innova

Single Package Systems



Next Gen Heat Pumps



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AIO® – All-In-One Heat Pump and ERV with No Outdoor Unit **6**

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AIO®

All-In-One Heat Pump and ERV with No Outdoor Unit

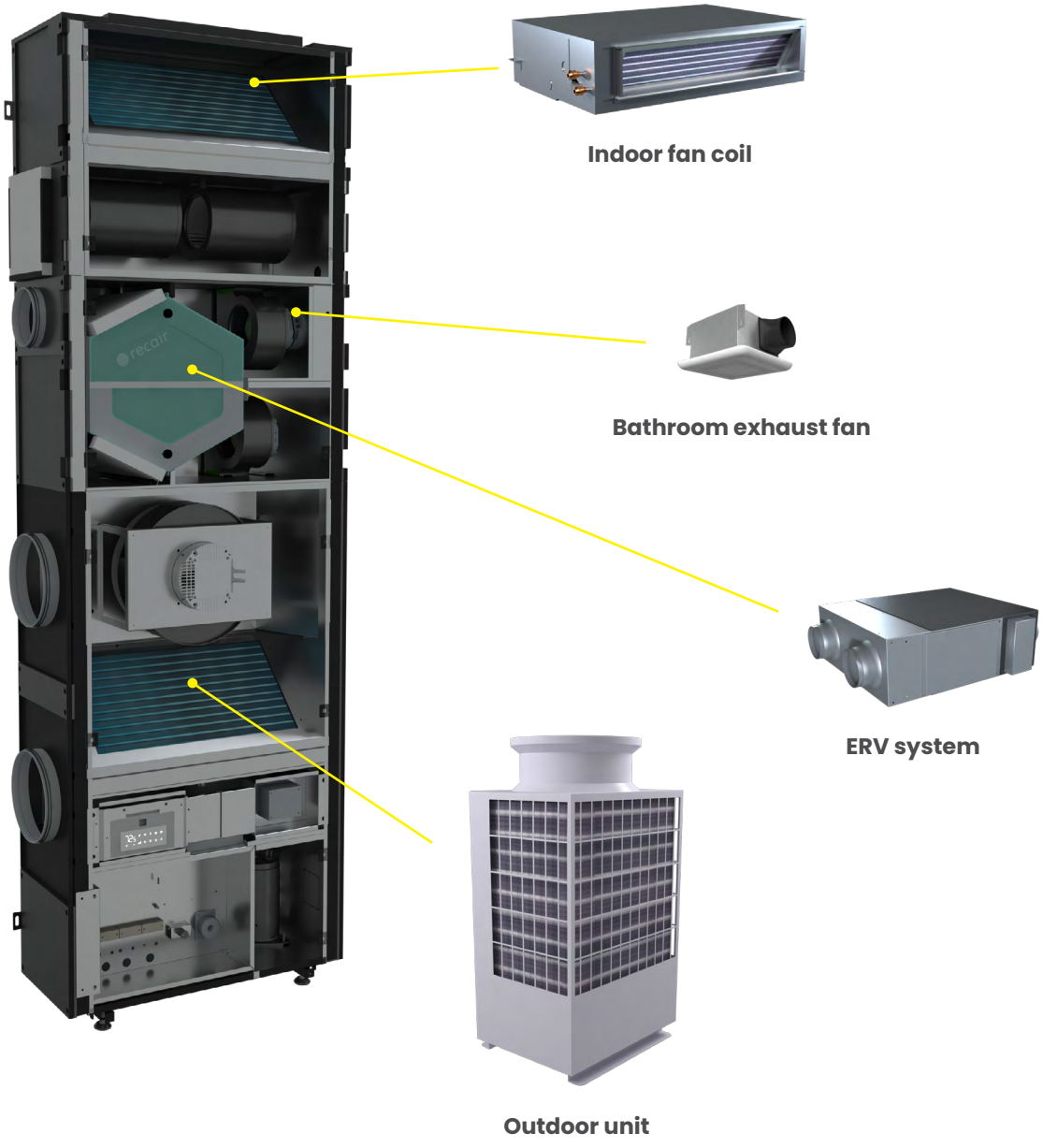
AIO, "All-In-One," combines a high-efficiency inverter heat pump with, depending on the model, a state-of-the-art ERV, MERV 13 fresh-air filter, and a bathroom exhaust inside a compact, single-package unit. Simple to design and engineer, easy to install and maintain, AIO is the best choice for all the HVAC needs of an office, hotel room, apartment, or dwelling. AIO is available in various models to meet the needs of any application or design.

Key Features:

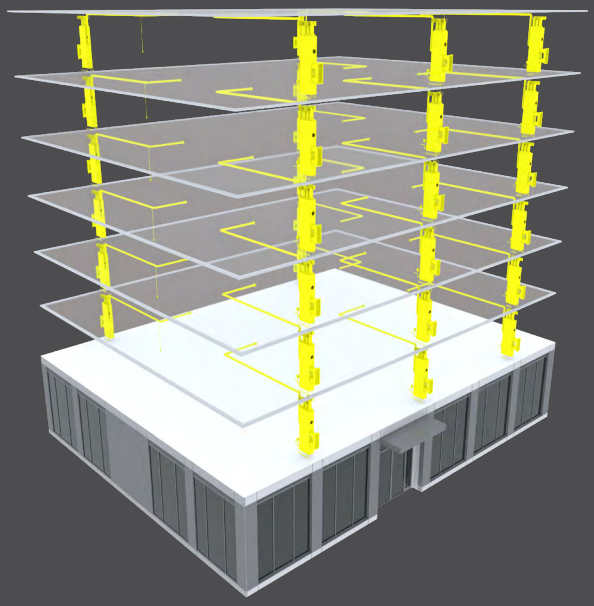
- Easy to Engineer & Install
- Efficient
- Easy to Manage
- Awesome User Experience

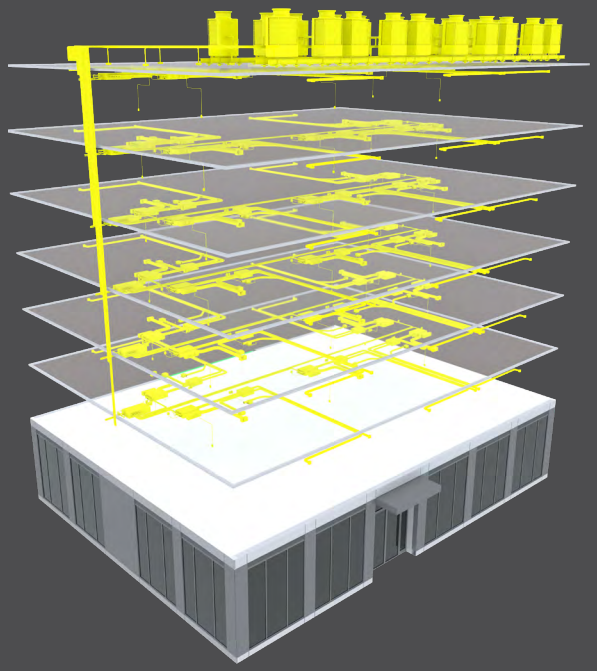
AIO is All-In-One

AIO, "All-In-One," combines a high-efficiency inverter heat pump with, depending on the model, a state-of-the-art ERV, MERV 13 fresh-air filter, and a bathroom exhaust inside a compact, single-package unit. Simple to design and engineer, easy to install and maintain, AIO is the best choice for all the HVAC needs of an office, hotel room, apartment, or dwelling. AIO is available in various models to meet the needs of any application or design. Scan or click the QR code to watch a short presentation about AIO.



Compare to VRF





AIO

- One unit
- One bathroom duct run
- One power point
- Simple to engineer and install

VRF

- Outdoor unit
- Indoor unit
- Thousands of feet of line sets
- MCU
- Billing software and staff
- Multiple power points
- ERV unit
- ERV ducting
- Bathroom exhaust
- Bathroom exhaust ducting
- Loads of drywall
- Complex to engineer and install

Please scan or click the QR code to watch a comparison installation of AIO and VRF.

Easy to Engineer & Install

AIO's single-package design means no outdoor unit to find a place for and no line sets to calculate, install, and hide. It simplifies planning and installation by replacing three systems with one. A wide range of capabilities in a single model means less time spent planning, ordering, and coordinating. Minimal clearance requirements enable AIO to be placed in tight spaces and work with any style grille and louver. AIO's compact size can fit through any doorway and can easily be carried by two people, making installation a breeze. No ducting or minimal ducting requirements mean fewer lowered ceilings. Minimal drywall work is required. Sleek units with all-metal cabinets can even be painted to blend into any decor. No brazing, vacuuming, or pressure testing is necessary because everything is in a sealed system.

- **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.
- **No line-sets**
  AIO's sealed system means no line sets, brazing, vacuuming, pressure testing, and leak detection. AIO is ready to work out of the box.
- **Wide range of capacity in one model**
  AIO's twin rotary inverter compressor offers a wide range of capacities in a single unit. AIO is ideal for any room or area that requires between 3–24 kBtu/h (0.9–7.0 kW).
- **Models for every application**
  AIO units are available in various styles to fit any application and interior design.
- **Integrated ERV**
  AIO's integrated ERV eliminates the requirement of installing an independent ERV system, ducting, electrical work, and engineering.
- **Broad range of performance**
  AIO is a powerful unit that can efficiently heat when the outdoor temperature is as low as -13°F (-25°C) using the heat pump. Cooling is effective in hot climates up to 115°F (46°C).
- **Auto ESP**
  Sophisticated ECM fans automatically adjust external static pressure.
- **Integrated bathroom exhaust system**
  The integrated stale air exhaust can be used for bathrooms and kitchens, maintaining perfect air pressure and eliminating a dedicated exhaust system.
- **Minimal clearances**
  AIO's compact form with no line sets means there is no need to access the sides of the unit. Mount units with as little as 3/4 inch (19 mm) clearance on all sides.
- **Compact footprints**
  Compact footprints take up minimum space.
- **Super powerful fan blade design**
  AIO's super powerful external fan with up to 6,000 RPM delivers power to move the air through extensive ductwork. AIO can even be externally ducted to shared ducts.
- **Easy to transport**
  AIO units are compact and light enough to be easily carried by two people. They can fit through any doorway and in any size elevator.
- **Flexible grilles & louvers**
  AIOs can be used with a host of interior and exterior grilles and louvers—from sleek exterior linear louvers to round louvers.
- **Sleek paintable cabinets**
  Besides having clean, sleek lines, AIO's exposed units are all-metal and can be painted to blend into any decor.

Efficient

Every component of AIO is designed with efficiency in mind. It starts with a twin rotary BLDC inverter compressor and continues with an option for R32 refrigerant, ECM fans, an integrated ERV, a condensate mister that cools the coils, intelligent defrosting, and Recovery Plus™—which utilizes the remaining hot or cool air to warm or cool the condenser. Tightly sealed to the external vents, AIO has almost zero leakage. AIO is also equipped with tools to reduce waste, such as a low voltage connection for occupancy sensors and fully programmable timers to maintain the temperature and keep units on only when needed.

- **Twin rotary BLDC inverter compressor**
  The state-of-the-art twin rotary BLDC inverter compressor operates efficiently, quietly, and with minimal vibration, offering the best solution technology has available today.
- **R32 - Next-gen refrigerant**
  All AIO systems are available in R32.
- **Integrated ERV**
  AIO's integrated ERV eliminates the requirement of installing an independent ERV system and all the associated ducting, electrical work, and engineering. AIO uses one of the most advanced recovery cores available.
- **High-efficiency ECM fans**
  High-efficiency ECM fans enable efficient and quiet operation as the EC motor can ramp up or down depending on the need.
- **Advanced fan blade design**
  With everything packed into a single-package design, AIO needs a powerful fan to pull in enough outside air to keep the condenser at the right temperature.
- **Recovery Plus™**
  With a patent-pending innovation, AIO utilizes the heat or cold remaining in the air after passing through the recovery core to raise or lower the temperature of the condenser, enabling a boost in performance and efficiency.
- **Cold climate heat pump**
  AIO's powerful twin rotary inverter compressor efficiently heats when the outdoor temperature is as low as -13°F (-25°C). For additional heating capacity, 0.9 and 1.8 kW heat strip options are available to work in tandem with the heat pump.
- **Intelligent defrosting**
  AIO's intelligent defrosting system means more time heating and less time on reverse cycle defrost.
- **Advanced heat exchanger**
  Advanced fin design means better performance and higher efficiency.
- **Coil cooling system**
  The condensate mister system drizzles the condensate on the outdoor heat exchanger coils, lowering the coil's temperature and increasing efficiency and performance.
- **Tightly sealed**
  Compared to a PTAC or other similar systems with large sleeves and louvers, AIO is almost airtight.
- **Versatile on/off options**
  AIO's low voltage connection enables connection to any occupancy system, keycard, 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.

Easy to Manage

The versatile design of AIO makes the system extremely reliable and inexpensive to maintain. In the unlikely event that a repair is needed, a single unit can be taken offline without affecting the entire system. No line sets mean no downtime checking for leaks. In many buildings, it's possible to set up the system so that it can be maintained from a common area, which means no maintenance personnel need to enter the unit. AIO monitors itself with protective algorithms, and a drain alarm shuts the unit off if the drain becomes clogged. AIO can be operated via building systems with Modbus and BACnet with an optional third-party gateway. Plus, AIO can be controlled from anywhere via Android and iOS apps, including comprehensive 7-day scheduling and the ability to manage multiple units. AIO comes with a 10-year limited compressor warranty.

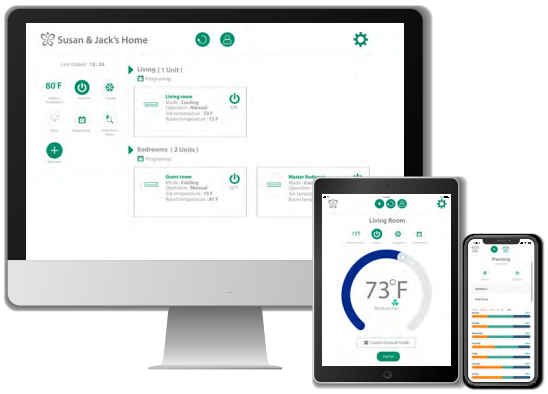
- **Unrivaled reliability**
  Using the best components and highly skilled labor, we have earned a reputation in hotels worldwide as extremely reliable.
- **Resilient**
  The decentralized design means that maintenance can be accomplished on a unit-by-unit basis. If any unit fails, only that single room/apartment is out of service.
- **Self protection**
  Complex algorithms protect the system from overheating and gradually reduce the inverter's performance in the event of overheating.
- **Corrosion protection**
  AIO comes standard with corrosion protection, assuring many years of trouble-free performance.
- **Easy to service**
  AIO can be easily maintained and repaired from the front or bottom of the unit without removing the unit from the wall or ceiling. AIO can also be quickly swapped out with a replacement, reducing downtime.
- **No inside access required**
  No inside apartment access can save substantial operational and maintenance costs. AIO units can be designed to be fully accessible from a common area.
- **One system for everything**
  One single system for cooling, heating, fresh air, stale air exhaust, and MERV 13 filtration makes servicing easier.
- **Leak protection**
  A drain alarm will activate if the drain becomes clogged, and the system will be shut off, preventing water damage.
- **BACnet & Modbus**
  AIO offers a BACnet and Modbus module that enables full connectivity for applications to interface with building management systems.
- **Reduce waste**
  AIO's low voltage connection enables connection to any occupancy system, keycard, window sensors, fire alarms, etc. As long as it can send a signal to AIO via low voltage, AIO can be commanded to turn on and off.

Awesome User Experience

AIO provides a quiet and comfortable environment. AIO can operate quietly and maintain a consistent temperature in a wide range of conditions. It's so quiet—as low as 27 decibels—that the occupants usually aren't even aware that the unit is on. The small external openings and excellent insulation mean very little outside noise penetrates the home. If the weather outside changes abruptly, the twin rotary inverter compressor allows the system to quickly adapt and maintain a steady temperature. On ERV models, the MERV 13 fresh-air filter ensures a constant supply of clean, fresh air. If the air outside is temporarily smoky or polluted, AIO allows the user to control the amount of outdoor air coming in. AIO also plays well with others and can connect to standard and smart thermostats such as Nest, Ecobee, and Honeywell.

- **Quiet inside**
  With whisper-quiet operation as low as 27 decibels, the occupant will barely notice AIO is operating.
- **Quiet outside**
  At nighttime, the outdoor fan can be set to night mode so that it's quiet outside.
- **Perfect comfort**
  The state-of-the-art twin rotary inverter compressor assures the perfect comfort level by producing the right amount of warm or cool air to keep the room temperature consistent.
- **Heats up / cools down quickly**
  The state-of-the-art twin rotary inverter compressor can quickly heat up and cool down by boosting the power at startup and lowering the power once the room reaches the desired set-point.
- **Reduced outside noise infiltration**
  AIO has the highest STC and OITC rating among comparable units. This means less outside noise intruding into the room day and night.
- **MERV 13 clean air**
  Clean outdoor air is essential to well-being and safety. On ERV models, 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 core clean.
- **Controlled ventilation**
  With AIO, the amount of fresh air can be controlled and even turned off in poor quality outdoor air. AIO can offer up to 80 CFM (135.9 m³/h) of fresh, pretreated air.

- **Android, iOS, and PC app**
  The optional Innova app enables complete functionality from anywhere. Additionally, comprehensive scheduling is easy to program using the intuitive app.



- **Wall controllers**
  Control AIO with a host of controllers, from a full-color TFT touchscreen including a 7-day programming capability to a sleek, basic Wall Mounted touch controller.
- **Third-party thermostats**
  With the third-party interface, AIO can connect to any basic or smart thermostat, like Nest and others, enabling full functionality with virtually any model.

Beware of Copycats! Their Specs are Fake

Fraudulent Specs in Illegal Copycat Units in North America

Designline, Island Air, Applied Comfort, and other brands relabel the same Chinese-made unit by Nordica for sale in North America.

Williams, Ortech, MitsAir, Silktech, Techno, and Kinghome relabel a different Chinese-made unit by Zymbo for sale in North America. Wuxi Hammer, another Chinese manufacturer, owns the Inspiron Air brand and also makes units for Multi MFG and Exinda.

These cheap Chinese knockoffs all use fake performance data.



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Innova's Million Dollar Challenge

Innova guarantees that the performance numbers published by "The Fraudulent Copycats" are fake.

Innova will pay one million dollars to any manufacturer, brand, distributor, engineer, entity, or anyone who can produce a certified, independent laboratory test report corroborating the claimed capacity and efficiency when tested in accordance with NRCan and DOE regulations.

Scan to view the full report.



