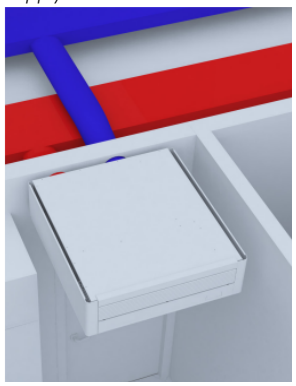
Figure 7. Ducted external vent



Figure 8. Direct existing window vent



Figure 9. 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).

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

4.4 Site requirements

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

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

- Always consult local and national electrical codes before installing the unit.
- Damage or premature failure of the quoted equipment resulting from improper voltage conditions, inadequate electrical service, or operating the equipment with excessive THD (Total Harmonic Distortion) levels will void the Manufacturer's warranty.
- Do not operate the unit in or near a construction or renovation site. Dust and debris can enter the unit, causing malfunctions and reduced performance.

- Voltage rating of 60 Hz, 115V or 208V/230V single phase.
- All responsible parties must verify that the electrical supply is properly grounded, free of excessive electrical noise, and within the specified voltage and frequency limits before energizing the unit. Failure to correct power quality issues, including voltage instability or electrical noise, may result in equipment damage and will void the warranty for affected components.
- An internal drain is highly recommended.
- If using an externally run condensate line, note the following:
  - The line must be properly insulated.
  - The line must have a minimum slope of 30%.
  - If on a low floor, ensure that the end of the drain is above the maximum height of snow buildup.
- Approved louvers installed with best practices to ensure no water enters the wall assembly.
- Correctly sized ductwork, installed properly, and balanced.
- 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.

- Interior clearances are required only to prevent vibration. Leave at least 1.2" (30.5 mm) of clearance from any surface. All other clearances are solely dependent on ducting.
- The unit must be tight to ducts, with zero leakage between the external ducts and the unit.
- The ceiling bracket is properly affixed to studs or other supporting material.
- Exterior vents must remain unblocked, with no obstacles within 36" (914 mm) of the air intake and discharge.

4.5 Outdoor air louver options

AIO® Ceiling Suspended (with ERV option) 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 10. Minimum installation distances

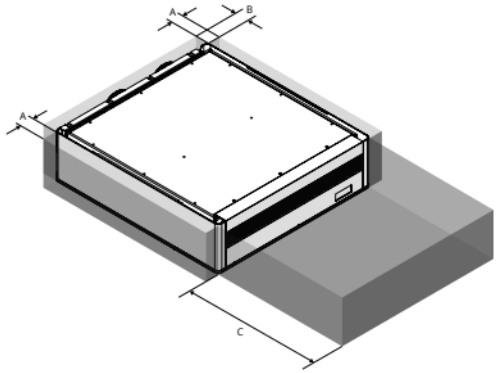
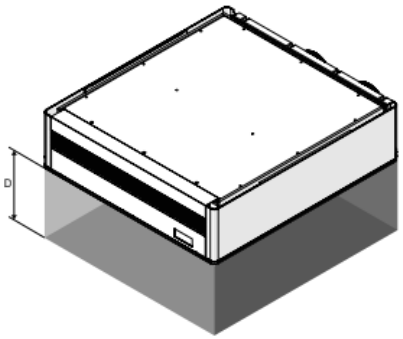


Figure 11. Minimum installation distances



Minimum distances

- **A:** 1.2 in (30 mm)
- **B:** 1.2 in (30 mm)
- **C:** 19.7 in (500 mm)
- **D:** 11.8 in (300 mm)

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

5. TECHNICAL SPECIFICATIONS

5.1 High Performance

5.1.1 Cooling

Table 1. High performance - Cooling

Heat Pump Only			95°F (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
	Recomm-ended*		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
	Recomm-ended*		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
	Recomm-ended*		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	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	8.60	7.00
	Rated	EER2	11.56	8.90	7.25
	Seasonal	SEER2	15.3	-	-
Moisture Removal		Pts/h	1.8	2.0	2.2
		L/hr	0.9	0.9	1.0

Notes

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

5.2.2 Heating - Heat pump only

Table 4. Energy Star compliant - Heating - Heat Pump Only

Heat Pump			47°F (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
	Recomm-ended*		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
	Recomm-ended*		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
	Recomm-ended*		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

(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	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	With ERV: 0.7" WC (174.4 Pa) No ERV: 0.45" WC (112.1 Pa)
	Intake and Exhaust Connection	8" (200 mm) round
	Speeds	Low, med, high, auto

5.4 Sound

Table 7. Sound

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

5.5 General

5.5.1 Controls

Table 8. General - Controls

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

5.5.2 Modes

Table 9. General - Modes

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

5.5.3 Condensate

Table 10. General - Condensate

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

5.5.4 Physical

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

Table 11. General - Physical

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

5.5.5 General

Table 12. General - Compressor

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

5.5.6 Insulation

Table 13: General - Insulation

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

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

5.6 ERV (Optional)

Table 14. ERV (Optional)

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

Table 15. ERV (Optional)

		40 CFM (68 m³/hr)	60 CFM (102 m³/hr)	80 CFM (136 m³/hr)
Efficiency of core in winter	Sensible	81.8%	78.2%	74.6%
	Latent	58.4%	54.7%	51.1%
Efficiency of core in summer	Sensible	80.6%	76.5%	72.5%
	Latent	57.5%	53.4%	49.3%
Filter	Indoor air	MERV 3 / optional MERV 13		
	Outside air	MERV 13	MERV 13	MERV 13
Leakage	Internal	2.6% at 0.40" WC (99.6 Pa)	2.4% at 0.40" WC (99.6 Pa)	2.2% at 0.40" WC (99.6 Pa)
	External	2.8% at 1.0" WC (249.1 Pa)	2.7% at 1.0" WC (249.1 Pa)	2.5% at 1.0" WC (249.1 Pa)