Range

Mounted






	Wall Mounted Pro	Wall Mounted	Floor Standing	Ceiling Suspended
Cooling Capacity (min-max)*	3.3–15.0 kBtu/h (1.0–4.4 kW)	3.3–10.2 kBtu/h (1.0–3.0 kW)	3.9–10.2 kBtu/h (1.1–3.0 kW)	3.1–15.0 kBtu/h (0.9–4.4 kW)
Heating Capacity (min-max)**	3.9–14.5 kBtu/h (1.1–4.2 kW)	3.0–10.1 kBtu/h (0.9–3.0 kW)	3.0–10.1 kBtu/h (0.9–3.0 kW)	3.5-14.0 kBtu (1.0-4.1 kW)

PTHP



	NextGen PTHP
Cooling Capacity (min-max)*	4.5–17.0 kBtu/h (1.3–5.0 kW)
Heating Capacity (min-max)**	4.0–15.5 kBtu/h (1.2–4.5 kW)

Ducted






	Ceiling Ducted	Vertical Stack	Vertical Stack XL	Slim V
Cooling Capacity (min-max)*	3.1–15.0 kBtu/h (0.9–4.4 kW)	3.6–14.4 kBtu/h (1.1–4.2 kW)	4.5–24.0 kBtu/h (1.3–7.0 kW)	3.9–10.2 kBtu/h (1.1–3.0 kW)
Heating Capacity (min-max)**	3.5–14.0 kBtu/h (1.0–4.1 kW)	3.9–13.8 kBtu/h (1.1–4.0 kW)	5.0-24.0 kBtu (1.5-7.0 kW)	3.0-10.1 kBtu (0.9-3.0 kW)

* At 95°F (35°C).

** At 47°F (8°C).



AIO Wall Mounted Pro

AIO Wall Mounted Pro units are slim and sleek. The unit can be mounted high or low with a factory-supplied bracket, making installation quick and simple. Special adapters enable the unit to be installed perpendicular to an outside wall, used with many louver styles, or even vented through an existing window frame with no construction required. An electronically controlled louver with an auto-swing function distributes airflow comfortably and uniformly. Wall Mounted Pro units are ideal for any area with free wall space. The onboard touch controller simplifies use and installation. AIO Wall Mounted Pro is available with an optional ERV module. The extremely powerful exhaust fan with 0.45" WC (112 Pa) enables flexibility in venting and higher efficiency with better performance than the standard Wall Mounted unit. Watch how it is installed by scanning or clicking the QR code above.



Key Features

- Compact unit
- Easy to install
- Paintable, sleek cabinet
- Electronically controlled air louver
- Always-on back-lit LED dims after 15 seconds of inactivity
- Auto-restart
- Washable filters

Options

- 0.9/1.8 kW electric heat
- ERV Module
- 115V or 230V
- Hardwire or LCDI cord
- R32

Operation

- Cool, heat, dehumidify, and auto
- Selectable fan speeds, low, med, high, and auto
- Fresh air ERV - field configurable amount of fresh air (with optional ERV Module)

Mounting

- High wall
- Low wall
- Sidewall with adapter
- Multiple adapter options

Airflow

- Dual 8-inch (203 mm) external vents
- Available 0.45" WC (112 Pa) for external ducting, adapters, and louvers

Included Controllers

- Onboard touch controller

Optional Controllers

- WiFi app for Android and iPhone
- Wall Mounted Advanced touchscreen with a 7-day program
- Wall Mounted Basic touch controller
- Third-party thermostat interface
- BACnet/Modbus interface

Installation



High-wall install



Low-wall install



Sidewall install

Key Specifications

High Performance & High Efficiency

			AHRI and Energy Star		
			95°F (35°C)[1]	**105°F (41°C)[2]**	**115°F (46°C)[3]**
Cooling - Heat Pump Only					
Capacity	Maximum	kBtu/h (kW)	15.0 (4.4)	13.5 (4.0)	12.0 (3.5)
	Recommended*		10.4 (3.0)	9.2 (2.7)	8.6 (2.5)
	Nominal		9.0 (2.6)	8.2 (2.4)	7.7 (2.3)
	Minimum		3.3 (1.0)	3.3 (1.0)	3.3 (1.0)
Power input	Maximum	kW	1.79	1.79	1.69
	Recommended*		1.05	1.05	1.13
	Nominal		0.80	0.91	0.98
	Minimum		0.20	0.24	0.27
Efficiency	Maximum		8.34	7.6	7.1
	Recommended		9.9	8.8	7.6
	Rated / Nominal		11.2	9.0	7.8
	SEER2		15.7	-	-
Moisture removal		Pts/h (L/h)	1.9 (0.9)	2.1 (1.0)	2.4 (1.1)

			AHRI and Energy Star				
			47°F (8°C)[4]	**17°F (-8°C)[5]**	**5°F (-15°C)[6]**	**0°F (-18°C)[7]**	**-5°F (-21°C)[8]**
Heating - Heat Pump Only**							
Capacity	Maximum	kBtu/h (kW)	14.5 (4.2)	9.1 (2.7)	6.7 (2.0)	6.5 (1.9)	6.1 (1.8)
	Recommended*		10.1 (3.0)	8.5 (2.5)	6.3 (1.8)	6.0 (1.8)	5.7 (1.7)
	Nominal		9.0 (2.6)	7.6 (2.2)	5.6 (1.6)	5.4 (1.6)	5.1 (1.5)
	Minimum		3.9 (1.1)	3.3 (1.0)	2.8 (0.8)	3.3 (1.0)	3.3 (1.0)
Power input	Maximum	kW	1.62	1.63	1.63	1.48	1.57
	Recommended*		0.99	1.08	1.06	1.10	1.05
	Nominal		0.71	0.94	0.92	0.95	0.92
	Minimum		0.36	0.37	0.41	0.44	0.47
Efficiency	Maximum		2.6	1.6	1.2	1.3	1.1
	Recommended		3.0	2.3	1.7	1.6	1.6
	Nominal		3.7	2.4	1.8	1.7	1.6
	Minimum		3.2	2.6	2.0	2.2	2.1
	HSPF2		8.6	-	-	-	-

1 **95°F (35°C)** 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 **105°F (41°C)** 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 **115°F (46°C)** 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)
4 **47°F (8°C)** 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)
5 **17°F (-8°C)** ID: 70°F(21.1°C), W.B. 60°F(15.6°C); OD: 17°F(-8.3°C), W.B. 13°F(-10.6°C)
6 **5°F (-15°C)** 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)
7 **0°F (-18°C)** ID: 70°F(21.1°C), W.B. 60°F(15.6°C); OD: 0°F(-17.8°C)
8 **-5°F (-21°C)** ID: 70°F(21.1°C), W.B. 60°F(15.6°C); OD: -5°F (-20.6°C)

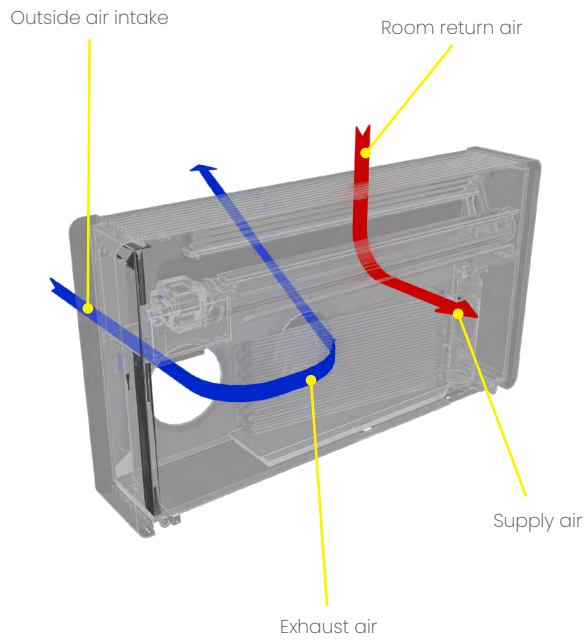
* This is the recommended capacity for sizing the unit to the space.

** The tables show Heat Pump performance only. An electric heating element can be added to provide an additional output of 3.1 or 6.1 kBtu/h (0.9 or 1.8 kW).

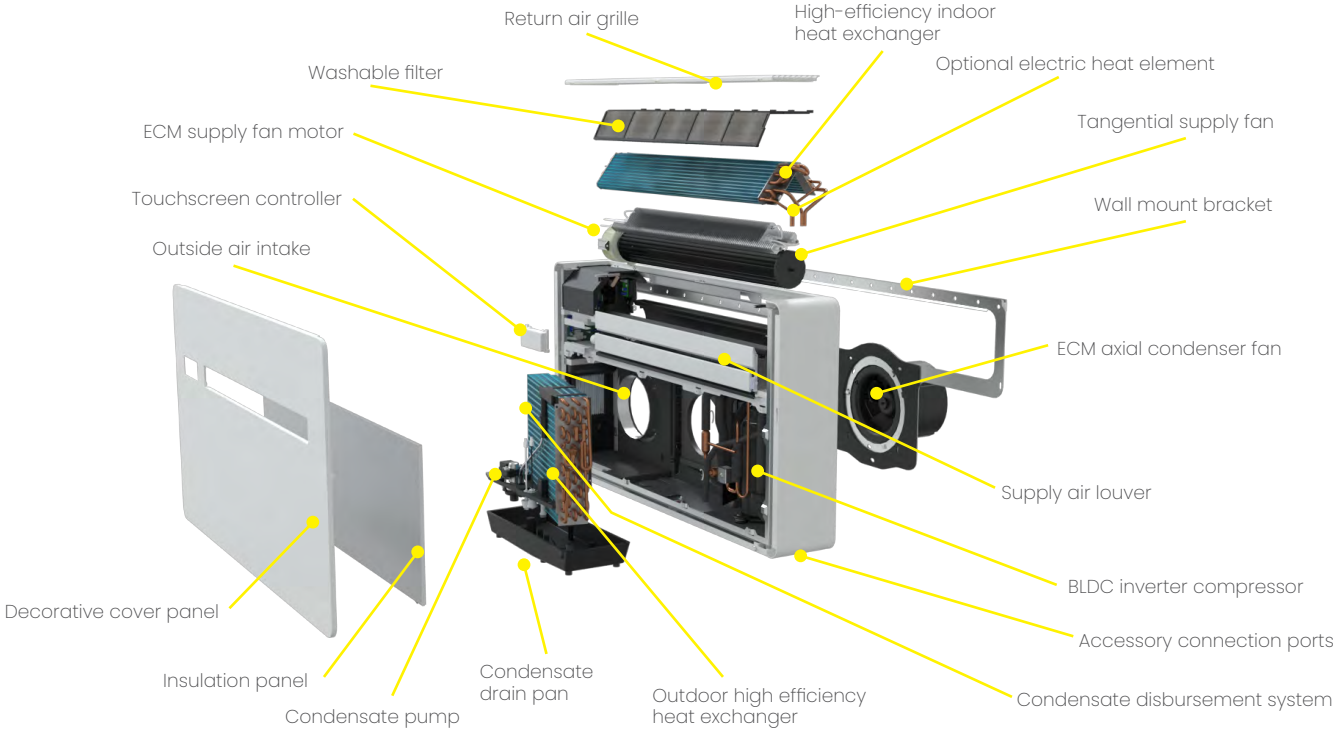
Airflow

AIO Wall Mounted Pro is extraordinarily flexible in how it can externally vent. A host of adapters are available that enable AIO Wall Mounted Pro to be installed in many scenarios, including on glass curtain walls with linear louvers, integrated windows, and louver assemblies, or even with no construction using a windowsill adapter.

- **Supply air**
  The supply air is through an electronically controlled louver that can be set at any angle or continuously oscillate.
- **Return air**
  The return air is on the top through the integrated return air grille.
- **Outside air intake**
  The 8-inch (203 mm) round outside air intake connection can be ducted or used with an adapter with up to 0.45" WC (112 Pa) external static pressure (combined between intake and exhaust). Use with any of the approved or custom louvers as long as they comply with the minimum requirements.
- **Outside air exhaust**
  The 8-inch (203 mm) round exhaust connection can be ducted or used with an adapter with up to 0.45" WC (112 Pa) external static pressure (combined between intake and exhaust). Use with any of the approved or custom louvers as long as they comply with the minimum requirements.



What's Inside



Technical Specifications

Airflow		
Indoor	Type	ECM centrifugal
	CFM (m³/h)	175 - 290 (297 - 493)
	Available ESP	N/A
	Supply connection	Integrated
	Return connection	Integrated
	Filter	MERV 3
Outdoor	Type	ECM centrifugal
	CFM (m³/h)	235 - 450 (399 - 765)
	Available ESP	0.45" WC (112 Pa)
	Intake connection	8" (203 mm) round
	Exhaust connection	8" (203 mm) round
General		
Compressor	Type	BLDC twin rotary inverter
	Oil Type	Fv50s (ISO 50) Polyvinylether (PVE)
Controls	Basic Functionality	Dependent on the controller
	WiFi	Optional module available
	Dry Contact	Yes
Modes	Operation	Cool, heat, dehumidify, auto, fan only
	Restricted Modes	Heat only, cool only, temperature limiting
	Timers	Dependent on the controller
Condensate	Pipe size	3/4" (19 mm) outside diameter
	Pipe Material	Rubber
Sound		
Indoor	DB range: dB(A)	29 - 49
	STC	40
	OITC	35
Outdoor	dB(A)	28 - 55

AHRI and Energy Star

Electrical Data: Heat Pump Only*		115V	230V
Power Supply	Ph/Hz	1/60	
Power Factor		0.96	
Input Power - standby	W	10.8	
Input Power - off mode	W	1.5	
Running Amps Cooling	A	6.9	3.4
Max. Amps Cooling	A	15.7	7.8
Running Amps Heating	A	7.0	3.5
Max. Amps Heating	A	15.7	7.8
MCA	A	18	10
MOCP	A	40	15

* See the Post Heater table.

Electrical connection			115V	230V
LCDI Power Cord	Amps	A	20	15
	Plug	NEMA	5-20P	6-15P
Quick-connect whip	Length	in (mm)	40 (1,016)	40 (1,016)

Electrical (General) - Motors			115V	230V
Compressor	RLA	A	7.9	7
	LRA	A	7.9	7
Indoor ECM fan motor	Max Watts	W	50	50
	F.L.A.	A	0.4	0.2
	Power	HP	0.07	0.07
Outdoor ECM fan motor	Max Watts	W	150	150
	F.L.A.	A	1.3	0.7
	Power	HP	0.20	0.20

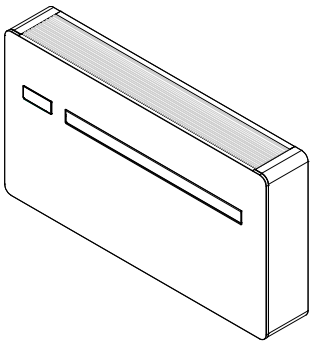
Post Heater Output and Current

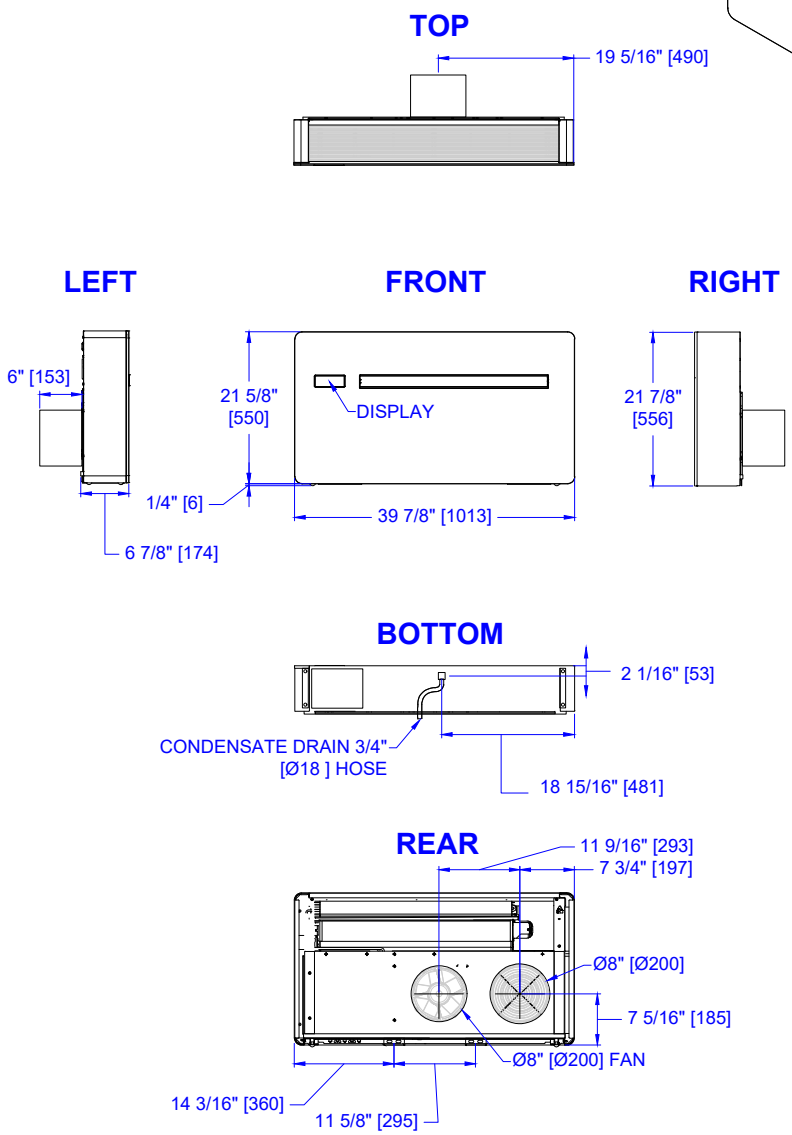
	900 W	1800 W
115 V	900 W / 7.8 A	N/A
208 V	736 W / 3.5 A	1,472 W / 7.1 A
230 V	900 W / 3.9 A	1,800 W / 7.8 A
240 V	980 W / 4.1 A	1,960 W / 8.2 A

Unit Dimensions and Mechanical Details		
Dimensions		39.9" W x 21.6" H x 6.9" D + 6" fan depth
		1,013 mm W x 549 mm H x 175 D mm + 152 mm fan depth
Net weight	lb (kg)	100 (45.4)
Gross weight	lb (kg)	105 (47.6)
Cabinet finish		RAL 9003 signal white
Cabinet material		Steel

Dimensions

For CAD and DWG files, please scan or click the QR code below.







AIO Wall Mounted

AIO Wall Mounted units are slim and sleek. Wall Mounted units can be mounted high or low with a factory-supplied bracket, making installation quick and simple. An electronically controlled louver with an auto-swing function distributes airflow comfortably and uniformly. Wall Mounted units are ideal for any area with free wall space. The onboard touch controller simplifies use and installation. AIO Wall Mounted units are available with an optional ERV module. Special adapters enable the unit to be installed perpendicular to an outside wall. Watch how it is installed by scanning or clicking the QR code above.