5.7 Electrical

5.7.1 General

Table 16. Electrical - General

General			115V	230V
Volt range			103 - 127	180-253
Hz/phase			60 Hz / single phase	
Power input connection			Hardwire	
Power factor			0.96	
Input power (standby)		W	10.8	
Input power (off mode)			1.5	
Cooling +ERV (nominal)		A	8.2	4.1
Cooling - heat pump + ERV (max)			20.9	9.5
Heat Pump Only				
Heating - heat pump +ERV (nom.)		A	10.0	5.0
Heating-heat pump + ERV (max)			20.9	9.5
Heat Pump + 900 W Elec Heat				
Heating-heat pump+ Elec Heat +ERV (nom.)		A	10.0	5.0
Heating-heat pump+ Elec Heat + ERV (max)			29.1	17.3
Heat Pump + 1800 W Elec Heat				
Heating-heat pump+ Elec Heat +ERV (nom.)		A	10.0	5.0
Heating-heat pump+ Elec Heat + ERV (max)			29.1	17.3

Table 17. Electrical - Circuit breakers

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

5.7.2 Motors

Table 18. Electrical - Motors

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

6. 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.

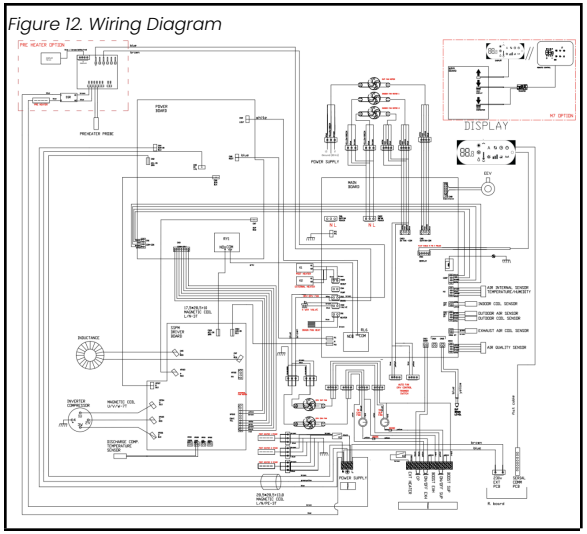
If the timer is set while Night mode is activated, the unit will switch off after the set time has passed, overriding the Night mode's timer.

7. WIRING DIAGRAM

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

AIO Ceiling Suspended (with ERV option) Wiring D...

Figure 12. Wiring Diagram



7.1 Notes

Table 19. Electric Heat Description

Electric Heat - 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

8. DIMENSIONS

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

AIO Ceiling Suspended (with ERV option) Dimensi...

Figure 13. Dimensions

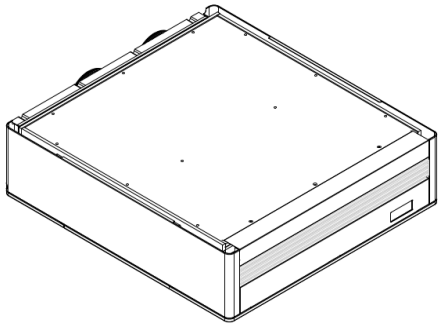


Figure 14. Top view

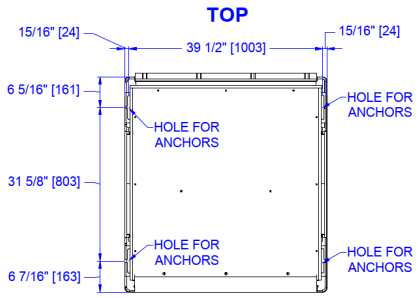


Figure 15. Left view

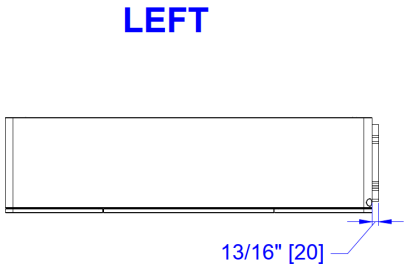


Figure 16. Front view

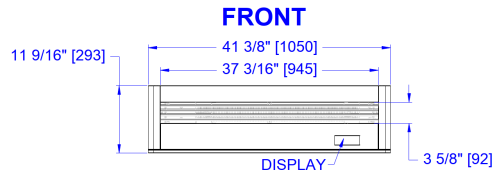


Figure 17. Right view

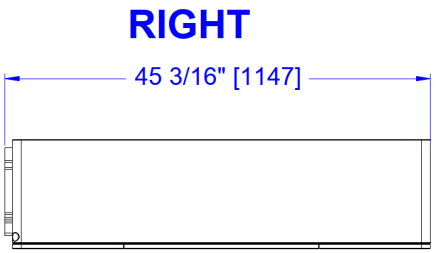


Figure 18. Bottom view

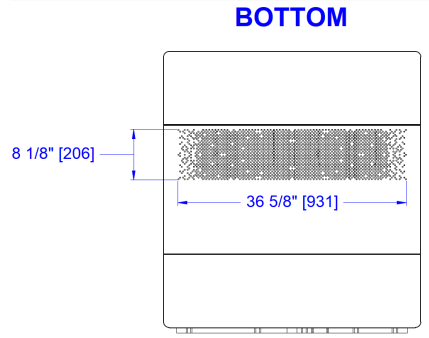
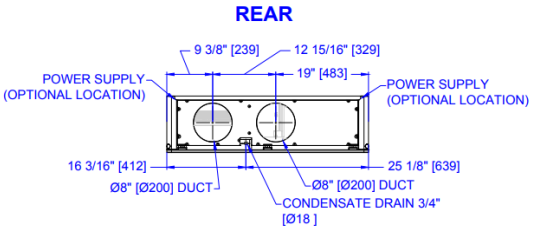