Key Features

- Compact unit
- Easy to install
- Paintable, sleek cabinet
- Electronically controlled air louver
- Always-on back-lit LED dims after 15 seconds of inactivity
- Auto-restart
- Washable filters

Options

- Optional 0.9/1.8 kW electric heat
- Optional ERV module
- 115V or 230V
- Hardwire or LCDI cord
- R32

Operation

- Cool, heat, dehumidify, and auto
- Selectable fan speeds, low, med, high, and auto
- Fresh air ERV - field configurable amount of fresh air (with optional ERV module)

Mounting

- High wall
- Low wall
- Sidewall with adapter

Airflow

- Dual 8" (203 mm) external vents
- Available 0.25" WC (62 Pa) for louvers

Included Controllers

- Onboard touch controller

Optional Controllers

- WiFi app for Android and iPhone
- Wall Mounted Advanced touchscreen with a 7-day program
- Wall Mounted Basic touch controller
- Third-party thermostat interface
- BACnet/Modbus interface

Installation



High-wall install



Low-wall install



Sidewall install

Key Specifications

High Performance & High Efficiency

			AHRI			Energy Star Certified		
			95°F (35°C)[1]	105°F (41°C)[2]	115°F (46°C)[3]	95°F (35°C)[1]	105°F (41°C)[2]	115°F (46°C)[3]
Cooling - Heat Pump Only								
Capacity	Maximum	kBtu/h (kW)	10.2 (3.0)	8.0 (2.3)	7.5 (2.2)	10.2 (3.0)	8.0 (2.3)	7.5 (2.2)
	Recommended*		9.0 (2.6)	7.5 (2.2)	7.1 (2.1)	9.0 (2.6)	7.5 (2.2)	7.1 (2.1)
	Nominal		7.4 (2.2)	7.3 (2.1)	7.1 (2.1)	6.7 (2.0)	7.3 (2.1)	7.1 (2.1)
	Minimum		3.3 (1.0)	3.3 (1.0)	3.3 (1.0)	3.3 (1.0)	3.3 (1.0)	3.3 (1.0)
Power input	Maximum	kW	1.10	1.00	1.08	1.10	1.00	1.08
	Recommended*		1.05	0.93	0.99	1.05	0.93	0.99
	Nominal		0.81	0.90	0.99	0.64	0.90	0.99
	Minimum		0.20	0.24	0.27	0.20	0.24	0.27
Efficiency	Maximum		9.3	8.0	7.0	9.3	8.0	7.0
	Recommended		8.6	8.1	7.2	8.6	8.1	7.2
	Nominal		9.2	8.2	7.2	10.5	8.2	7.2
	SEER2		13.7	-	-	15.2	-	-
Moisture removal		Pts/h (L/h)	1.9 (0.9)	2.1 (1.0)	2.3 (1.1)	1.9 (0.9)	2.1 (1.0)	2.3 (1.1)

			AHRI				Energy Star Certified			
			47°F (8°C)[4]	17°F (-8°C)[5]	5°F (-15°C)[6]	0°F (-18°C)[7]	-5°F (-21°C)[8]	47°F (8°C)[4]	17°F (-8°C)[5]	5°F (-15°C)[6]	0°F (-18°C)[7]	-5°F (-21°C)[8]
Heating - Heat Pump Only**												
Capacity	Maximum	kBtu/h (kW)	10.1 (3.0)	6.4 (1.9)	6.0 (1.8)	5.7 (1.7)	5.3 (1.6)	10.1 (3.0)	6.4 (1.9)	6.0 (1.8)	5.7 (1.7)	5.3 (1.6)
	Recommended*		8.8 (2.6)	5.7 (1.7)	5.9 (1.7)	5.7 (1.7)	5.1 (1.5)	8.8 (2.6)	5.7 (1.7)	5.0 (1.5)	5.7 (1.7)	5.1 (1.5)
	Nominal		7.4 (2.2)	5.1 (1.5)	5.3 (1.6)	5.1 (1.5)	4.9 (1.4)	6.7 (2.0)	4.8 (1.4)	4.5 (1.3)	5.1 (1.5)	4.9 (1.4)
	Minimum		3.0 (0.9)	3.0 (0.9)	3.0 (0.9)	3.0 (0.9)	3.0 (0.9)	3.0 (0.9)	3.0 (0.9)	3.0 (0.9)	3.0 (0.9)	3.0 (0.9)
Power input	Maximum	kW	1.03	0.97	1.43	1.40	1.32	1.03	0.97	1.43	1.40	1.32
	Recommended*		0.86	0.87	1.04	1.04	1.07	0.86	0.87	0.86	1.04	1.07
	Nominal		0.70	0.83	0.91	0.90	0.93	0.59	0.62	0.75	0.90	0.93
	Minimum		0.23	0.41	0.42	0.43	0.43	0.23	0.41	0.42	0.43	0.44
Efficiency	Maximum		2.9	1.9	1.2	1.2	1.2	2.9	1.9	1.2	1.2	1.2
	Recommended		3.0	1.9	1.7	1.6	1.4	3.0	1.9	1.7	1.6	1.4
	Nominal		3.1	1.8	1.7	1.7	1.6	3.3	2.3	1.8	1.7	1.6
	Minimum		3.8	2.2	2.1	2.1	2.0	3.8	2.2	2.1	2.1	2.0
	HSPF2		7.1	-	-	-	-	8.6	-	-	-	-

1 **95°F (35°C)** 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 **105°F (41°C)** 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 **115°F (46°C)** 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)
4 **47°F (8°C)** 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)
5 **17°F (-8°C)** ID: 70°F(21.1°C), W.B. 60°F(15.6°C); OD: 17°F(-8.3°C), W.B. 13°F(-10.6°C)
6 **5°F (-15°C)** 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)
7 **0°F (-18°C)** ID: 70°F(21.1°C), W.B. 60°F(15.6°C); OD: 0°F(-17.8°C)
8 **-5°F (-21°C)** ID: 70°F(21.1°C), W.B. 60°F(15.6°C); OD: -5°F (-20.6°C)

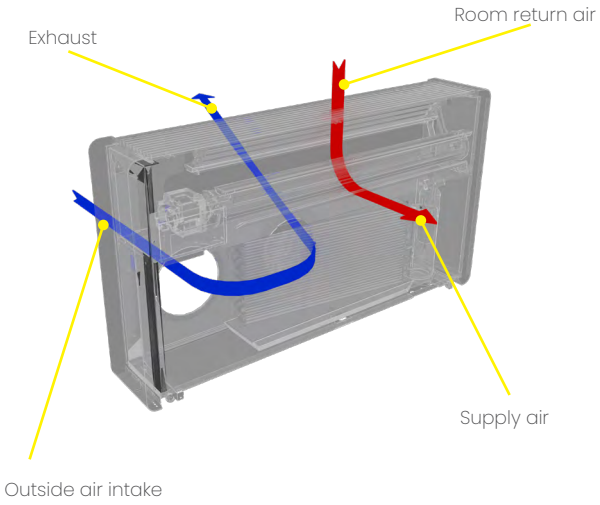
* This is the recommended capacity for sizing the unit to the space.

** The tables show Heat Pump performance only. An electric heating element can be added to provide an additional output of 3.1 or 6.1 kBtu/h (0.9 or 1.8 kW).

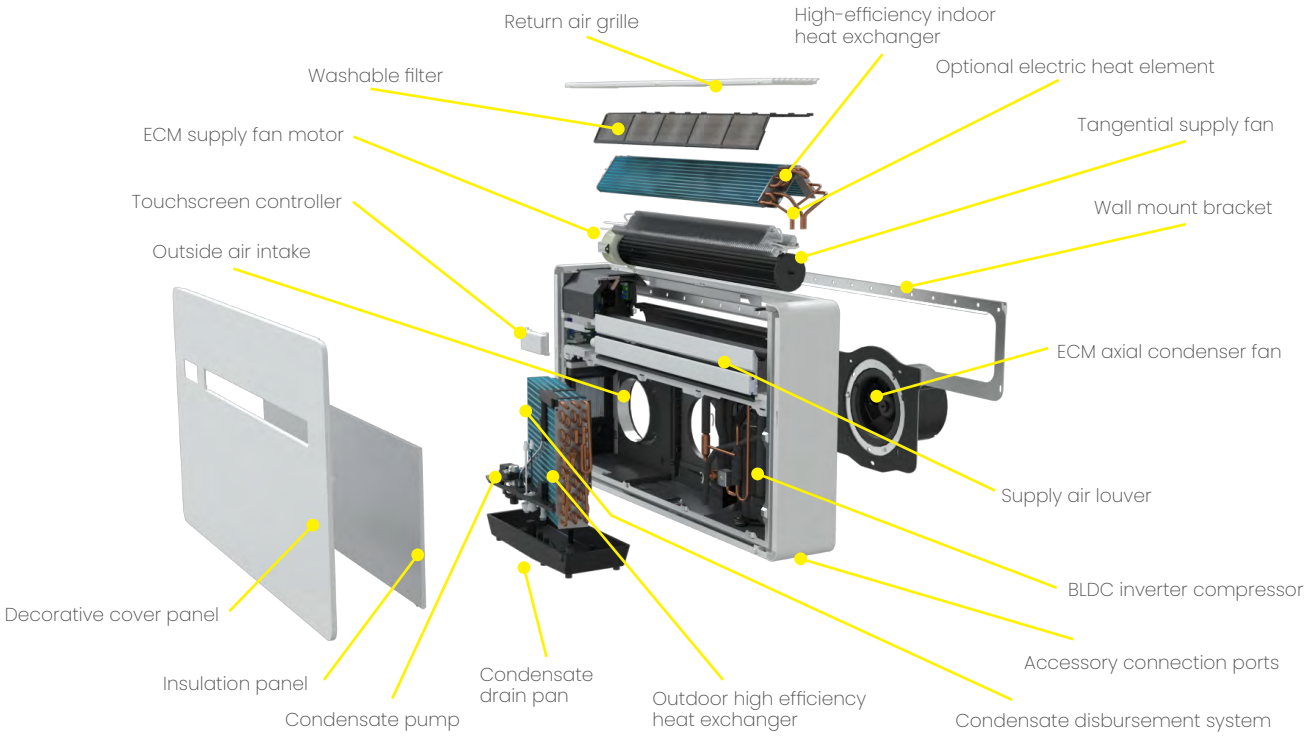
Airflow

In addition to the typical twin external vents, AIO Wall Mounted can attach to a sidewall adapter enabling mounting on a wall perpendicular to the outside.

- **Supply air**
  The supply air is through an electronically controlled louver that can be set at any angle or continuously oscillate.
- **Return air**
  The return air is on the top through the integrated return air grille.
- **Outside air intake**
  The 8-inch (203 mm) (adaptable to 6-inch (152 mm)) outside air intake connection works with any of the approved or custom louvers as long as they comply with the minimum requirements.
- **Outside air exhaust**
  The 8-inch (203 mm) (adaptable to 6-inch (152 mm)) round outside air exhaust connection works with any of the approved or custom louvers as long as they comply with the minimum requirements.



What's Inside



Technical Specifications

Airflow		
Indoor	Type	ECM centrifugal
	CFM (m³/h)	175 - 270 (297 - 459)
	Available ESP	N/A
	Supply connection	Integrated
	Return connection	Integrated
	Filter	MERV 3
Outdoor	Type	ECM centrifugal
	CFM (m³/h)	235 - 325 (399 - 552)
	Available ESP	0.25" WC (62 Pa)
	Intake connection	8" (203 mm) round
	Exhaust connection	8" (203 mm) round
General		
Compressor	Type	BLDC twin rotary inverter
	Oil Type	Fv50s (ISO 50) Polyvinylether (PVE)
Controls	Basic Functionality	Dependent on controller
	WiFi	Optional module available
	Dry Contact	Yes
Modes	Operation	Cool, heat, dehumidify, auto, fan only
	Restricted Modes	Heat only, cool only, temperature limiting
	Timers	Dependent on the controller
Condensate	Pipe size	3/4" (19 mm) outside diameter
	Pipe Material	Rubber
Sound		
Indoor	DB range: dB(A)	27 - 41
	STC	37
	OITC	28
Outdoor	dB(A)	28 -52

			AHRI		Energy Star Certified	
Electrical Data: Heat Pump Only*			**115V**	**230V**	**115V**	**230V**
Power Supply	Ph/Hz		1/60		1/60	
Power Factor			0.96		0.96	
Input Power - standby	W		10.8		10.8	
Input Power - off mode			1.5		1.5	
Running Amps Cooling	A		5.7	2.9	5.7	2.9
Max. Amps Cooling			9.6	4.8	9.6	4.8
Running Amps Heating			5.1	2.6	5.1	2.6
Max. Amps Heating			9.6	4.8	9.6	4.8
MCA			12	6	12	6
MOCP			25	15	25	15

* See the Post Heater table.

Electrical connection			115V	230V
LCDI Power Cord	Amps	A	15	15
	Plug	NEMA	5-15P	6-15P
Quick-connect whip	Length	in (mm)	40 (1,016)	40 (1,016)

Electrical (General) - Motors			115V	230V
Compressor	RLA	A	7.9	3.9
	LRA		7.9	3.9
Indoor ECM fan motor	Max Watts	W	50	50
	F.L.A.	A	0.4	0.3
	Power	HP	0.07	0.07
Outdoor ECM fan motor	Max Watts	W	90	90
	F.L.A.	A	0.8	0.4
	Power	HP	0.12	0.12

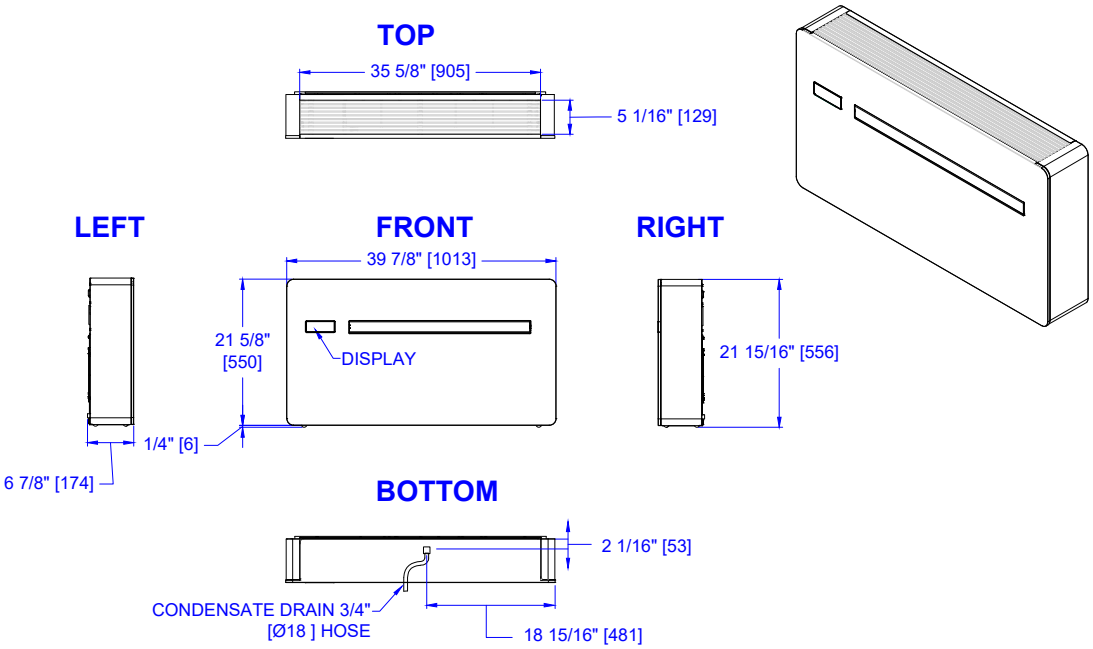
Post Heater Output and Current

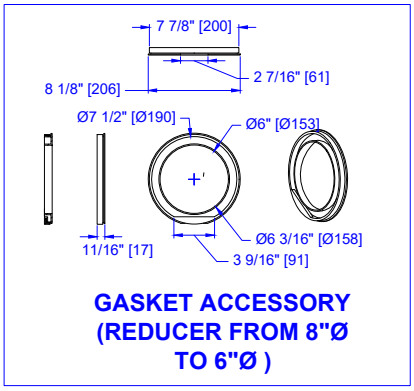
	900 W	1800 W
115 V	900 W / 7.8 A	N/A
208 V	736 W / 3.5 A	1,472 W / 7.1 A
230 V	900 W / 3.9 A	1,800 W / 7.8 A
240 V	980 W / 4.1 A	1,960 W / 8.2 A

Unit Dimensions and Mechanical Details		
Dimensions		39.9" W x 21.97" H x 6.9" D
		1,013 mm W x 558 mm H x 175 mm D
Net weight	lb (kg)	100 (45.4)
Gross weight		105 (47.6)
Cabinet finish		RAL 9003 signal white
Cabinet material		Steel

Dimensions

For CAD and DWG files, please scan or click the QR code below.



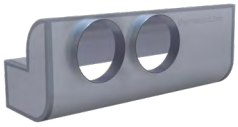




Accessories Range

For Wall Mounted and Wall Mounted Pro

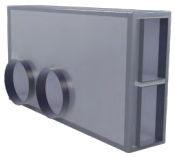
Adapters



Floor Louver / High Window Adapter



Window Assembly / Windowsill Adapter



Sidewall Adapter (Wall Mounted Pro)



Duo Sidewall Adapter

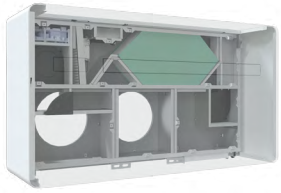


Through-the-Wall Adapter



Sidewall Adapter (Wall Mounted)

ERV



External Nebulizer Kit



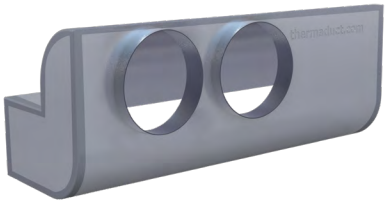


Adapters

AIO Wall Mounted units can be used with several adapters, which enable a very high level of installation flexibility. The following pages summarize the adapters available with the Wall Mounted Pro units. These adapters, which can be customized, and other custom solutions are available through our certified supplier, Thermaduct. For more information, please contact Thermaduct at 1-855-809-6903 or visit thermaduct.com

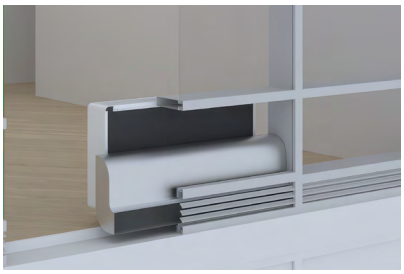
Floor Louver Adapter

The Floor Louver Adapter enables AIO Wall Mounted Pro units to vent through a sleek linear louver below the unit. The adapter is designed to fit inside a standard wall assembly or aluminum profile so only the AIO is visible inside the room. On the exterior, all that is visible is a slim linear louver. The curved base assists the airflow while allowing any water penetrating the louvers to drip directly outside. This adapter is fully customizable and available through our certified part supplier, Thermaduct. Watch how it is installed by scanning or clicking the QR code above.





Exterior



Assembly



Interior

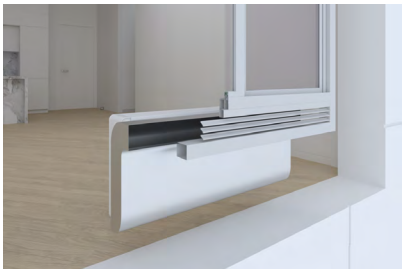
Window Assembly Adapter

The Window Assembly Adapter enables AIO Wall Mounted Pro units to vent through a window/louver assembly (similar to an assembly used with PTACs), with a slim louver. The plenum box is designed to fit inside a standard shear wall or aluminum profile, so all that is visible is the AIO unit. This adapter works with wood and steel stud construction and is ideal for glass curtain wall construction. This adapter is fully customizable and available through our certified part supplier, Thermaduct. Watch how it is installed by scanning or clicking the QR code above.





Exterior



Assembly



Interior

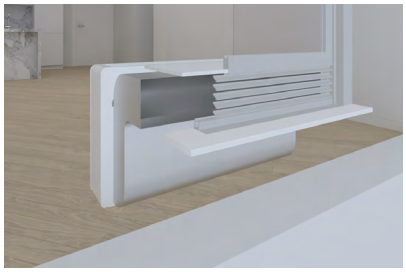
Windowsill Adapter

The Windowsill Adapter enables AIO Wall Mounted Pro units to be mounted on the wall below the window without any construction. It is ideal for retrofit installations where drilling vent holes in the facade isn't feasible. Once installed, the window is still fully operable. Deeper side panels are available to conceal the adapter so that the assembly looks sleek and finished. A new windowsill of any material may be placed on top of the plenum box to complete the integration. This adapter is fully customizable and available through our certified part supplier, Thermaduct. Watch how it is installed by scanning or clicking the QR code above.





Exterior



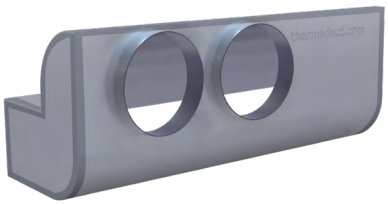
Assembly



Interior

High Window Adapter

The High Window Adapter enables the installation of Wall Mounted Pro units on the wall above the window without any construction. It is ideal for retrofit installations where it is not desirable to have the AIO mounted below the window and where making an opening in the facade isn't feasible. Once installed, the window is still fully operable. The plenum box's base is curved, assisting airflow while allowing any water penetrating the louvers to drip outside. This adapter is fully customizable and available through our certified part supplier, Thermaduct. Watch how it is installed by scanning or clicking the QR code above.





Exterior



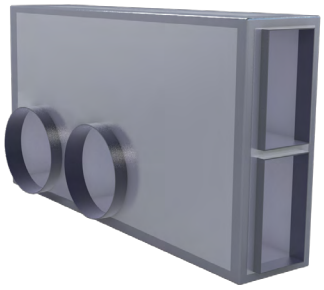
Assembly



Interior

Sidewall Adapter (Wall Mounted Pro)

The Sidewall Adapter is ideal for applications where it's not feasible or practical to mount AIO wall units on an exterior wall, venting directly out. With the sidewall adapter, the units can be mounted on a wall perpendicular to the outer wall in low-wall or high-wall positions using the sidewall adapter. The sidewall adapter is recessed into the wall. The sidewall adapter is available for right-side or left-side applications. This adapter is fully customizable and available through our certified part supplier, Thermaduct. Watch how it is installed by scanning or clicking the QR code above.

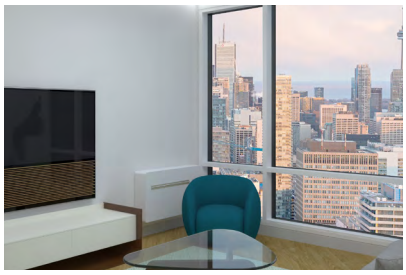




Exterior



Assembly



Interior

Duo Sidewall Adapter

The Duo Sidewall Adapter is perfect for applications where it's desirable to have two AIO Wall Mounted units back-to-back on a shared wall. Mounting inside the wall enables an AIO Wall Mounted Pro unit to be installed on each side, in a high-wall or low-wall configuration. This adapter is fully customizable and available through our certified part supplier, Thermaduct. Watch how it is installed by scanning or clicking the QR code above.

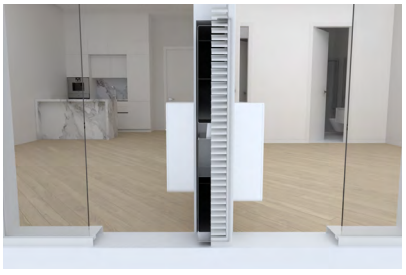




Exterior



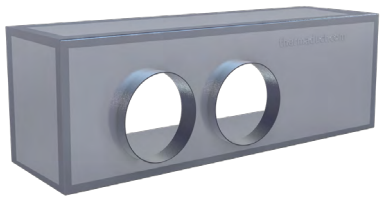
Assembly



Interior

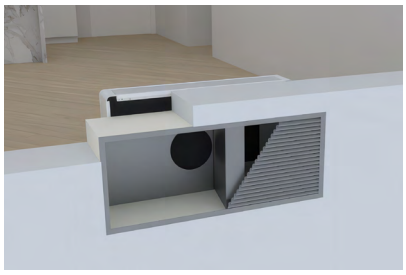
Through-the-Wall Adapter

The Through-the-Wall Adapter enables the Wall Mounted Pro unit to be mounted to an existing PTAC sleeve. The plate covers the entire PTAC sleeve opening (and a half-inch on each side to cover any wall seams), sealing the PTAC opening entirely so there are no air leaks. No construction is required. This adapter is fully customizable and available through our certified part supplier, Thermaduct. Watch how it is installed by scanning or clicking the QR code above.





Exterior



Assembly



Interior

Sidewall Adapter (Wall Mounted)

The Sidewall Adapter enables the AIO Wall Mounted unit to be installed perpendicular to the exterior wall. At just 6.5 inches (165.1 mm) deep, the Sidewall Adapter can be recessed inside a wall, so all that is visible is the AIO. An integrated ECM fan sits inside the adapter to assist the airflow through the additional bends. This ECM fan is powered and controlled by the AIO Wall Mounted and connects with an included wiring harness. The Sidewall Adapter is available in left or right venting options and is compatible with 115V and 230V versions. Watch how it is installed by scanning or clicking the QR code above.





Exterior



Assembly



Interior





ERV Module

For Wall Mounted and Wall Mounted Pro

The ERV Module is designed for compatibility with the Wall Mounted and Wall Mounted Pro units. It attaches securely to the back of these units using the existing holes, so no additional openings are required. The ERV Module is controlled and powered by the Wall Mounted and Wall Mounted Pro units. It features two MERV 13 filters to ensure clean air and provides up to 30 CFM (51 m³/h) of fresh air.



Key Features

- Compact unit
- Easy to install
- Paintable, sleek cabinet
- Controlled and powered by Wall Mounted or Wall Mounted Pro
- Auto-restart
- MERV 13 filters

Operation

- Cool, heat, dehumidify, and auto
- Selectable fan speeds, low, med, high, and auto
- Fresh air ERV - field configurable amount of fresh air

Mounting

- High wall
- Low wall
- Sidewall with adapter

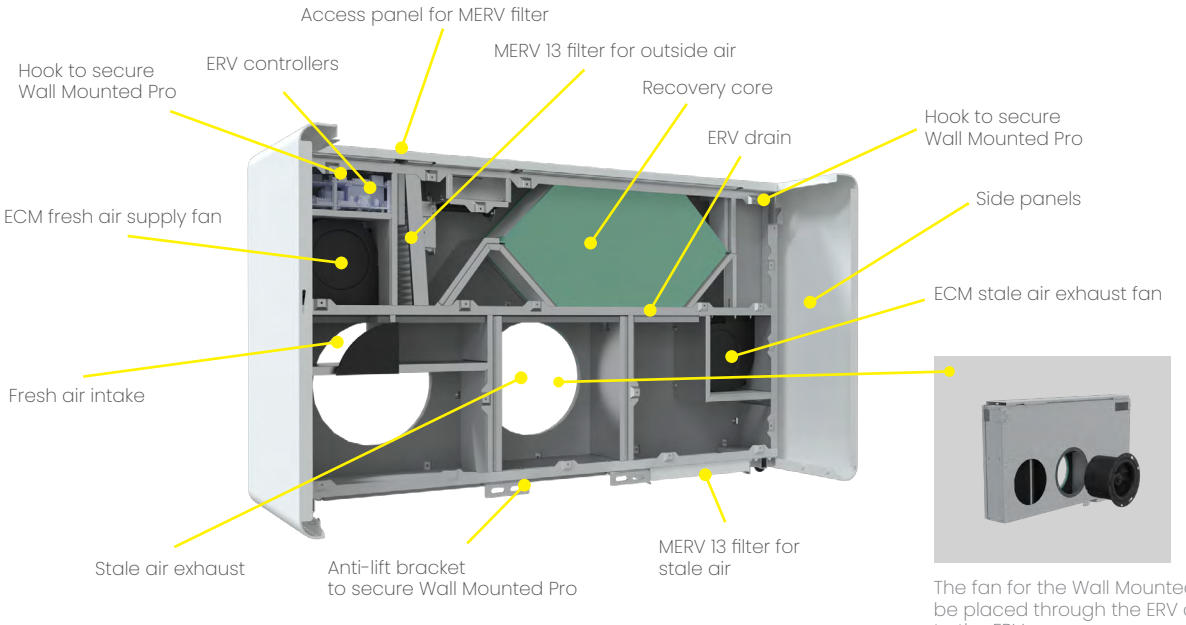
Airflow

- Up to 30 CFM (51 m³/h)

Included Controllers

- Controlled by the Wall Mounted or Wall Mounted Pro

What's Inside

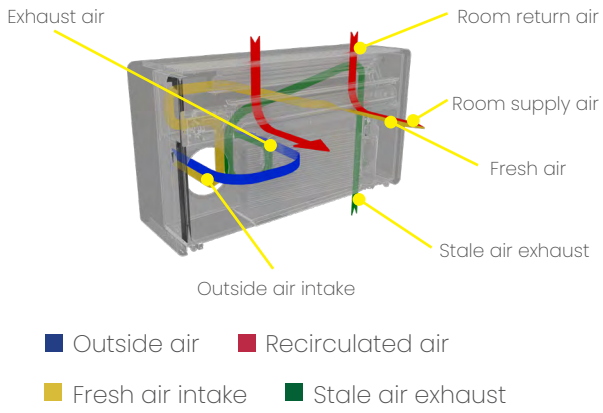


The fan for the Wall Mounted Pro unit can be placed through the ERV and secured to the ERV.

Airflow

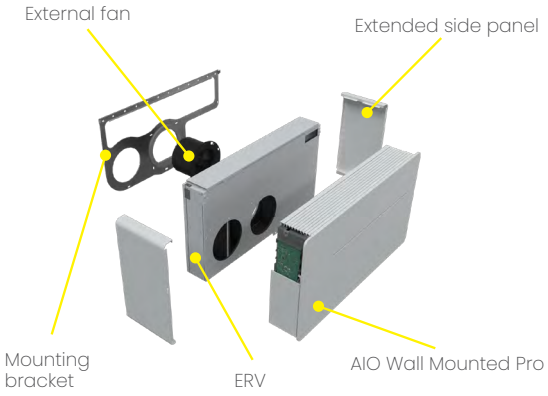
The AIO ERV Module is extraordinarily flexible in how it can externally vent as it uses the same vents and/or adapters as the AIO Wall Mounted or Wall Mounted Pro.

- **Outside air intake**
  The 6-inch or 8-inch (152 or 203 mm) round outside air intake connection uses the same vents and/or adapters as the AIO Wall Mounted or Wall Mounted Pro.
- **Outside air exhaust**
  The 6-inch or 8-inch (152 or 203 mm) round exhaust connection uses the same vents and/or adapters as the AIO Wall Mounted or Wall Mounted Pro.

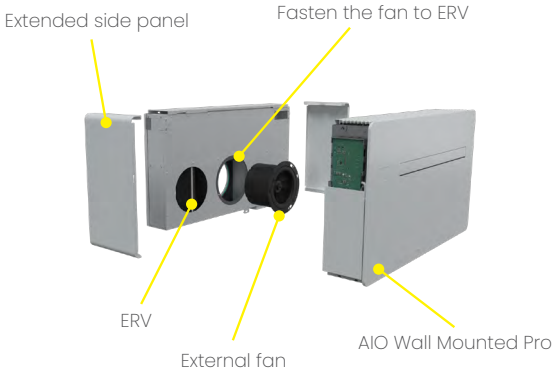


Combining with Wall Mounted Pro

Fan in Wall Option

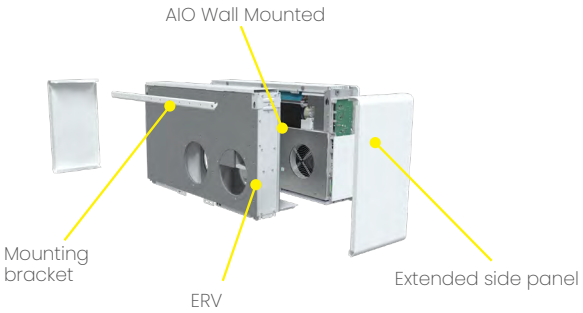


Fan in ERV Option

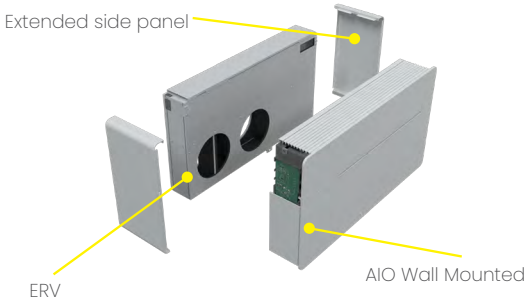


Combining with Wall Mounted Standard

Rear View



Front View



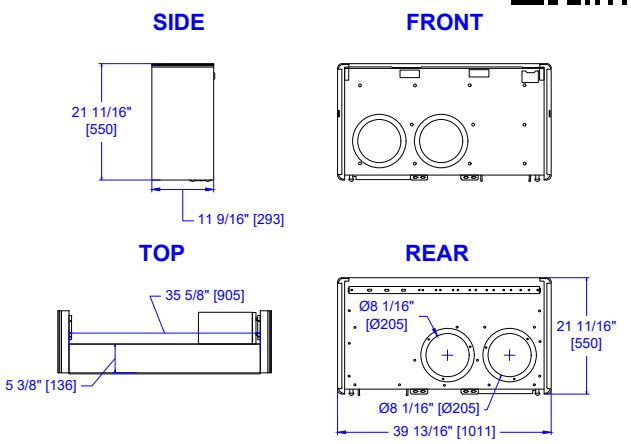
Technical Specifications

Airflow				
Fresh air intake	Type		ECM centrifugal	
	CFM (m³/h)		10 - 30 (17 - 51)	
	Speeds		Based on CFM	
	Filter		MERV 13	
Stale air exhaust	Type		ECM centrifugal	
	CFM (m³/h)		10 - 30 (17 - 51)	
	Available ESP		N/A	
	Connection		Integrated	
	Speeds		Based on CFM	
	Filter		MERV 13	
Sound				
Indoor		dB(A)	24 - 40	
Controls				
Basic functionality			Dependent on controller	
WiFi			Included	
Dry contact			Yes	
Power outage restart			Auto-on based on last setting	
Modes				
Operation			Fresh Air on/ Fresh Air off	
Amount of Fresh Air			Field configured	
Timers			Dependent on controller	
Condensate				
Pipe		Size	1/2" (13 mm) outside diameter	
		Material	Rubber	
Core				
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	
Efficiency of Core in Winter			**15 CFM (26 m³/h)**	**20 CFM (34 m³/h)**	**25 CFM (43 m³/h)**
Sensible		%	81.4	79.4	77.5
Latent		%	68.5	65.4	62.3
Efficiency of Core in Summer					
Sensible		%	70.2	67.6	65.1
Latent		%	52.4	52.9	53.5
Filter					
Indoor air		MERV	MERV 3 / optional MERV 13		
Outside air		MERV	MERV 13		
Leakage					
Internal		in. WC (Pa)	2.6% at 0.40" (100)	2.4% at 0.40" (100)	2.2% at 0.40" (100)
External		in. WC (Pa)	2.8% at 1.0" (249)	2.7% at 1.0" (249)	2.5% at 1.0" (249)

		115V/230V
Electrical Data		
Volt range		98 - 250
Hz/ phase		60 Hz single phase
Power supply		Connects to AIO Wall Mounted via wiring harness
Input power (standby)	W	1.2
Input power (off mode)	W	0.5
Motors		
Fresh air intake ECM fan motor	W (max)	5.45
	F.L.A.	0.5
	HP	0.04
Stale air exhaust ECM fan motor	W (max)	5.45
	F.L.A.	0.3
	HP	0.04
Dimensions of ERV		
Dimensions		39.7" W x 21.9" H x 5.5" D
		1,008 mm W x 556 mm H x 140 mm D
Dimensions with AIO Wall Mounted		
Dimensions		39.9" W x 21.7" H x 11.5" D
		1,014 mm W x 551 mm H x 292 mm D
Net weight	lb (kg)	135 (61.2)
Gross weight	lb (kg)	140 (63.5)
Cabinet finish		RAL 9003 signal white
Cabinet material		Steel

Dimensions

For CAD and DWG files, please scan or click the QR code.





External Nebulizer Kit

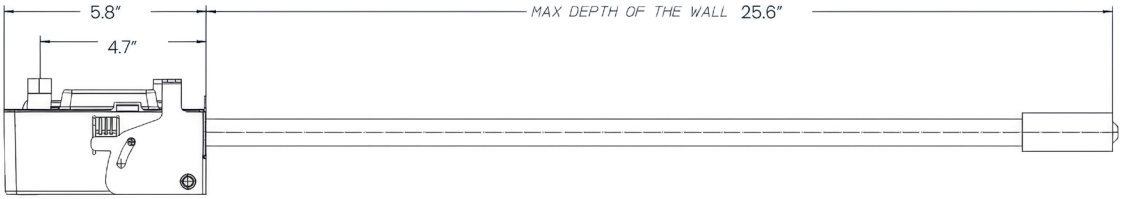
NEW

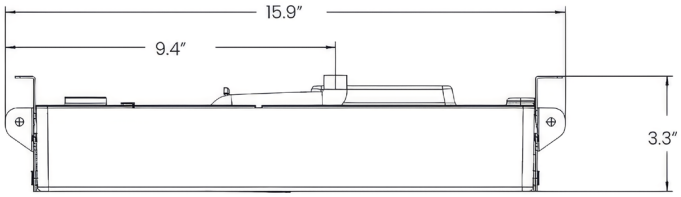
The **External Nebulizer Kit** manages condensate from the AIO Wall Mounted unit's drain pan. It collects water, vaporizes it through a heated nozzle and integrated heater, and discharges it safely outdoors through a heated tube. This process ensures reliable condensate removal in low-temperature conditions and prevents freezing or blockages. The Nebulizer connects to the ERV connection port for power.