Figure 19. Rear view



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

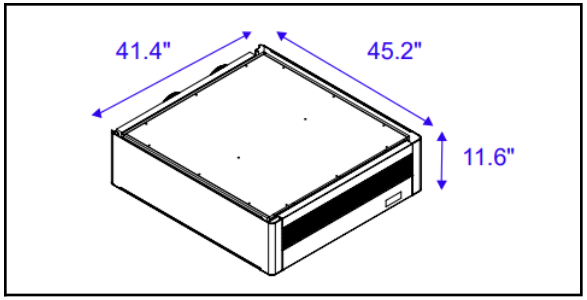
AIO® CEILING SUSPENDED WITH ERV OPTION - 115V - + ERV - NO ELECTRIC HEAT STRIP R32 -SUBMITTAL (ACP10R3H1)

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

General Features

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

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



Performance Specifications			
Cooling	Min-Max	BTU/H	3,100 - 15,000
	Rated capacity (95°F [35°C])		7,700
	Efficiency	EER2	10.55
Heating	Min-Max	BTU/H	3,500 - 14,000
	Rated capacity (47°F [8.3°C])		8,600
	Rated capacity (5°F [-15°C])		6,200
	Efficiency	COP	3.64
Sound	Indoor: Low-High at 1 m distance	db(A)	37 - 48
	Indoor: Low-High at 3 m distance		29 - 40
	Outdoor sound range		28 - 55
Moisture removal		Pts/h	1.8
		L/hr	0.9
Airflow	Indoor	CFM	226 - 350
		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	25
Maximum Overcurrent Protection (A)	35
Max Power Input (amps) Cooling	20.9
Max Power Input (amps) Heating	10.0

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

10.2 115V Heat pump + elec heat - High Performance

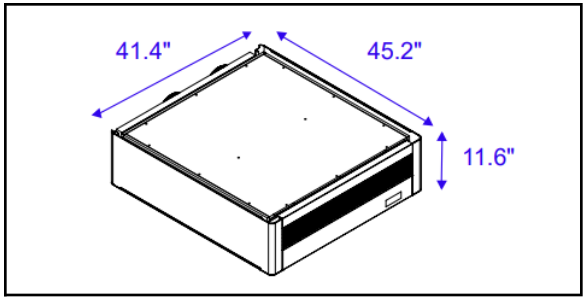
AIO® CEILING SUSPENDED WITH ERV OPTION - 115V - 900W ELECTRIC HEAT - R32 -+ ERV - SUBMITTAL (ACE10R3H1)

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

General Features

- BLDC inverter compressor
- ECM fans
- 900W Electric heat supplement
- Integrated ERV
- MERV 13 filters on fresh air
- R32 Refrigerant
- Auto restart
- Intelligent defrost
- No outdoor unit
- Onboard touch controller
- Washable filters
- 4 selectable fan speeds + Auto
- 10-Year limited warranty (after certification)
- Made in Italy

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



Performance Specifications			
Cooling	Min-Max	BTU/H	3,100 - 15,000
	Rated capacity (95°F [35°C])		7,700
	Efficiency	EER2	10.55
Heating	Min-Max	BTU/H	3,500 - 14,000
	Rated capacity (47°F [8.3°C])		8,600
	Rated capacity (5°F [-15°C])		6,200
	Efficiency	COP	3.64
Sound	Indoor: Low-High at 1 m distance	db(A)	37 - 48
	Indoor: Low-High at 3 m distance		29 - 40
	Outdoor sound range		28 - 55
Moisture removal		Pts/h	1.8
		L/hr	0.9
Airflow	Indoor	CFM	226 - 350
		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	33
Maximum Overcurrent Protection (A)	45
Max Power Input (amps) Cooling	20.9
Max Power Input (amps) Heating	29.1

Included	Wall Controllers + Gateways	
☐	Wireless Remote	WRCH20
☐	Basic Touch Controller	LTCH20
☐	Recessed Touch Controller	RTCH20
☐	Advanced TFT Controller with 7-Day program	TFTH20
☐	Wireless (AA Battery) Infrared Controller with 7-Day program	WIPT20
☐	Third Party Gateway	TPG015
☐	WiFi 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

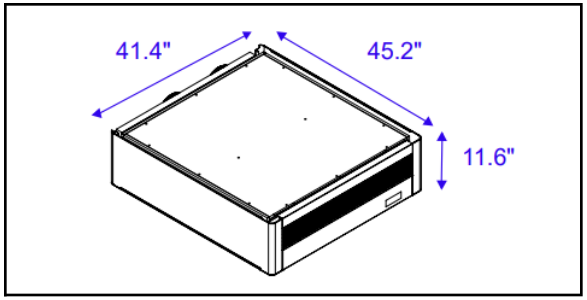
AIO® CEILING SUSPENDED WITH ERV OPTION - 230V - NO ELECTRIC HEAT STRIP - R32 -SUBMITTAL (ACP10R3H2)

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

General Features

- BLDC inverter compressor
- ECM fans
- Integrated ERV
- MERV 13 filters on fresh air
- R410A R32 Refrigerant
- Auto restart
- Intelligent defrost
- No outdoor unit
- Onboard touch controller
- Washable filters
- 4 selectable fan speeds + Auto
- 10-Year limited warranty (after certification)
- Made in Italy

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Performance Specifications			
Cooling	Min-Max	BTU/H	3,100 - 15,000
	Rated capacity (95°F [35°C])		7,700
	Efficiency	EER2	10.55
Heating	Min-Max	BTU/H	3,500 - 14,000
	Rated capacity (47°F [8.3°C])		8,600
	Rated capacity (5°F [-15°C])		6,200
	Efficiency	COP	3.64
Sound	Indoor: Low-High at 1 m distance	db(A)	37 - 48
	Indoor: Low-High at 3 m distance		29 - 40
	Outdoor sound range		28 - 55
Moisture removal		Pts/h	1.8
		L/hr	0.9
Airflow	Indoor	CFM	226 - 350
		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	9.5
Max Power Input (amps) Heating	9.5