The Nebulizer Kit can be mounted beneath the unit or directly on the wall. It connects to the ERV port for power and requires a 1.3-inch (33 mm) wall opening for the heated pipe and nozzle.



Dimensions









AIO Floor Standing

NEW

AIO Floor Standing units are the latest addition to our AIO product line. This unit fortifies our commitment to providing a complete range of products that allow you to find the right model for every type of installation. The AIO Floor Standing unit is just 22.7 inches (578 mm) wide and is a perfect fit between two windows or at an angle. The onboard touch controller simplifies use and installation.



Key Features

- Compact unit
- Easy to install
- Paintable, sleek cabinet
- Auto-restart
- Washable filters

Options

- 115V or 230V
- Hardwire or LCDI cord
- R32
- 0.9 kW heat strip

Operation

- Cool, heat, dehumidify, and auto
- Selectable fan speeds, low, med, high, and auto

Airflow

- Dual 8-inch (203 mm) external vents
- Available 0.25" WC (62 Pa) for louvers

Included Controllers

- Onboard touch controller

Optional Controllers

- WiFi app for Android and iPhone
- Wall Mounted Advanced touchscreen with a 7-day program
- Wall Mounted Basic touch controller
- Third-party thermostat interface
- BACnet/Modbus interface

Installation



Key Specifications

			95°F (35°C)[1]	105°F (41°C)[2]	115°F (46°C)[3]
Cooling - Heat Pump Only					
Capacity	Maximum	kBtu/h (kW)	10.2 (3.0)	8.0 (2.3)	7.5 (2.2)
	Recommended*		9.3 (2.7)	7.6 (2.2)	7.1 (2.1)
	Nominal		9.3 (2.7)	7.4 (2.2)	7.1 (2.1)
	Minimum		3.9 (1.1)	3.3 (1.0)	3.3 (1.0)
Power input	Maximum	kW	1.25	1.06	1.08
	Recommended*		1.02	1.00	0.98
	Nominal		1.02	0.90	0.98
	Minimum		0.20	0.24	0.27
Efficiency	Maximum		8.2	7.5	7.0
	Recommended		9.1	7.6	7.2
	Nominal		9.1	8.2	7.2
	SEER2		13.7	-	-
Moisture removal		Pts/h (L/h)	1.8 (0.8)	2.1 (1.0)	2.3 (1.1)

			47°F (8°C)[4]	17°F (-8°C)[5]	5°F (-15°C)[6]	0°F (-18°C)[7]	-5°F (-21°C)[8]
Heating - Heat Pump Only**							
Capacity	Maximum	kBtu/h (kW)	10.1 (3.0)	8.3 (2.4)	6.0 (1.8)	5.7 (1.7)	5.3 (1.6)
	Recommended*		9.2 (2.7)	7.4 (2.2)	5.3 (1.6)	5.7 (1.7)	5.3 (1.6)
	Nominal		9.2 (2.7)	7.4 (2.2)	5.3 (1.6)	5.1 (1.5)	4.9 (1.4)
	Minimum		3.0 (0.9)	3.0 (0.9)	3.0 (0.9)	3.0 (0.9)	3.0 (0.9)
Power input	Maximum	kW	1.03	0.79	1.43	1.39	1.32
	Recommended*		0.85	0.72	0.95	0.90	1.32
	Nominal		0.77	0.72	0.95	0.90	0.93
	Minimum		0.27	0.41	0.42	0.59	0.43
Efficiency	Maximum		2.9	3.1	1.2	1.2	1.2
	Recommended		3.2	3.0	1.6	1.6	1.2
	Nominal		3.5	3.0	1.7	1.7	1.6
	Minimum		3.3	2.1	2.1	2.1	2.0
	HSPF2		7.0	-	-	-	-

1 **95°F (35°C)** 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 **105°F (41°C)** 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 **115°F (46°C)** 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)
4 **47°F (8°C)** 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)
5 **17°F (-8°C)** ID: 70°F(21.1°C), W.B. 60°F(15.6°C); OD: 17°F(-8.3°C), W.B. 13°F(-10.6°C)
6 **5°F (-15°C)** 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)
7 **0°F (-18°C)** ID: 70°F(21.1°C), W.B. 60°F(15.6°C); OD: 0°F(-17.8°C)
8 **-5°F (-21°C)** ID: 70°F(21.1°C), W.B. 60°F(15.6°C); OD: -5°F (-20.6°C)

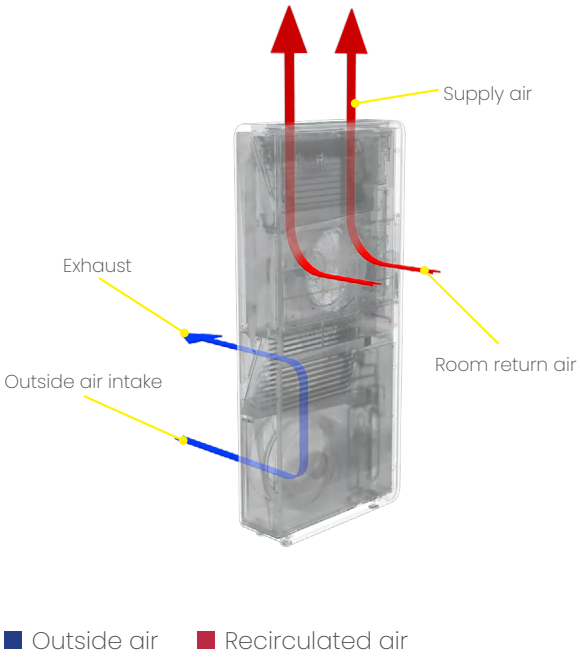
* This is the recommended capacity for sizing the unit to the space.

** The tables show Heat Pump performance only. An electric heating element can be added to provide an additional output of 3.1 kBtu/h (0.9 kW).

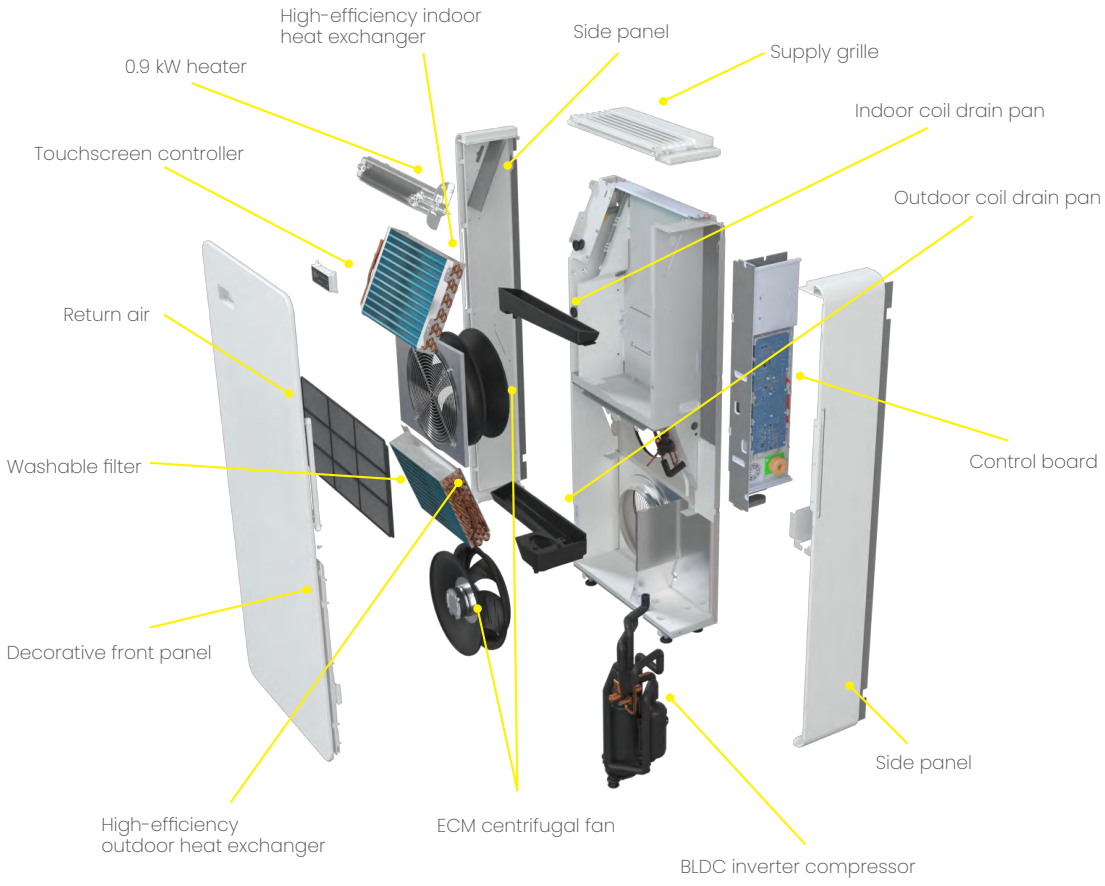
Airflow

In addition to the typical twin external vents, AIO Floor Standing can attach to a sidewall adapter enabling mounting on a wall perpendicular to the outside.

- **Supply air**
  The supply air comes through the top with an adjustable grille.
- **Return air**
  The return air is on the top through the integrated return air grille.
- **Outside air intake**
  The 8-inch (203 mm) outside air intake connection works with any of the approved or custom louvers as long as they comply with the minimum requirements.
- **Outside air exhaust**
  The 8-inch (203 mm) round outside air exhaust connection works with any of the approved or custom louvers as long as they comply with the minimum requirements.



What's Inside



Technical Specifications

Airflow		
Indoor	Type	ECM centrifugal
	CFM (m³/h)	165 - 412 (280 - 700)
	Available ESP	N/A
	Fan Modes	Low, med, high, auto
	Supply connection	Integrated
	Return connection	Integrated
	Filter	MERV 3
Outdoor	Type	ECM centrifugal
	CFM (m³/h)	200 - 350 (340 - 595)
	Available ESP	0.25" WC (62 Pa)
	Intake connection	8" (203 mm) round
	Exhaust connection	8" (203 mm) round
General		
Compressor	Type	BLDC twin rotary inverter
	Oil Type	Fv50s (ISO 50) Polyvinylether (PVE)
Controls	Basic Functionality	Dependent on controller
	WiFi	Optional module available
	Dry Contact	Yes
Modes	Operation	Cool, heat, dehumidify, auto, fan only
	Restricted Modes	Heat only, cool only, temperature limiting
	Timers	Dependent on the controller
Condensate	Pipe size	3/4" (19 mm) outside diameter
	Pipe Material	Rubber
Sound		
Indoor	DB range: dB(A)	27 - 41
	STC	37
	OITC	28
Outdoor	dB(A)	28 - 52

			AHRI		Energy Star Certified	
Electrical Data: Heat Pump Only*			**115V**	**230V**	**115V**	**230V**
Power Supply		Ph/Hz	1/60		1/60	
Power Factor			0.96		0.96	
Input Power - standby		W	10.8		10.8	
Input Power - off mode			1.5		1.5	
Running Amps Cooling		A	7.7	3.4	7.7	3.4
Max. Amps Cooling			9.6	7.8	9.6	7.8
Running Amps Heating			5.1	2.6	5.1	2.6
Max. Amps Heating			10.4	5.2	10.4	5.2
MCA			13	7	13	7
MOCP			25	15	25	15

* See the Post Heater table.

Electrical connection			115V	230V
LCDI Power Cord	Amps	A	20	15
	Plug	NEMA	5-20P	6-15P
Quick-connect whip	Length	in (mm)	40 (1,016)	40 (1,016)

Electrical (General) - Motors			115V	230V
Compressor	RLA	A	7.9	3.9
	LRA		7.9	3.9
Indoor ECM fan motor	Max Watts	W	50	50
	F.L.A.	A	0.4	0.3
	Power	HP	0.07	0.07
Outdoor ECM fan motor	Max Watts	W	90	90
	F.L.A.	A	0.8	0.4
	Power	HP	0.12	0.12

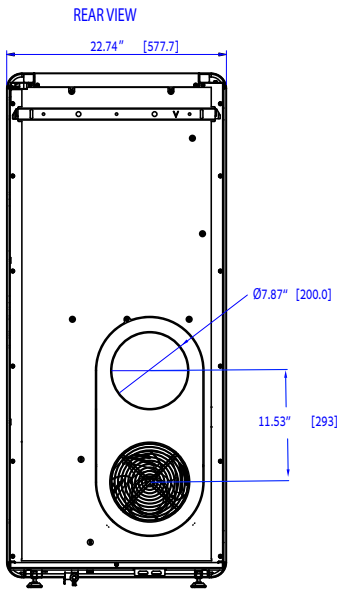
Post Heater Output and Current

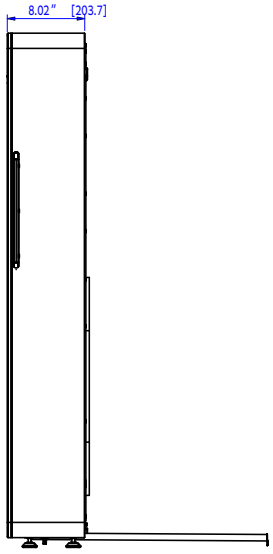
	900 W
115 V	900 W / 7.8 A
208 V	736 W / 3.5 A
230 V	900 W / 3.9 A
240 V	980 W / 4.1 A

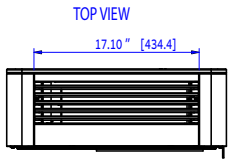
Unit Dimensions and Mechanical Details		
Dimensions		22.74" x 52.22" x 8.02" depth
		578 mm x 1,326 mm x 204 mm depth
Net weight	lb (kg)	100 (45.4)
Gross weight		105 (47.6)
Cabinet finish		RAL 9003 signal white
Cabinet material		Steel

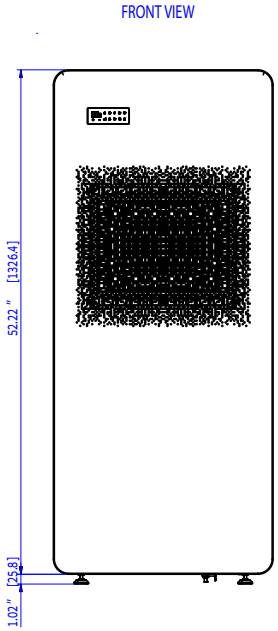
Dimensions

For CAD and DWG files, please scan or click the QR code below.











AIO Ceiling Suspended

The AIO Ceiling Suspended unit is hung from the ceiling unobtrusively. These units are ideal for retrofit applications where it is desirable to have the unit "out of reach." Ceiling Suspended units are suitable for dormitories, budget rental apartments or hotels, or anywhere a ceiling-mounted unit is desired. Ceiling Suspended units are available with or without the integrated ERV and can be vented directly outside or through ductwork. Watch how it is installed by scanning or clicking the QR code.



Key Features

- Compact unit
- Easy to install
- Paintable, sleek cabinet
- Electronically controlled air louver
- Always-on back-lit LED dims after 15 seconds of inactivity
- Auto-restart
- Washable filters

Options

- Optional 0.9 or 1.8 kW electric heat
- 115V or 230V
- Hardwire or LCDI cord
- R32

Operation

- Cool, heat, dehumidify, and auto
- Selectable fan speeds, low, med, high, and auto

Mounting

- Ceiling

Airflow

- Dual 6" (152 mm) external vents
- Available 0.45" WC (112 Pa) for external ducting, adapters, and louvers

Included Controllers

- Onboard touch controller

Optional Controllers

- WiFi app for Android and iPhone
- Wall Mounted Advanced touchscreen with a 7-day program
- Wall Mounted Basic touch controller
- Third-party thermostat interface
- BACnet/Modbus interface

Installation



Ducted external vent



Direct existing window vent



Shared supply and exhaust vents

Key Specifications

High Performance & High Efficiency

			AHRI			Energy Star Certified		
			95°F (35°C)[1]	105°F (41°C)[2]	115°F (46°C)[3]	95°F (35°C)[1]	105°F (41°C)[2]	115°F (46°C)[3]
Cooling - Heat Pump Only								
Capacity	Maximum	kBtu/h (kW)	15.0 (4.4)	11.4 (3.3)	9.8 (2.9)	15.0 (4.4)	11.4 (3.3)	9.8 (2.9)
	Recommended*		9.4 (2.8)	8.2 (2.4)	7.3 (2.1)	9.4 (2.8)	8.2 (2.4)	7.3 (2.1)
	Nominal		7.7 (2.3)	7.4 (2.2)	6.6 (1.9)	6.1 (1.8)	7.4 (2.2)	6.6 (1.9)
	Minimum		3.1 (0.9)	3.1 (0.9)	3.1 (0.9)	3.1 (0.9)	3.1 (0.9)	3.1 (0.9)
Power input	Maximum	kW	1.58	1.64	1.70	1.58	1.64	1.70
	Recommended*		0.96	0.95	1.04	0.96	0.95	1.04
	Nominal		0.73	0.83	0.90	0.53	0.83	0.90
	Minimum		0.23	0.26	0.29	0.23	0.26	0.29
Efficiency	Maximum		9.5	7.0	5.8	9.5	7.0	5.8
	Recommended		9.8	8.6	7.0	9.8	8.6	7.0
	Nominal		10.6	8.9	7.3	11.6	8.9	7.3
	SEER2		13.9	-	-	15.3	-	-
Moisture removal		Pts/h (L/h)	1.8 (0.9)	2.0 (0.9)	2.2 (1.0)	1.8 (0.9)	2.0 (0.9)	2.2 (1.0)

			AHRI				Energy Star Certified			
			47°F (8°C)[4]	17°F (-8°C)[5]	5°F (-15°C)[6]	0°F (-18°C)[7]	-5°F (-21°C)[8]	47°F (8°C)[4]	17°F (-8°C)[5]	5°F (-15°C)[6]	0°F (-18°C)[7]	-5°F (-21°C)[8]
Heating - Heat Pump Only**												
Capacity	Maximum	kBtu/h (kW)	14.0 (4.1)	10.0 (2.9)	6.6 (1.9)	6.3 (1.8)	5.8 (1.7)	14.0 (4.1)	10.0 (2.9)	6.6 (1.9)	6.3 (1.8)	5.8 (1.7)
	Recommended*		9.2 (2.7)	8.3 (2.4)	6.2 (1.8)	5.9 (1.7)	5.6 (1.6)	9.2 (2.7)	8.3 (2.4)	6.2 (1.8)	5.9 (1.7)	5.6 (1.6)
	Nominal		8.6 (2.5)	8.3 (2.4)	6.2 (1.8)	5.9 (1.7)	5.6 (1.6)	8.2 (2.4)	7.8 (2.3)	5.9 (1.7)	5.9 (1.7)	5.6 (1.6)
	Minimum		3.5 (1.0)	3.3 (1.0)	2.8 (0.8)	2.5 (0.7)	2.5 (0.7)	3.5 (1.0)	3.3 (1.0)	2.8 (0.8)	2.5 (0.7)	2.5 (0.7)
Power input	Maximum	kW	1.42	1.46	1.70	1.60	1.65	1.42	1.46	1.70	1.60	1.65
	Recommended*		0.77	0.86	1.09	1.06	1.01	0.77	0.86	1.09	1.06	1.01
	Nominal		0.70	0.86	1.09	1.06	1.01	0.64	0.80	0.99	1.06	1.01
	Minimum		0.32	0.42	0.44	0.43	0.48	0.32	0.42	0.44	0.43	0.48
Efficiency	Maximum		2.9	2.0	1.1	1.1	1.0	2.9	2.0	1.1	1.1	1.0
	Recommended		3.5	2.8	1.7	1.6	1.6	3.5	2.8	1.7	1.6	1.6
	Nominal		3.6	2.8	1.7	1.6	1.6	3.8	2.8	1.8	1.6	1.6
	Minimum		3.3	2.3	1.9	1.7	1.5	3.3	2.3	1.9	1.7	1.5
	HSPF2		9.2	-	-	-	-	9.2	-	-	-	-

1 **95°F (35°C)** 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 **105°F (41°C)** 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 **115°F (46°C)** 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)
4 **47°F (8°C)** 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)
5 **17°F (-8°C)** ID: 70°F(21.1°C), W.B. 60°F(15.6°C); OD: 17°F(-8.3°C), W.B. 13°F(-10.6°C)
6 **5°F (-15°C)** 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)
7 **0°F (-18°C)** ID: 70°F(21.1°C), W.B. 60°F(15.6°C); OD: 0°F(-17.8°C)
8 **-5°F (-21°C)** ID: 70°F(21.1°C), W.B. 60°F(15.6°C); OD: -5°F (-20.6°C)

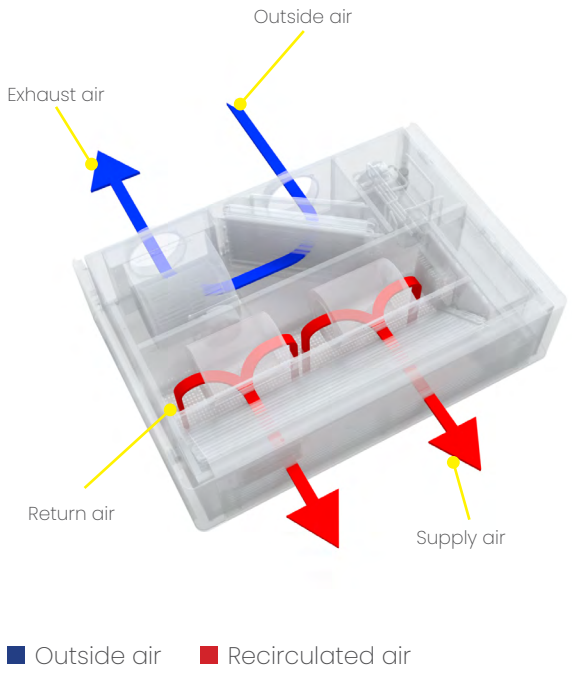
* This is the recommended capacity for sizing the unit to the space.

** The tables show Heat Pump performance only. An electric heating element can be added to provide an additional output of 3.1 or 6.1 kBtu/h (0.9 or 1.8 kW).

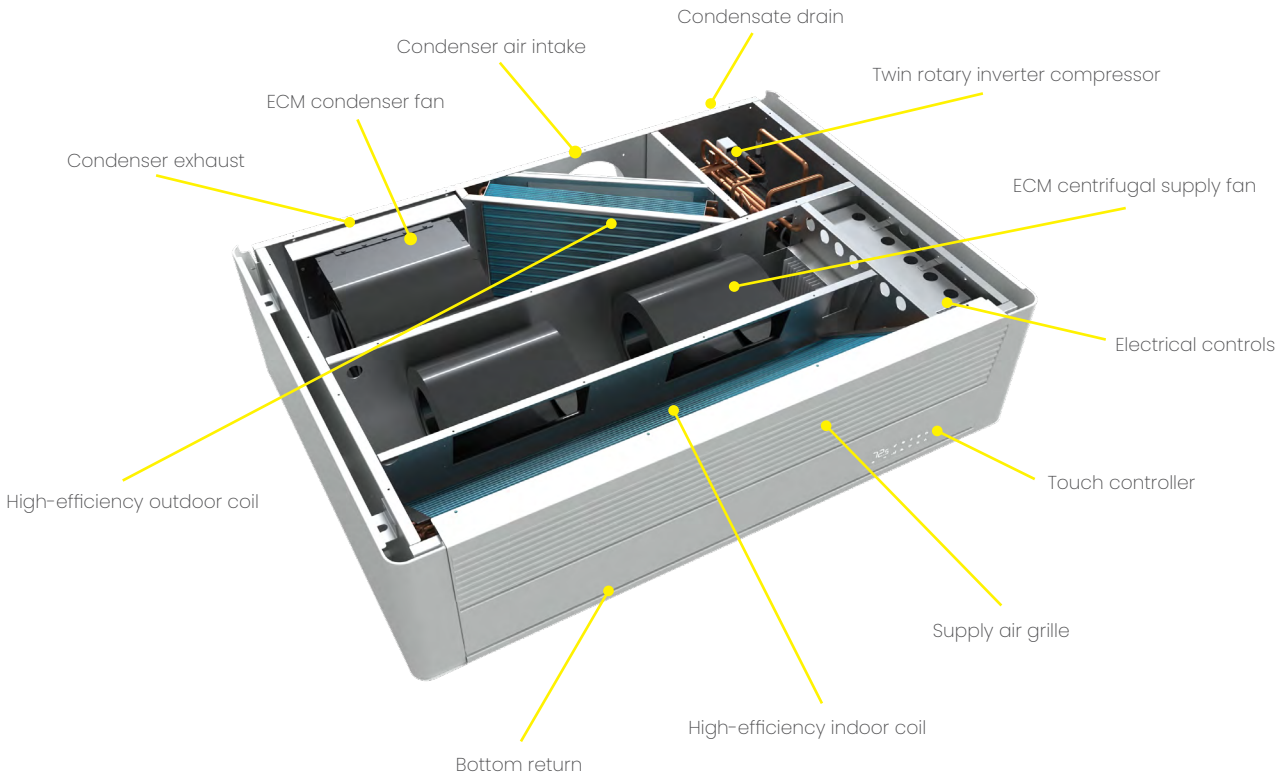
Airflow

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

- **Supply air**
  The supply air is through the front fixed louver.
- **Return air**
  The room air is returned into the unit through the integrated return air grille on the bottom of the unit.
- **Outside air intake**
  The single 6" (152 mm) round outside air intake connection provides air for the condenser portion. This can be ducted with up to 0.45" WC (112 Pa) external static pressure (combined between intake and exhaust).
- **Outside air exhaust**
  The single 6" (152 mm) round outside air exhaust connection is for the condenser portion. This can be ducted with up to 0.45" WC (112 Pa) external static pressure (combined between intake and exhaust).



What's Inside



Technical Specifications

Airflow		
Indoor	Type	ECM centrifugal
	CFM (m³/h)	226 - 350 (384 - 595)
	Fan Modes	Low, med, high, boost, auto
	Available ESP	N/A
	Supply connection	Integrated front
	Return connection	Integrated bottom
	Filter	MERV 3
Outdoor	Type	ECM centrifugal
	CFM (m³/h)	385 - 638 (654 - 1,084)
	Available ESP	0.45" WC (112 Pa)
	Intake connection	6" (152 mm) round
	Exhaust connection	6" (152 mm) round
	Speeds	Low, med, high, auto
General		
Compressor	Type	BLDC twin rotary inverter
	Oil Type	Fv50s
Controls	Basic Functionality	Dependent on controller
	WiFi	Optional module available
	Power Outage Restart	Auto-on based on last setting
	Dry Contact	Yes
Modes	Operation	Cool+ fresh air, cool only, heat+ fresh air, heat only, auto
	Restricted Modes	Heat only, cool only, temperature limiting
	Timers	Dependent on the controller
Condensate	Pipe size	3/4" (19 mm) outside diameter
	Pipe Material	Rubber
Sound		
Indoor	DB range: dB(A)	27 - 43
	STC	40
	OITC	35
Outdoor	dB(A)	28 - 55

		AHRI		Energy Star Certified	
Electrical Data: Heat Pump Only*		**115V**	**230V**	**115V**	**230V**
Power Supply	Ph/Hz	1/60		1/60	
Power Factor		0.96		0.96	
Input Power - standby	W	10.8		10.8	
Input Power - off mode	W	1.5		1.5	
Running Amps Cooling	A	8.2	4.1	8.2	4.1
Max. Amps Cooling	A	19.1	9.0	19.1	9.0
Running Amps Heating	A	10.0	5.0	10.0	5.0
Max. Amps Heating	A	19.8	9.0	19.8	9.0
MCA	A	24	11	24	11
MOCP	A	35	15	35	15

Electrical Connection			115V	230V
LCDI Power Cord	Amps	A	N/A	15
	Plug	NEMA	N/A	6-15P
Quick-connect whip	Length	in (mm)	40 (1,016)	40 (1,016)
Electrical (General) - Motors				
Compressor	RLA	A	13	6
	LRA	A	13	6
Indoor ECM fan motor	Max Watts	W	260	190
	F.L.A.	A	3.4	1.2
	Power	HP	0.125	0.1
Outdoor ECM fan motor	Max Watts	W	220	200
	F.L.A.	A	2.8	1.4
	Power	HP	0.1	0.1

Post Heater

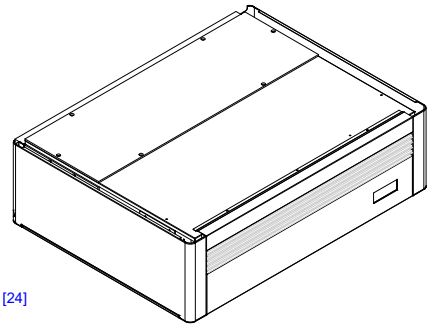
	900 W	1,800 W	2,700 W
115 V	900 W / 7.8 A	N/A	N/A
208 V	736 W / 3.5 A	1,472 W / 7.1 A	2,200 W / 10.6 A
230 V	900 W / 3.9 A	1,800 W / 7.8 A	2,700 W / 11.7 A
240 V	980 W / 4.1 A	1,960 W / 8.2 A	3,000 W / 12.5 A

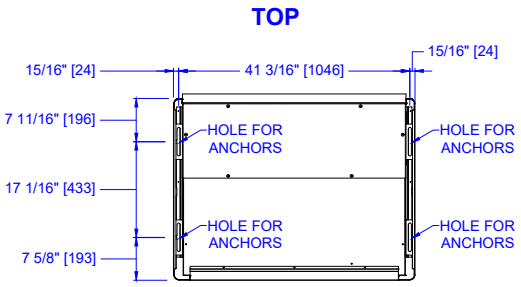
Unit Dimensions and Mechanical Details		
Dimensions		43.0" W x 32.4" D x 12.4" H
		1,092 mm W x 823 mm D x 315 mm H
Net weight	lb (kg)	156 (70.8)
Gross weight	lb (kg)	165 (74.8)
Cabinet finish		RAL 9003 signal white
Cabinet material		Steel

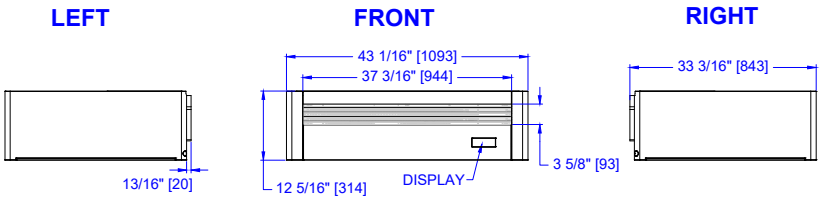
* See the Post Heater table.

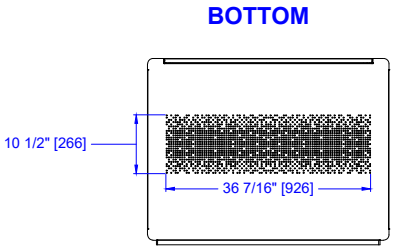
Dimensions

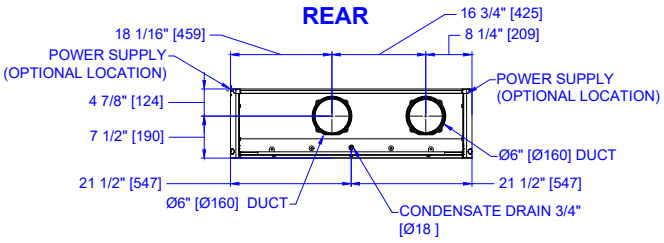
For CAD and DWG files, please scan or click the QR code below.













AIO Ceiling Suspended w/ERV

The AIO Ceiling Suspended with ERV is hung from the ceiling unobtrusively. These units are ideal for retrofit applications where it is desirable to have the unit "out of reach." Ceiling Suspended units are suitable for dormitories, budget rental apartments or hotels, or anywhere a ceiling-mounted unit is desired. Ceiling Suspended units can be vented directly outside or through ductwork. Watch how it is installed by scanning or clicking the QR code.



Key Features
- Compact unit
- Easy to install
- Paintable, sleek cabinet
- Electronically controlled air louver
- Always-on back-lit LED dims after 15 seconds of inactivity
- Auto-restart
- Washable filters
- Preheater for extreme cold climates

Options
- Optional 0.9 or 1.8 kW electric heat
- 115V or 230V
- Hardwire or LCDI cord
- R32

Operation
- Cool, heat, dehumidify, and auto
- Selectable fan speeds, low, med, high, and auto
- Fresh air ERV - field configurable amount of fresh air

Mounting
- Ceiling

Airflow
- Dual 8" (203 mm) external vents
- Available 0.7" WC (174 Pa) for external ducting, adapters, and louvers

Included Controllers
- Onboard touch controller

Optional Controllers
- WiFi app for Android and iPhone
- Wall Mounted Advanced touchscreen with a 7-day program
- Wall Mounted Basic touch controller
- Third-party thermostat interface
- BACnet/Modbus interface

Installation



Ducted external vent



Direct existing window vent



Shared supply and exhaust vents

Key Specifications

High Performance & High Efficiency

			AHRI			Energy Star Certified		
			95°F (35°C)[1]	105°F (41°C)[2]	115°F (46°C)[3]	95°F (35°C)[1]	105°F (41°C)[2]	115°F (46°C)[3]
Cooling - Heat Pump Only								
Capacity	Maximum	kBtu/h (kW)	15.0 (4.4)	11.4 (3.3)	9.8 (2.9)	15.0 (4.4)	11.4 (3.3)	9.8 (2.9)
	Recommended*		9.4 (2.8)	8.2 (2.4)	7.3 (2.1)	9.4 (2.8)	8.2 (2.4)	7.3 (2.1)
	Nominal		7.7 (2.3)	7.4 (2.2)	6.6 (1.9)	6.1 (1.8)	7.4 (2.2)	6.6 (1.9)
	Minimum		3.1 (0.9)	3.1 (0.9)	3.1 (0.9)	3.1 (0.9)	3.1 (0.9)	3.1 (0.9)
Power input	Maximum	kW	1.58	1.64	1.70	1.58	1.64	1.70
	Recommended*		0.96	0.95	1.04	0.96	0.95	1.04
	Nominal		0.73	0.83	0.90	0.53	0.83	0.90
	Minimum		0.23	0.26	0.29	0.23	0.26	0.29
Efficiency	Maximum		9.5	7.0	5.8	9.5	7.0	5.8
	Recommended		9.8	8.6	7.0	9.8	8.6	7.0
	Nominal		10.6	8.9	7.3	11.6	8.9	7.3
	SEER2		13.9	-	-	15.3	-	-
Moisture removal		Pts/h (L/h)	1.8 (0.9)	2.0 (0.9)	2.2 (1.0)	1.8 (0.9)	2.0 (0.9)	2.2 (1.0)

			AHRI				Energy Star Certified			
			47°F (8°C)[4]	17°F (-8°C)[5]	5°F (-15°C)[6]	0°F (-18°C)[7]	-5°F (-21°C)[8]	47°F (8°C)[4]	17°F (-8°C)[5]	5°F (-15°C)[6]	0°F (-18°C)[7]	-5°F (-21°C)[8]
Heating - Heat Pump Only**												
Capacity	Maximum	kBtu/h (kW)	14.0 (4.1)	10.0 (2.9)	6.6 (1.9)	6.3 (1.8)	5.8 (1.7)	14.0 (4.1)	10.0 (2.9)	6.6 (1.9)	6.3 (1.8)	5.8 (1.7)
	Recommended*		9.2 (2.7)	8.3 (2.4)	6.2 (1.8)	5.9 (1.7)	5.6 (1.6)	9.2 (2.7)	8.3 (2.4)	6.2 (1.8)	5.9 (1.7)	5.6 (1.6)
	Nominal		8.6 (2.5)	8.3 (2.4)	6.2 (1.8)	5.9 (1.7)	5.6 (1.6)	8.2 (2.4)	7.8 (2.3)	5.9 (1.7)	5.9 (1.7)	5.6 (1.6)
	Minimum		3.5 (1.0)	3.3 (1.0)	2.8 (0.8)	2.5 (0.7)	2.5 (0.7)	3.5 (1.0)	3.3 (1.0)	2.8 (0.8)	2.5 (0.7)	2.5 (0.7)
Power input	Maximum	kW	1.42	1.46	1.70	1.60	1.65	1.42	1.46	1.70	1.60	1.65
	Recommended*		0.77	0.86	1.09	1.06	1.01	0.77	0.86	1.09	1.06	1.01
	Nominal		0.70	0.86	1.09	1.06	1.01	0.64	0.80	0.99	1.06	1.01
	Minimum		0.32	0.42	0.44	0.43	0.48	0.32	0.42	0.44	0.43	0.48
Efficiency	Maximum		2.9	2.0	1.1	1.1	1.0	2.9	2.0	1.1	1.1	1.0
	Recommended		3.5	2.8	1.7	1.6	1.6	3.5	2.8	1.7	1.6	1.6
	Nominal		3.6	2.8	1.7	1.6	1.6	3.8	2.8	1.8	1.6	1.6
	Minimum		3.3	2.3	1.9	1.7	1.5	3.3	2.3	1.9	1.7	1.5
	HSPF2		9.2	-	-	-	-	9.2	-	-	-	-

1 **95°F (35°C)** 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 **105°F (41°C)** 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 **115°F (46°C)** 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)
4 **47°F (8°C)** 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)
5 **17°F (-8°C)** ID: 70°F(21.1°C), W.B. 60°F(15.6°C); OD: 17°F(-8.3°C), W.B. 13°F(-10.6°C)
6 **5°F (-15°C)** 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)
7 **0°F (-18°C)** ID: 70°F(21.1°C), W.B. 60°F(15.6°C); OD: 0°F(-17.8°C)
8 **-5°F (-21°C)** ID: 70°F(21.1°C), W.B. 60°F(15.6°C); OD: -5°F (-20.6°C)

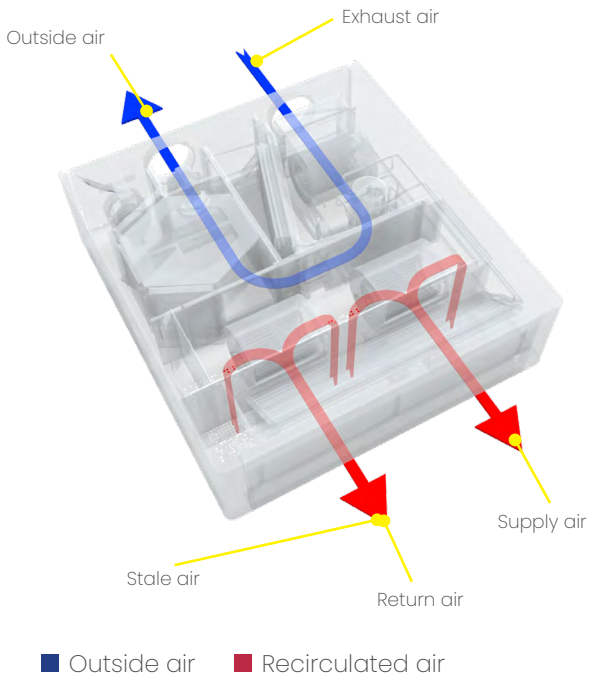
* This is the recommended capacity for sizing the unit to the space.