Included	Wall Controllers + Gateways	
☐	Wireless Remote	WRCH20
☐	Basic Touch Controller	LTCH20
☐	Recessed Touch Controller	RTCH20
☐	Advanced TFT Controller with 7-Day program	TFTH20
☐	Wireless (AA Battery) Infrared Controller with 7-Day program	WIPT20
☐	Third Party Gateway	TPG015
☐	WiFi 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

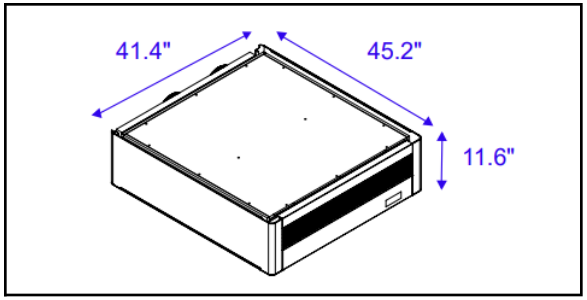
AIO® CEILING SUSPENDED WITH ERV OPTION - 230V + 1800W ELECTRIC HEAT + ERV - R32 -SUBMITTAL (ACK10R3H2)

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

General Features

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

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Performance Specifications			
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	Rated capacity (95°F [35°C])		7,700
	Efficiency	EER2	10.55
Heating	Min-Max	BTU/H	3,500 - 14,000
	Rated capacity (47°F [8.3°C])		8,600
	Rated capacity (5°F [-15°C])		6,200
	Efficiency	COP	3.64
Sound	Indoor: Low-High at 1 m distance	db(A)	37 - 48
	Indoor: Low-High at 3 m distance		29 - 40
	Outdoor sound range		28 - 55
Moisture removal		Pts/h	1.8
		L/hr	0.9
Airflow	Indoor	CFM	226 - 350
		m^3/hr	384 - 595
	Outdoor	CFM	385 - 639
		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	9.5
Max Power Input (amps) Heating	17.3

Included	Wall Controllers + Gateways	
☐	Wireless Remote	WRCH20
☐	Basic Touch Controller	LTCH20
☐	Recessed Touch Controller	RTCH20
☐	Advanced TFT Controller with 7-Day program	TFTH20
☐	Wireless (AA Battery) Infrared Controller with 7-Day program	WIPT20
☐	Third Party Gateway	TPG015
☐	WiFi 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 - High Performance

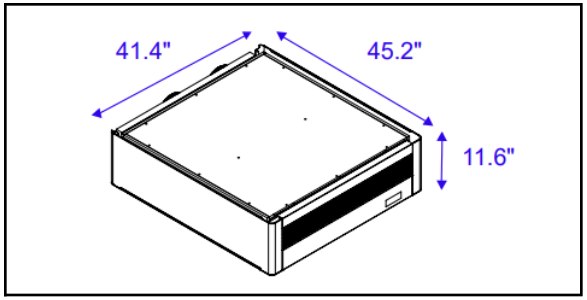
AIO® CEILING SUSPENDED WITH ERV OPTION - 115V - NO ELECTRIC HEAT STRIP R32 - NO ERV -SUBMITTAL (ACP10N3H1)

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

General Features

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

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



Performance Specifications			
Cooling	Min-Max	BTU/H	3,100 - 15,000
	Rated capacity (95°F [35°C])		7,700
	Efficiency	EER2	10.55
Heating	Min-Max	BTU/H	3,500 - 14,000
	Rated capacity (47°F [8.3°C])		8,600
	Rated capacity (5°F [-15°C])		6,200
	Efficiency	COP	3.64
Sound	Indoor: Low-High at 1 m distance	db(A)	37 - 48
	Indoor: Low-High at 3 m distance		29 - 40
	Outdoor sound range		28 - 55
Moisture removal		Pts/h	1.8
		L/hr	0.9
Airflow	Indoor	CFM	226 - 350
		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	25
Maximum Overcurrent Protection (A)	35
Max Power Input (amps) Cooling	20.9
Max Power Input (amps) Heating	10.0

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

10.6 115V Heat pump + elec heat - High Performance

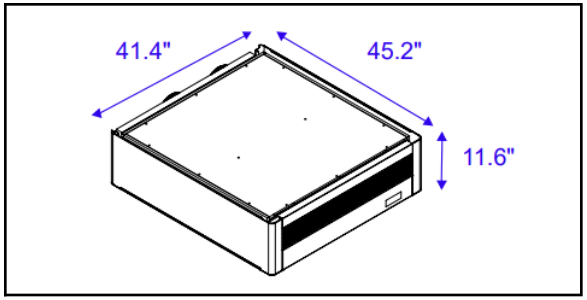
AIO® CEILING SUSPENDED WITH ERV OPTION - 115V - 900W ELECTRIC HEAT - NO ERV - R32 - SUBMITTAL (ACE10N3H1)

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

General Features

- BLDC inverter compressor
- ECM fans
- 900W Electric heat supplement
- MERV 13 filters on fresh air
- R32 Refrigerant
- Auto restart
- Intelligent defrost
- No outdoor unit
- Onboard touch controller
- Washable filters
- 4 selectable fan speeds + Auto
- 10-Year limited warranty (after certification)
- Made in Italy

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



Performance Specifications			
Cooling	Min-Max	BTU/H	3,100 - 15,000
	Rated capacity (95°F [35°C])		7,700
	Efficiency	EER2	10.55
Heating	Min-Max	BTU/H	3,500 - 14,000
	Rated capacity (47°F [8.3°C])		8,600
	Rated capacity (5°F [-15°C])		6,200
	Efficiency	COP	3.64
Sound	Indoor: Low-High at 1 m distance	db(A)	37 - 48
	Indoor: Low-High at 3 m distance		29 - 40
	Outdoor sound range		28 - 55
Moisture removal		Pts/h	1.8
		L/hr	0.9
Airflow	Indoor	CFM	226 - 350
		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	33
Maximum Overcurrent Protection (A)	45
Max Power Input (amps) Cooling	20.9
Max Power Input (amps) Heating	29.1