** The tables show Heat Pump performance only. An electric heating element can be added to provide an additional output of 3.1 or 6.1 kBtu/h (0.9 or 1.8 kW).

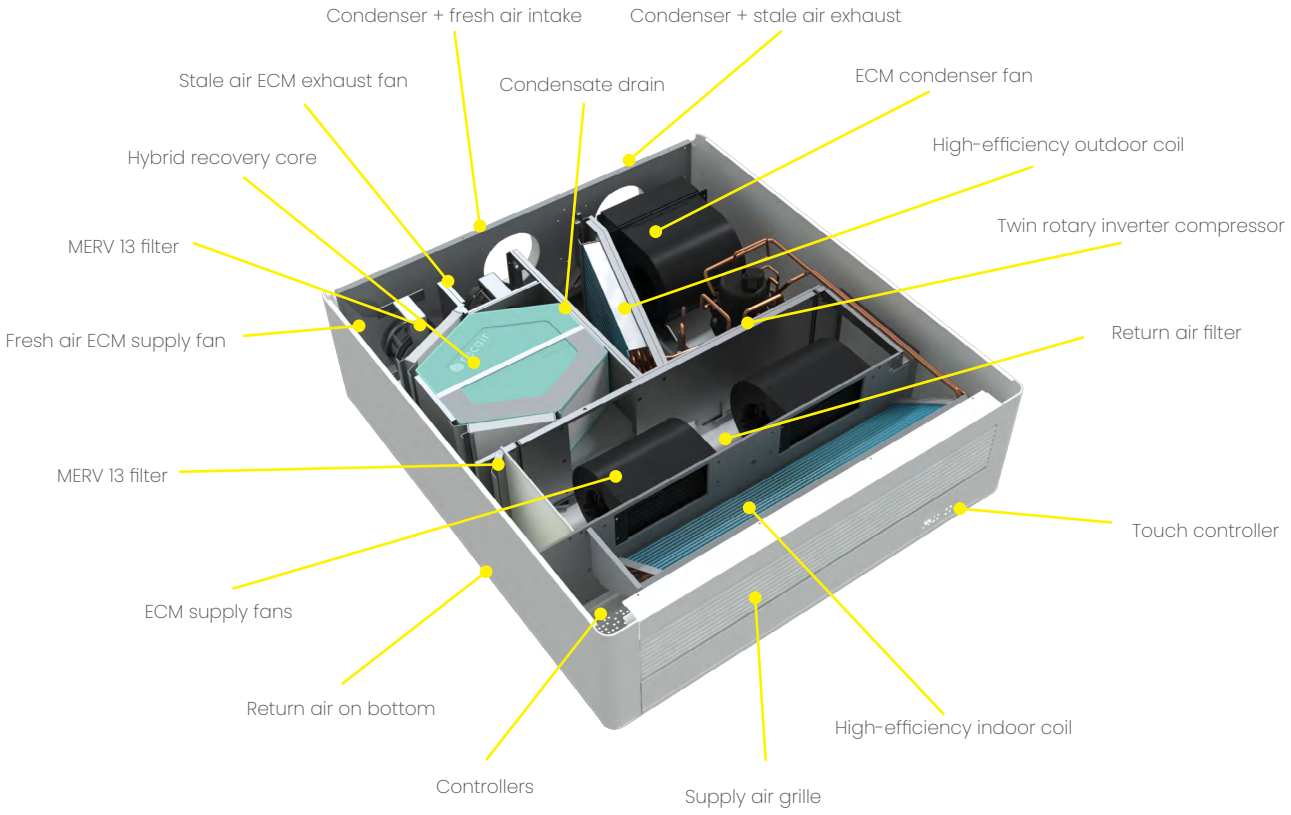
Airflow

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

- **Supply air**
  The supply air is through the fixed front louver.
- **Stale air exhaust**
  The room air and exhaust air are returned to the unit through the integrated return air grille on the bottom of the unit.
- **Outside air intake**
  The single 8" (203 mm) round outside air intake connection provides air for the condenser portion and fresh air for the inside. With the ERV, this can be ducted with up to 0.7" WC (174 Pa) external static pressure (combined between intake and exhaust).
- **Outside air exhaust**
  The single 8" (203 mm) round outside air exhaust connection is for the condenser portion and the stale air exhaust. With the ERV, this can be ducted with up to 0.7" WC (174 Pa) external static pressure (combined between intake and exhaust).



What's Inside



Technical Specifications

Airflow		
Indoor	Type	ECM centrifugal
	CFM (m³/h)	226 - 350 (384 - 595)
	Fan Modes	Low, med, high, boost, auto
	Available ESP	N/A
	Supply connection	Integrated front
	Return connection	Integrated bottom
	Filter	MERV 3
Outdoor	Type	ECM centrifugal
	CFM (m³/h)	385 - 638 (654 - 1,084)
	Available ESP	0.7" WC (174 Pa, with ERV), 0.45" (112 Pa, no ERV)
	Intake connection	8" (203 mm) round
	Exhaust connection	8" (203 mm) round
	Speeds	Low, med, high, auto
General		
Compressor	Type	BLDC twin rotary inverter
	Oil Type	Fv50s
Controls	Basic Functionality	Dependent on controller
	WiFi	Optional module available
	Power Outage Restart	Auto-on based on last setting
	Dry Contact	Yes
Modes	Operation	Cool+ fresh air, cool only, heat+ fresh air, heat only, auto
	Restricted Modes	Heat only, cool only, temperature limiting
	Timers	Dependent on the controller
Condensate	Pipe size	3/4" (19 mm) outside diameter
	Pipe Material	Rubber

ERV				
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		
Efficiency of Core in Winter		**40 CFM (68 m³/h)**	**60 CFM (102 m³/h)**	**80 CFM (136 m³/h)**
Sensible	%	81.8	78.2	74.6
Latent		58.4	58.7	51.1
Efficiency of Core in Summer				
Sensible	%	80.6	76.6	72.5
Latent		57.5	53.4	49.3
Filter				
Indoor air	MERV	MERV 3 / optional MERV 13		
Outside air		MERV 13		
Leakage				
Internal	in. WC (Pa)	2.6% at 0.40" (100)	2.4% at 0.40" (100)	2.2% at 0.40" (100)
External		2.8% at 1.0" (249)	2.7% at 1.0" (249)	2.5% at 1.0" (249)

		AHRI		Energy Star Certified	
Electrical Data: Heat Pump Only*		**115V**	**230V**	**115V**	**230V**
Power Supply	Ph/Hz	1/60		1/60	
Power Factor		0.96		0.96	
Input Power - standby	W	10.8		10.8	
Input Power - off mode		1.5		1.5	
Running Amps Cooling	A	8.2	4.1	8.2	4.1
Max. Amps Cooling		20.9	9.5	20.9	9.5
Running Amps Heating		10.0	5.0	10.0	5.0
Max. Amps Heating		20.9	9.5	20.9	9.5
MCA		25	11	25	11
MOCP		35	15	35	15

* See the Post and Pre Heater table.

Electrical Connection			115V	230V
LCDI Power Cord	Amps	A	N/A	15
	Plug	NEMA	N/A	6-15P
Quick-connect whip	Length	in (mm)	40 (1,016)	40 (1,016)

Electrical (General) - Motors				
Compressor	RLA	A	13	6
	LRA		13	6
Indoor ECM fan motor	Max Watts	W	260	200
	F.L.A.	A	3.4	1.2
	Power	HP	0.125	0.1
Outdoor ECM fan motor	Max Watts	W	150	150
	F.L.A.	A	2.1	1.05
	Power	HP	0.1	0.1

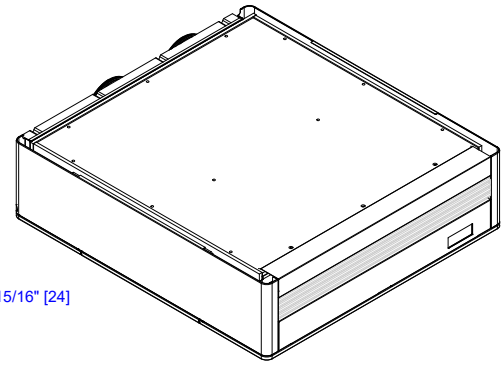
	Pre Heater		Post Heater		
	500 W	**1,000 W**	**900 W**	**1,800 W**	**2,700 W**
115 V	500 W / 4.3 A	N/A	900 W / 7.8 A	N/A	N/A
208 V	N/A	818 W / 3.9 A	736 W / 3.5 A	1,472 W / 7.1 A	2200 W / 10.6 A
230 V	N/A	1,000 W / 4.3 A	900 W / 3.9 A	1,800 W / 7.8 A	2,700 W / 11.7 A
240 V	N/A	1,089 W / 4.5 A	980 W / 4.1 A	1,960 W / 8.2 A	3,000 W / 12.5 A

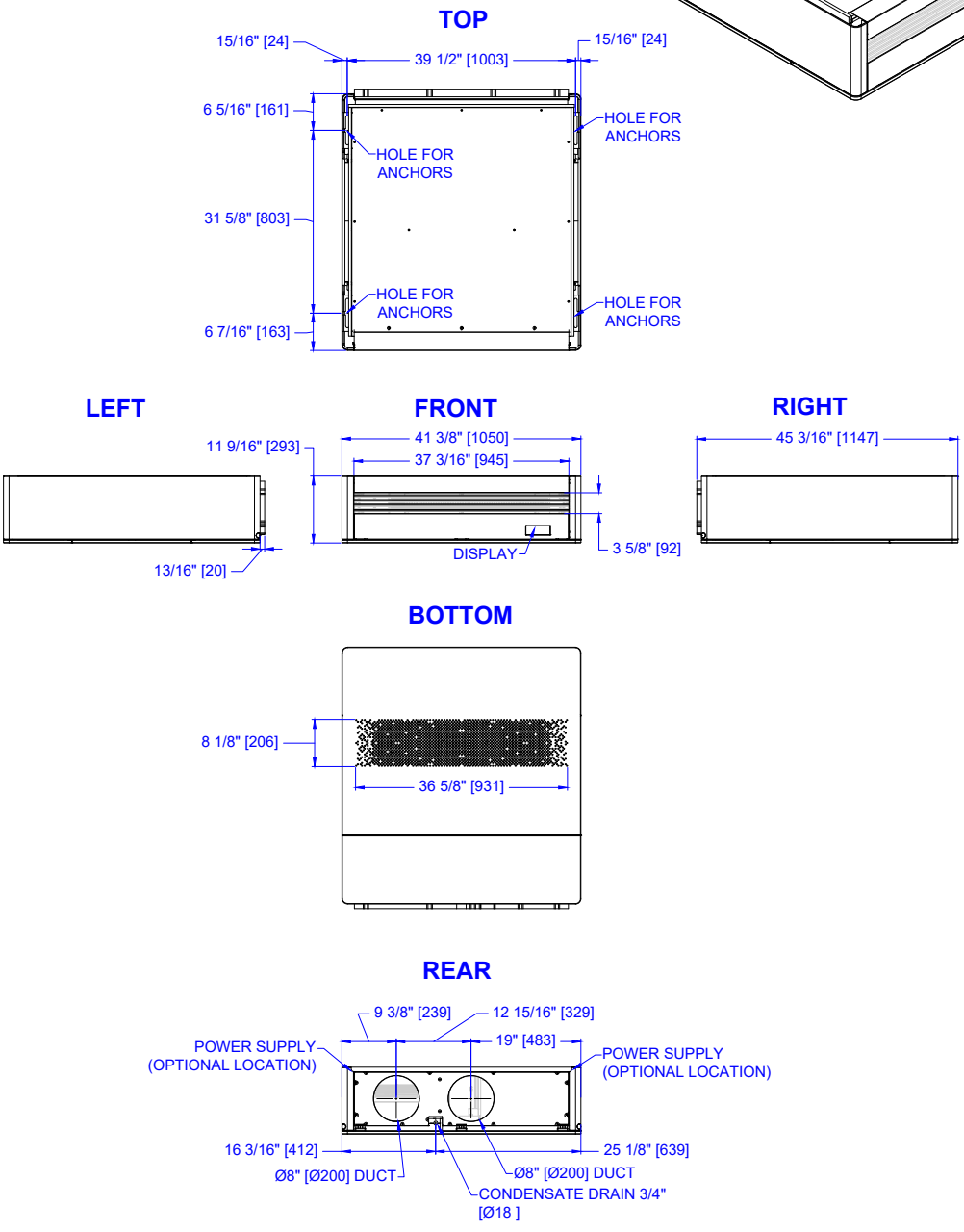
Sound		
Indoor	DB range: dB(A)	27 - 43
	STC	40
	OITC	35
Outdoor	dB(A)	28 - 55

Unit Dimensions and Mechanical Details		
Dimensions		41.3" W x 44.4" D x 11.5" H
		1,049 mm W x 1,128 mm D x 292 mm H
Net weight	lb (kg)	203 (92.1)
Gross weight		214 (97.1)
Cabinet finish		RAL 9003 signal white
Cabinet material		Steel

Dimensions

For CAD and DWG files, please scan or click the QR code below.





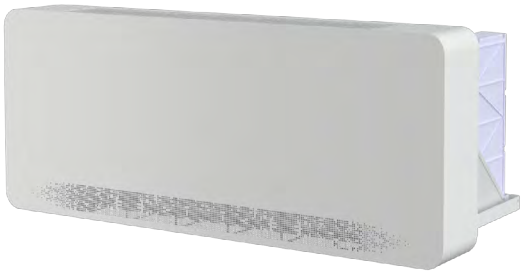


AIO NextGen PTHP

The NextGen PTHP fits standard PTAC wall sleeves, making it a direct replacement for existing units and a practical option for new construction designed around PTAC openings. It maintains the familiar PTAC/PTHP design while incorporating updated engineering and controls.

Compared to conventional PTACs, the NextGen PTHP offers a streamlined design, quieter operation, improved air sealing, and high energy efficiency driven by a twin-rotary BLDC inverter compressor with integrated energy recovery ventilation (ERV).

The result is efficient, reliable heating and cooling in a modernized in-room unit.



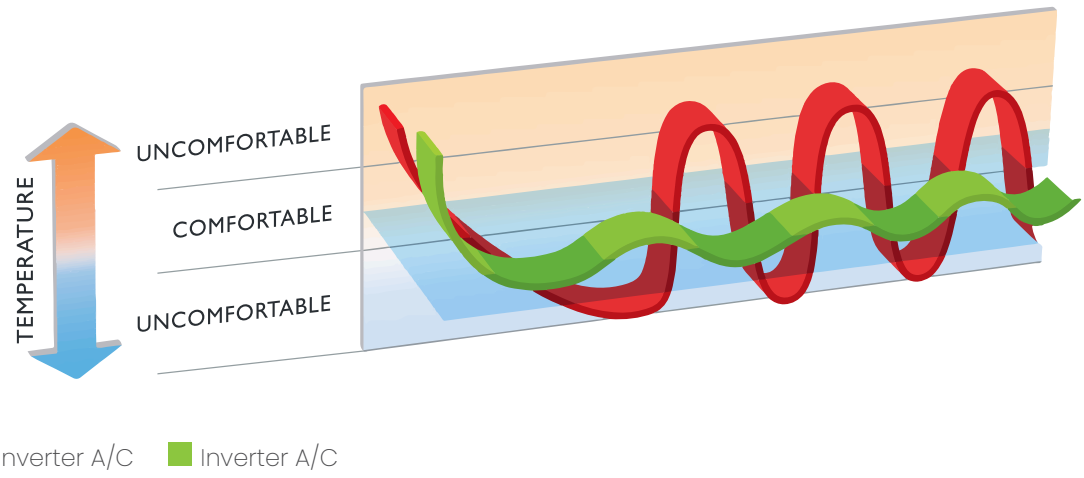
Key Differentiators

- 29 dBA whisper-quiet operation
- 5.7" (145 mm) slim visible depth
- Up to 50 CFM (85 m³/h) integrated fresh air
- Up to 81.7% heat recovery efficiency (ERV)
- ASHRAE 62.1 & 62.2 compliant ventilation
- MERV 13 filtration
- Energy Star® compliant | Up to SEER2 16–16.7
- Operates down to -13°F (-25°C) with electric heat
- R32 refrigerant (low GWP)
- 10-year compressor warranty

Perfect Comfort

AIO NextGen PTHP's state-of-the-art twin-rotary BLDC variable-speed inverter compressor modulates its output to match the room's actual demand, improving comfort, reducing noise, and lowering energy consumption.

The compressor can also ramp up capacity to assist the ERV recovery core in treating outdoor air in extreme temperatures, ensuring comfort and humidity regulation in all circumstances.