Included	Wall Controllers + Gateways	
☐	Wireless Remote	WRCH20
☐	Basic Touch Controller	LTCH20
☐	Recessed Touch Controller	RTCH20
☐	Advanced TFT Controller with 7-Day program	TFTH20
☐	Wireless (AA Battery) Infrared Controller with 7-Day program	WIPT20
☐	Third Party Gateway	TPG015
☐	WiFi 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 - High Performance

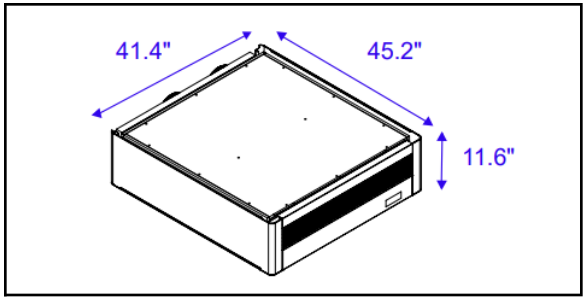
AIO® CEILING SUSPENDED WITH ERV OPTION - 230V - NO ELECTRIC HEAT STRIP - NO ERV - R32 -SUBMITTAL (ACP10N3H2)

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

General Features

- BLDC inverter compressor
- ECM fans
- MERV 13 filters on fresh air
- R410A R32 Refrigerant
- Auto restart
- Intelligent defrost
- No outdoor unit
- Onboard touch controller
- Washable filters
- 4 selectable fan speeds + Auto
- 10-Year limited warranty (after certification)
- Made in Italy

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



Performance Specifications			
Cooling	Min-Max	BTU/H	3,100 - 15,000
	Rated capacity (95°F [35°C])		7,700
	Efficiency	EER2	10.55
Heating	Min-Max	BTU/H	3,500 - 14,000
	Rated capacity (47°F [8.3°C])		8,600
	Rated capacity (5°F [-15°C])		6,200
	Efficiency	COP	3.64
Sound	Indoor: Low-High at 1 m distance	db(A)	37 - 48
	Indoor: Low-High at 3 m distance		29 - 40
	Outdoor sound range		28 - 55
Moisture removal		Pts/h	1.8
		L/hr	0.9
Airflow	Indoor	CFM	226 - 350
		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	9.5
Max Power Input (amps) Heating	9.5

Included	Wall Controllers + Gateways	
☐	Wireless Remote	WRCH20
☐	Basic Touch Controller	LTCH20
☐	Recessed Touch Controller	RTCH20
☐	Advanced TFT Controller with 7-Day program	TFTH20
☐	Wireless (AA Battery) Infrared Controller with 7-Day program	WIPT20
☐	Third Party Gateway	TPG015
☐	WiFi 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 - High Performance

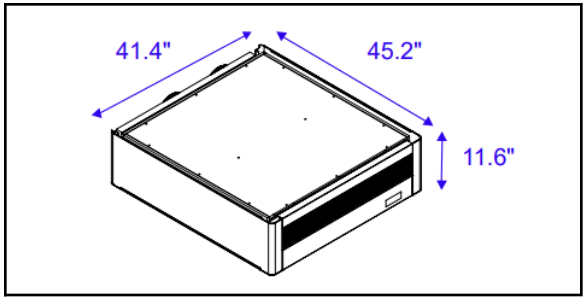
AIO® CEILING SUSPENDED WITH ERV OPTION - 230V + 1800W ELECTRIC HEAT - NO ERV - R32 -SUBMITTAL (ACK10N3H2)

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

General Features

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

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



Performance Specifications			
Cooling	Min-Max	BTU/H	3,100 - 15,000
	Rated capacity (95°F [35°C])		7,700
	Efficiency	EER2	10.55
Heating	Min-Max	BTU/H	3,500 - 14,000
	Rated capacity (47°F [8.3°C])		8,600
	Rated capacity (5°F [-15°C])		6,200
	Efficiency	COP	3.64
Sound	Indoor: Low-High at 1 m distance	db(A)	37 - 48
	Indoor: Low-High at 3 m distance		29 - 40
	Outdoor sound range		28 - 55
Moisture removal		Pts/h	1.8
		L/hr	0.9
Airflow	Indoor	CFM	226 - 350
		m^3/hr	384 - 595
	Outdoor	CFM	385 - 639
		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	9.5
Max Power Input (amps) Heating	17.3

Included	Wall Controllers + Gateways	
☐	Wireless Remote	WRCH20
☐	Basic Touch Controller	LTCH20
☐	Recessed Touch Controller	RTCH20
☐	Advanced TFT Controller with 7-Day program	TFTH20
☐	Wireless (AA Battery) Infrared Controller with 7-Day program	WIPT20
☐	Third Party Gateway	TPG015
☐	WiFi 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

10.9 115V Heat pump only - Energy Star Compliant

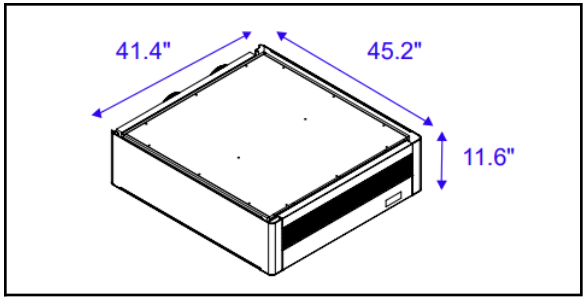
AIO® CEILING SUSPENDED WITH ERV OPTION - 115V - + ERV - NO ELECTRIC HEAT STRIP R32 -SUBMITTAL (ACP09R3H1)

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

General Features

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

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



Performance Specifications			
Cooling	Min-Max	BTU/H	3,100 - 15,000
	Rated capacity (95°F [35°C])		6,100
	Efficiency	EER2	11.56
Heating	Min-Max	BTU/H	3,500 - 14,000
	Rated capacity (47°F [8.3°C])		8,200
	Rated capacity (5°F [-15°C])		5,900
	Efficiency	COP	3.76
Sound	Indoor: Low-High at 1 m distance	db(A)	37 - 48
	Indoor: Low-High at 3 m distance		29 - 40
	Outdoor sound range		28 - 55
Moisture removal		Pts/h	1.8
		L/hr	0.9
Airflow	Indoor	CFM	226 - 350
		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	25
Maximum Overcurrent Protection (A)	35
Max Power Input (amps) Cooling	20.9
Max Power Input (amps) Heating	20.9

Included	Wall Controllers + Gateways	
☐	Wireless Remote	WRCH20
☐	Basic Touch Controller	LTCH20
☐	Recessed Touch Controller	RTCH20
☐	Advanced TFT Controller with 7-Day program	TFTH20
☐	Wireless (AA Battery) Infrared Controller with 7-Day program	WIPT20
☐	Third Party Gateway	TPG015
☐	WiFi 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

10.10 115V Heat pump + elec heat - Energy Star Compliant

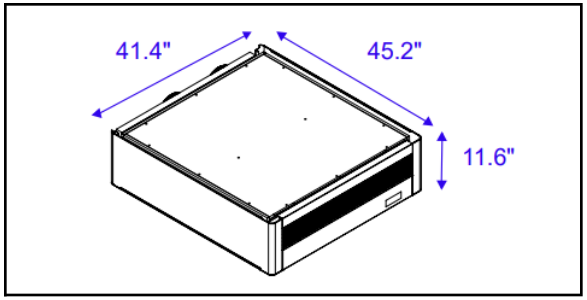
AIO® CEILING SUSPENDED WITH ERV OPTION - 115V - 900W ELECTRIC HEAT - R32 -+ ERV - SUBMITTAL (ACE09R3H1)

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

General Features

- BLDC inverter compressor
- ECM fans
- 900W Electric heat supplement
- Integrated ERV
- MERV 13 filters on fresh air
- R32 Refrigerant
- Auto restart
- Intelligent defrost
- No outdoor unit
- Onboard touch controller
- Washable filters
- 4 selectable fan speeds + Auto
- 10-Year limited warranty (after certification)
- Made in Italy

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



Performance Specifications			
Cooling	Min-Max	BTU/H	3,100 - 15,000
	Rated capacity (95°F [35°C])		6,100
	Efficiency	EER2	11.56
Heating	Min-Max	BTU/H	3,500 - 14,000
	Rated capacity (47°F [8.3°C])		8,200
	Rated capacity (5°F [-15°C])		5,900
	Efficiency	COP	3.76
Sound	Indoor: Low-High at 1 m distance	db(A)	37 - 48
	Indoor: Low-High at 3 m distance		29 - 40
	Outdoor sound range		28 - 55
Moisture removal		Pts/h	1.8
		L/hr	0.9
Airflow	Indoor	CFM	226 - 350
		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	33
Maximum Overcurrent Protection (A)	45
Max Power Input (amps) Cooling	20.9
Max Power Input (amps) Heating	29.1

Included	Wall Controllers + Gateways	
☐	Wireless Remote	WRCH20
☐	Basic Touch Controller	LTCH20
☐	Recessed Touch Controller	RTCH20
☐	Advanced TFT Controller with 7-Day program	TFTH20
☐	Wireless (AA Battery) Infrared Controller with 7-Day program	WIPT20
☐	Third Party Gateway	TPG015
☐	WiFi 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

10.11 230V Heat pump only - Energy Star Compliant

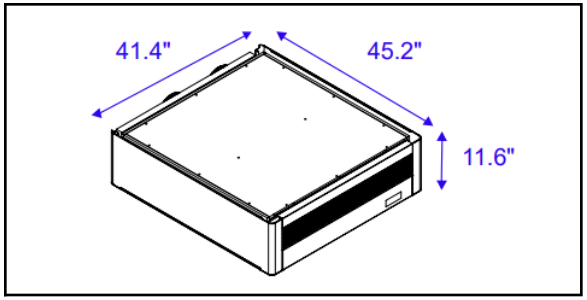
AIO® CEILING SUSPENDED WITH ERV OPTION - 230V - NO ELECTRIC HEAT STRIP - R32 -SUBMITTAL (ACP09R3H2)

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

General Features

- BLDC inverter compressor
- ECM fans
- Integrated ERV
- MERV 13 filters on fresh air
- R410A R32 Refrigerant
- Auto restart
- Intelligent defrost
- No outdoor unit
- Onboard touch controller
- Washable filters
- 4 selectable fan speeds + Auto
- 10-Year limited warranty (after certification)
- Made in Italy

The installing contractor must contact INNOVA Customer Technical Support prior to installation to schedule an installation training overview.
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Performance Specifications			
Cooling	Min-Max	BTU/H	3,100 - 15,000
	Rated capacity (95°F [35°C])		6,100
	Efficiency	EER2	11.56
Heating	Min-Max	BTU/H	3,500 - 14,000
	Rated capacity (47°F [8.3°C])		8,200
	Rated capacity (5°F [-15°C])		5,900
	Efficiency	COP	3.76
Sound	Indoor: Low-High at 1 m distance	db(A)	37 - 48
	Indoor: Low-High at 3 m distance		29 - 40
	Outdoor sound range		28 - 55
Moisture removal		Pts/h	1.8
		L/hr	0.9
Airflow	Indoor	CFM	226 - 350
		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	9.5
Max Power Input (amps) Heating	9.5

Included	Wall Controllers + Gateways	
☐	Wireless Remote	WRCH20
☐	Basic Touch Controller	LTCH20
☐	Recessed Touch Controller	RTCH20
☐	Advanced TFT Controller with 7-Day program	TFTH20
☐	Wireless (AA Battery) Infrared Controller with 7-Day program	WIPT20
☐	Third Party Gateway	TPG015
☐	WiFi 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

10.12 230V Heat pump + elec heat - Energy Star Compliant

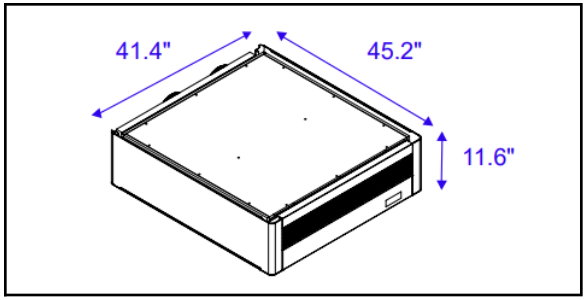
AIO® CEILING SUSPENDED WITH ERV OPTION - 230V + 1800W ELECTRIC HEAT + ERV - R32 -SUBMITTAL (ACK09R3H2)

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

General Features

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

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



Performance Specifications			
Cooling	Min-Max	BTU/H	3,100 - 15,000
	Rated capacity (95°F [35°C])		6,100
	Efficiency	EER2	11.56
Heating	Min-Max	BTU/H	3,500 - 14,000
	Rated capacity (47°F [8.3°C])		8,200
	Rated capacity (5°F [-15°C])		5,900
	Efficiency	COP	3.76
Sound	Indoor: Low-High at 1 m distance	db(A)	37 - 48
	Indoor: Low-High at 3 m distance		29 - 40
	Outdoor sound range		28 - 55
Moisture removal		Pts/h	1.8
		L/hr	0.9
Airflow	Indoor	CFM	226 - 350
		m^3/hr	384 - 595
	Outdoor	CFM	385 - 639
		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	9.5
Max Power Input (amps) Heating	17.3

Included	Wall Controllers + Gateways	
☐	Wireless Remote	WRCH20
☐	Basic Touch Controller	LTCH20
☐	Recessed Touch Controller	RTCH20
☐	Advanced TFT Controller with 7-Day program	TFTH20
☐	Wireless (AA Battery) Infrared Controller with 7-Day program	WIPT20
☐	Third Party Gateway	TPG015
☐	WiFi 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

10.13 115V Heat pump only - Energy Star Compliant

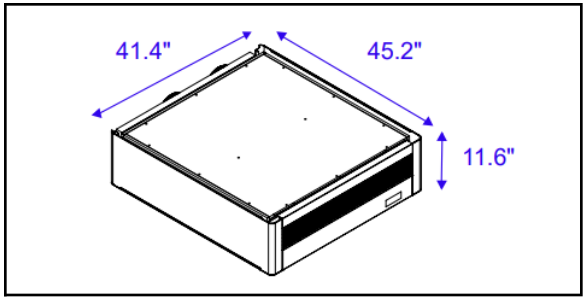
AIO® CEILING SUSPENDED WITH ERV OPTION - 115V - NO ERV - NO ELECTRIC HEAT STRIP R32 -SUBMITTAL (ACP09N3H1)

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

General Features

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

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



Performance Specifications			
Cooling	Min-Max	BTU/H	3,100 - 15,000
	Rated capacity (95°F [35°C])		6,100
	Efficiency	EER2	11.56
Heating	Min-Max	BTU/H	3,500 - 14,000
	Rated capacity (47°F [8.3°C])		8,200
	Rated capacity (5°F [-15°C])		5,900
	Efficiency	COP	3.76
Sound	Indoor: Low-High at 1 m distance	db(A)	37 - 48
	Indoor: Low-High at 3 m distance		29 - 40
	Outdoor sound range		28 - 55
Moisture removal		Pts/h	1.8
		L/hr	0.9
Airflow	Indoor	CFM	226 - 350
		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	25
Maximum Overcurrent Protection (A)	35
Max Power Input (amps) Cooling	20.9
Max Power Input (amps) Heating	20.9

Included	Wall Controllers + Gateways	
☐	Wireless Remote	WRCH20
☐	Basic Touch Controller	LTCH20
☐	Recessed Touch Controller	RTCH20
☐	Advanced TFT Controller with 7-Day program	TFTH20
☐	Wireless (AA Battery) Infrared Controller with 7-Day program	WIPT20
☐	Third Party Gateway	TPG015
☐	WiFi 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

10.14 115V Heat pump + elec heat - Energy Star Compliant

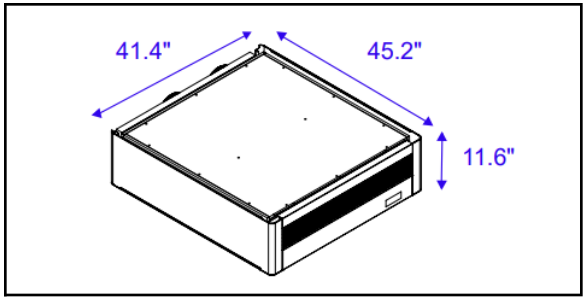
AIO® CEILING SUSPENDED WITH ERV OPTION - 115V - 900W ELECTRIC HEAT - NO ERV - R32 -+ ERV - SUBMITTAL (ACE09N3H1)

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

General Features

- BLDC inverter compressor
- ECM fans
- 900W Electric heat supplement
- MERV 13 filters on fresh air
- R32 Refrigerant
- Auto restart
- Intelligent defrost
- No outdoor unit
- Onboard touch controller
- Washable filters
- 4 selectable fan speeds + Auto
- 10-Year limited warranty (after certification)
- Made in Italy

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



Performance Specifications			
Cooling	Min-Max	BTU/H	3,100 - 15,000
	Rated capacity (95°F [35°C])		6,100
	Efficiency	EER2	11.56
Heating	Min-Max	BTU/H	3,500 - 14,000
	Rated capacity (47°F [8.3°C])		8,200
	Rated capacity (5°F [-15°C])		5,900
	Efficiency	COP	3.76
Sound	Indoor: Low-High at 1 m distance	db(A)	37 - 48
	Indoor: Low-High at 3 m distance		29 - 40
	Outdoor sound range		28 - 55
Moisture removal		Pts/h	1.8
		L/hr	0.9
Airflow	Indoor	CFM	226 - 350
		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	33
Maximum Overcurrent Protection (A)	45
Max Power Input (amps) Cooling	20.9
Max Power Input (amps) Heating	29.1

Included	Wall Controllers + Gateways	
☐	Wireless Remote	WRCH20
☐	Basic Touch Controller	LTCH20
☐	Recessed Touch Controller	RTCH20
☐	Advanced TFT Controller with 7-Day program	TFTH20
☐	Wireless (AA Battery) Infrared Controller with 7-Day program	WIPT20
☐	Third Party Gateway	TPG015
☐	WiFi 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

10.15 230V Heat pump only - Energy Star Compliant

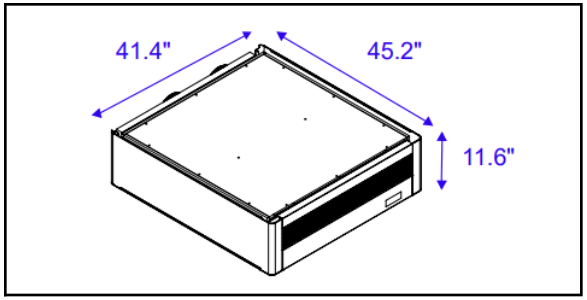
AIO® CEILING SUSPENDED WITH ERV OPTION - 230V - NO ERV - NO ELECTRIC HEAT STRIP - R32 -SUBMITTAL (ACP09N3H2)

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

General Features

- BLDC inverter compressor
- ECM fans
- Integrated ERV
- MERV 13 filters on fresh air
- R410A R32 Refrigerant
- Auto restart
- Intelligent defrost
- No outdoor unit
- Onboard touch controller
- Washable filters
- 4 selectable fan speeds + Auto
- 10-Year limited warranty (after certification)
- Made in Italy

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



Performance Specifications			
Cooling	Min-Max	BTU/H	3,100 - 15,000
	Rated capacity (95°F [35°C])		6,100
	Efficiency	EER2	11.56
Heating	Min-Max	BTU/H	3,500 - 14,000
	Rated capacity (47°F [8.3°C])		8,200
	Rated capacity (5°F [-15°C])		5,900
	Efficiency	COP	3.76
Sound	Indoor: Low-High at 1 m distance	db(A)	37 - 48
	Indoor: Low-High at 3 m distance		29 - 40
	Outdoor sound range		28 - 55
Moisture removal		Pts/h	1.8
		L/hr	0.9
Airflow	Indoor	CFM	226 - 350
		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	9.5
Max Power Input (amps) Heating	9.5

Included	Wall Controllers + Gateways	
☐	Wireless Remote	WRCH20
☐	Basic Touch Controller	LTCH20
☐	Recessed Touch Controller	RTCH20
☐	Advanced TFT Controller with 7-Day program	TFTH20
☐	Wireless (AA Battery) Infrared Controller with 7-Day program	WIPT20
☐	Third Party Gateway	TPG015
☐	WiFi 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

10.16 230V Heat pump + elec heat - Energy Star Compliant

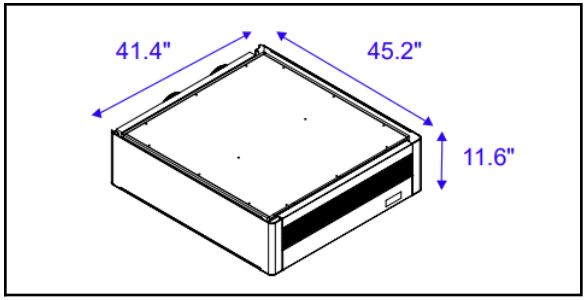
AIO® CEILING SUSPENDED WITH ERV OPTION - 230V + 1800W ELECTRIC HEAT - NO ERV - R32 -SUBMITTAL (ACK09N3H2)

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

General Features

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

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



Performance Specifications			
Cooling	Min-Max	BTU/H	3,100 - 15,000
	Rated capacity (95°F [35°C])		6,100
	Efficiency	EER2	11.56
Heating	Min-Max	BTU/H	3,500 - 14,000
	Rated capacity (47°F [8.3°C])		8,200
	Rated capacity (5°F [-15°C])		5,900
	Efficiency	COP	3.76
Sound	Indoor: Low-High at 1 m distance	db(A)	37 - 48
	Indoor: Low-High at 3 m distance		29 - 40
	Outdoor sound range		28 - 55
Moisture removal		Pts/h	1.8
		L/hr	0.9
Airflow	Indoor	CFM	226 - 350
		m^3/hr	384 - 595
	Outdoor	CFM	385 - 639
		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	9.5
Max Power Input (amps) Heating	17.3

Included	Wall Controllers + Gateways	
☐	Wireless Remote	WRCH20
☐	Basic Touch Controller	LTCH20
☐	Recessed Touch Controller	RTCH20
☐	Advanced TFT Controller with 7-Day program	TFTH20
☐	Wireless (AA Battery) Infrared Controller with 7-Day program	WIPT20
☐	Third Party Gateway	TPG015
☐	WiFi 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 (with ERV option)
Product Data Sheet