Key Specifications

High Performance & High Efficiency

			High-Performance			Energy Star Compliant		
			95°F (35°C)[1]	**105°F (41°C)**[2]	**115°F (46°C)**[3]	**95°F (35°C)**[1]	**105°F (41°C)**[2]	**115°F (46°C)**[3]
Cooling - Heat Pump Only								
Capacity	Maximum	kBtu/h (kW)	17.0 (5.0)	15.5 (4.5)	14.0 (4.1)	15.0 (4.4)	13.0 (3.8)	11.5 (3.4)
	Recommended*		12.5 (3.7)	10.4 (3.0)	10.0 (2.9)	11.5 (3.4)	9.5 (2.8)	8.5 (2.5)
	Rated		11.5 (3.4)	11.5 (3.4)	11.5 (3.4)	8.5 (2.5)	8.5 (2.5)	8.5 (2.5)
	Minimum		4.5 (1.3)	4.0 (1.2)	4.0 (1.2)	4.5 (1.3)	4.0 (1.2)	4.0 (1.2)
Power input	Maximum	kW	2.00	1.90	2.00	1.73	1.58	1.35
	Recommended*		1.06	1.06	1.16	0.96	0.94	0.97
	Rated		0.96	1.21	1.35	0.64	0.81	0.97
	Minimum		0.33	0.41	0.48	0.33	0.41	0.48
Efficiency	Maximum		8.5	8.1	6.6	8.7	8.2	7.7
	Recommended		11.5	9.8	8.2	12	10.1	8.4
	Nominal		12	9.5	7.7	13	10.5	8.4
	SEER2†		16.0	-	-	16.7	-	-
Moisture removal		Pts/h (L/h)	2.4 (1.1)	2.9 (1.4)	3.4 (1.6)	1.9 (0.9)	2.4 (1.1)	2.9 (1.4)

			High-Performance					Energy Star Compliant				
			47°F (8°C)[4]	**17°F (-8°C)**[5]	**5°F (-15°C)**[6]	**0°F (-18°C)**[7]	**-5°F (-21°C)**[8]	**47°F (8°C)**[4]	**17°F (-8°C)**[5]	**5°F (-15°C)**[6]	**0°F (-18°C)**[7]	**-5°F (-21°C)**[8]
Heating - Heat Pump Only**												
Capacity	Maximum	kBtu/h (kW)	15.5 (4.5)	13.0 (3.8)	10.0 (2.9)	9.0 (2.6)	8.5 (2.5)	12.5 (3.7)	11.0 (3.2)	9.0 (2.6)	9.0 (2.6)	8.5 (2.5)
	Recommended*		12.5 (3.7)	11.5 (3.4)	9.0 (2.6)	8.5 (2.5)	8.5 (2.5)	10.0 (2.9)	8.5 (2.5)	8.0 (2.3)	7.5 (2.2)	8.5 (2.5)
	Rated		11.5 (3.4)	11.5 (3.4)	6.5 (1.9)	6.5 (1.9)	6.5 (1.9)	8.5 (2.5)	8.5 (2.5)	6.5 (1.9)	6.5 (1.9)	6.5 (1.9)
	Minimum		4.0 (1.2)	3.0 (0.9)	2.7 (0.8)	2.4 (0.7)	2.0 (0.6)	4.0 (1.2)	3.0 (0.9)	2.7 (0.8)	2.4 (0.7)	2.0 (0.6)
Power input	Maximum	kW	1.42	1.65	1.32	1.29	1.31	1.04	1.21	1.24	1.29	1.31
	Recommended*		1.04	1.28	1.24	1.23	1.31	0.70	0.87	1.19	1.12	1.31
	Rated		0.90	1.28	1.00	1.04	1.03	0.61	0.87	1.00	1.04	1.03
	Minimum		0.30	0.38	0.37	0.35	0.35	0.30	0.38	0.37	0.35	0.35
Efficiency	Maximum		3.2	2.3	2.1	2.0	1.9	3.6	2.6	2.1	2.0	1.9
	Recommended		3.6	2.5	2.1	2.0	1.9	3.9	2.8	2.2	2.0	1.9
	Nominal		3.8	2.5	2.2	2.06	1.95	4	2.7	2.2	2.06	1.95
	Minimum		4.1	2.3	2.3	2	1.8	4.1	2.3	2.3	2	1.8
	HSPF2†		8.0	-	-	-	-	9.2	-	-	-	-

1 **95°F (35°C)** 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 **105°F (41°C)** 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 **115°F (46°C)** 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)
4 **47°F (8°C)** 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)
5 **17°F (-8°C)** ID: 70°F(21.1°C), W.B. 60°F(15.6°C); OD: 17°F(-8.3°C), W.B. 13°F(-10.6°C)
6 **5°F (-15°C)** 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)
7 **0°F (-18°C)** ID: 70°F(21.1°C), W.B. 60°F(15.6°C); OD: 0°F(-17.8°C)
8 **-5°F (-21°C)** 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.

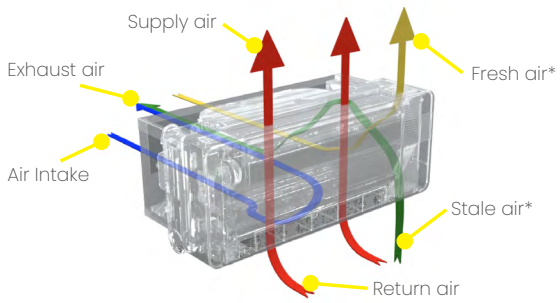
** The tables show Heat Pump performance only. An electric heating element can be added to provide an additional output of 6.1 kBtu/h (1.8 kW).

† SEER2 does not apply to PTHP-type units and is shown solely to enable comparison with similar heat pump systems. Values are for reference and comparison purposes only.

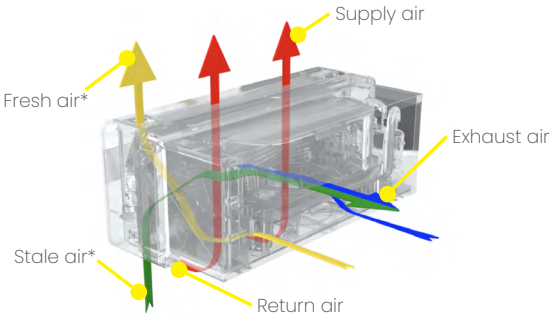
Airflow

- **Recirculated supply air**
  The supply air is released through a fixed top grille.
- **Recirculated return air**
  The return air is drawn through the integrated return air grille and filter located at the bottom of the unit.
- **Condenser air intake**
  The condenser air intake connection is compatible with any of the approved or custom louvers, provided they meet the minimum requirements.
- **Condenser air exhaust**
  The condenser air exhaust connection is compatible with any of the approved or custom louvers, provided they meet the minimum requirements.
- **Fresh air intake and exhaust***
  The fresh air intake enters through the same louver as the condenser air intake, passes through the ERV, and exits through an opening to the right of the supply air grille.
- **Stale air intake and exhaust***
  The stale air intake enters through an opening to the right of the return air grille, passes through the ERV, and exits through the same louver as the condenser air exhaust.

Front View

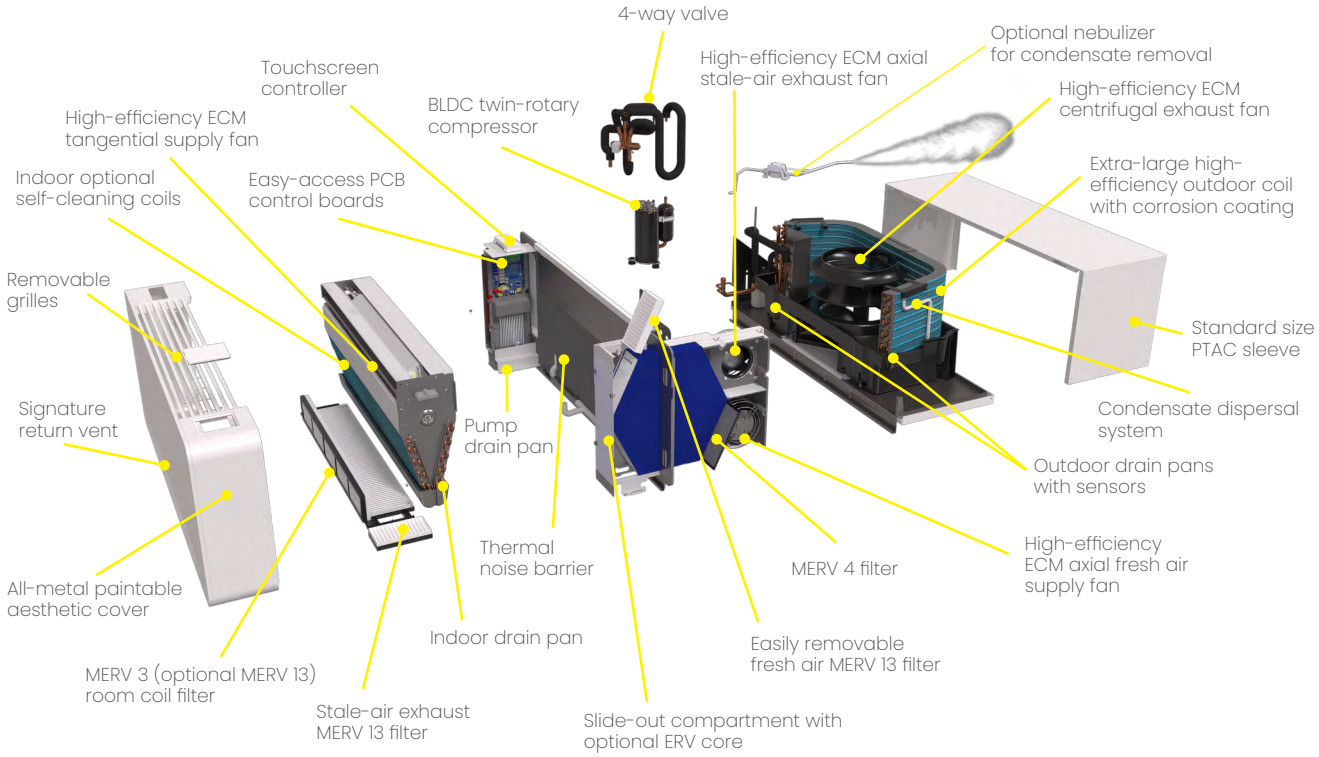


Rear View



Outside air | Recirculated air | Fresh air intake | Stale air exhaust

What's Inside



* For units with an ERV.

Forget Everything You Know about PTACs





PTAC		AIO NextGen PTHP
Inefficient expensive electric heat	Efficiency	**73% less power used**
No conditioning of the outdoor air	Built-in ERV	**Recovers exhaust energy to precondition fresh air. The Result: 73% less energy used.**
MERV 2	Indoor Air Quality	**MERV 13**
~60db	Sound	**~27 dBA**
12" protrusion	Space	**5.7" protrusion**
Plastic that turns yellow over time	Design	**Sleek, paintable metal casing**
Must have a condensate drain	Condensate	**Nebulizer pump sprays condensate to the outside**

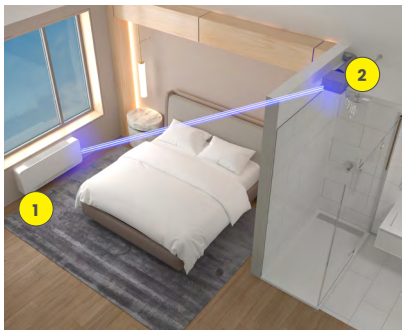
Perfectly Balanced Airflow

Balanced airflow is essential for optimal functioning of any heating and cooling system. When a bathroom fan is operating, fresh air must be introduced to counteract the air being extracted. Negative air pressure can lead to mold, mildew, and increased pollutants. AIO NextGen PTHP provides two innovative solutions to maintain balanced room air while using a bathroom fan.



Integrated Bathroom Exhaust

To achieve optimal efficiency, well-balanced air circulation, reduced construction costs, and a streamlined building facade, it is recommended to connect the bathroom exhaust fan to the stale-air exhaust of the ERV. This connection not only enables the total recovery of heat from the bathroom and maintains balanced airflow but also contributes to a reduction in the number of external vents on the building facade. Please note that connecting the bathroom exhaust to the AIO NextGen PTHP is an optional paid feature, scheduled to be available starting in Q3 2026.



AirSync™

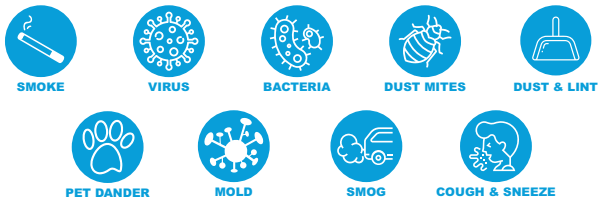
AirSync™, a pioneering patent-pending solution, ensures optimal air balance by synchronizing the bathroom exhaust fan with the ERV fresh air supply fan and the stale-air exhaust fan.

Upon activation of the bathroom fan, a signal is transmitted to the ERV supply fan to increase its speed to align with the bathroom fan. Simultaneously, the signal instructs the stale-air exhaust fan to reduce its speed, ensuring that the total air intake matches the total air outflow, including from the bathroom fan. When the bathroom fan is deactivated—either by the occupant, motion sensor, or humidity sensor—the signal prompts the ERV outside-air supply fan and the stale-air exhaust fan to return to their normal speeds. This coordination enhances overall air circulation and efficiency within the system.

1. The ERV intake fan speeds up to match active bathroom fan
2. The bathroom fan sends a signal to the unit when activated

Superior Air Quality

AIO NextGen PTHP includes high-performance ECM fans that facilitate the use of **MERV 13 filters** in various airflows, including makeup air, fresh air intake, stale air exhaust, and recirculated air. This ensures the highest standard of clean air. The filters are easily accessible for both indoor and outdoor air, providing exceptional protection against pet dander, mold spores, car fumes, smoke, bacteria, and other microallergens.





Technical Specifications

Airflow		
Indoor	Type	ECM Centrifugal
	CFM (m³/h)	160 - 400 (272 - 680)
	Fan Modes:	Low, med, high, boost, auto
	Level 1 - Low	160 (272)
	Level 2 - Medium	310 (527)
	Level 3 - High	400 (680)
	Boost (Temporary)	630 (1070)
	Available ESP	N/A
	Supply connection	Integrated
	Return connection	Integrated
	Filter	MERV 3
Outdoor	Type	ECM Centrifugal
	CFM Range (m³/h)	210 - 850 (357 - 1,444)

General		
Compressor	Type	BLDC twin rotary inverter
	Oil Type	Fv50s
Controls	Basic Functionality	Dependent on the controller
	WiFi	Optional module available
	Dry Contact	Yes
Modes	Operation	Cool, heat, dehumidify, auto, ERV
	Restricted Modes	Heat only, cool only, temperature limiting
	Timers	Dependent on the controller
Condensate	Pipe size	3/4" (19 mm) outside diameter
	Pipe Material	Rubber

Sound		
Indoor	DB range: dB(A)	29-49
	STC	40
	OITC	35
Outdoor	dB(A)	28-55

ERV				
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		
Efficiency of Core in Winter		**20 CFM (34 m³/h)**	**30 CFM (51 m³/h)**	**50 CFM (85 m³/h)**
Sensible	%	81.7	77.9	72.8
Latent		58.1	54.5	48.5
Efficiency of Core in Summer				
Sensible	%	68.1	64.3	59.1
Latent		57.5	53.7	47.3
Filter				
Indoor air	MERV	MERV 3 / optional MERV 13		
Outside air		MERV 13		
Leakage				
Internal	in. WC (Pa)	2.6% at 0.40" (100)	2.4% at 0.40" (100)	2.2% at 0.40" (100)
External		2.8% at 1.0" (249)	2.7% at 1.0" (249)	2.5% at 1.0" (249)

Unit Dimensions and Mechanical Details		
Dimensions (visible part)		45.1" W x 5.7" D x 17.5" H
		1,145.5 mm W x 144.78 mm D x 444.5 mm H
Dimensions (in-sleeve)		42.0" W x 14.6" D x 16.0" H
		1066.8 mm W x 370.84 mm D x 406.4 mm H
Net weight	lb (kg)	145 (65.8)
Weight with wall sleeve		155 (70.3)
Cabinet finish		RAL 9003 signal white
Cabinet material		Steel

		High-Performance			Energy Star Compliant		
Electrical Data: Heat Pump Only*		**208V**	**230V**	**265V**	**208V**	**230V**	**265V**
Power Supply	Ph/Hz	1/60			1/60		
Power Factor		0.96			0.96		
Input Power - standby	W	10.8			10.8		
Input Power - off mode		1.5			1.5		
Running Amps Cooling	A	4.6	4.2	3.6	3.1	2.8	2.4
Max. Amps Cooling		9.6	8.7	7.5	8.3	7.5	6.5
Running Amps Heating		4.3	3.9	3.4	2.9	2.7	2.3
Max. Amps Heating		6.8	6.2	5.4	5.0	4.5	3.9
MCA		12	11	9	10	9	8
MOCP		20	20	15	15	15	15

Post Heater Output and Current

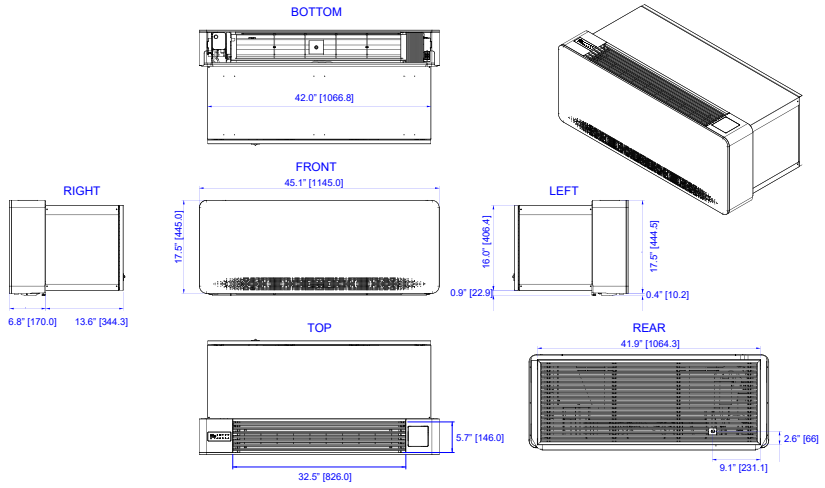
	1,800 W
208 V	1,472 W / 7.1 A
230 V	1,800 W / 7.8 A
265 V	2,390 W / 9 A

Electrical Connection: Heat Pump Only			
LCDI cord*	Standard length	in (mm)	89 (2,261)
		SKU	-
	Extra short	in (mm)	12 (305)
	Amps	A	15
	Plug	NEMA	6-15
Standard power cord**	Length	in (mm)	60 (1,524)
	Amps	A	15
	Plug	NEMA	7-15
Quick-connect whip	Length	in (mm)	40 (1,016)

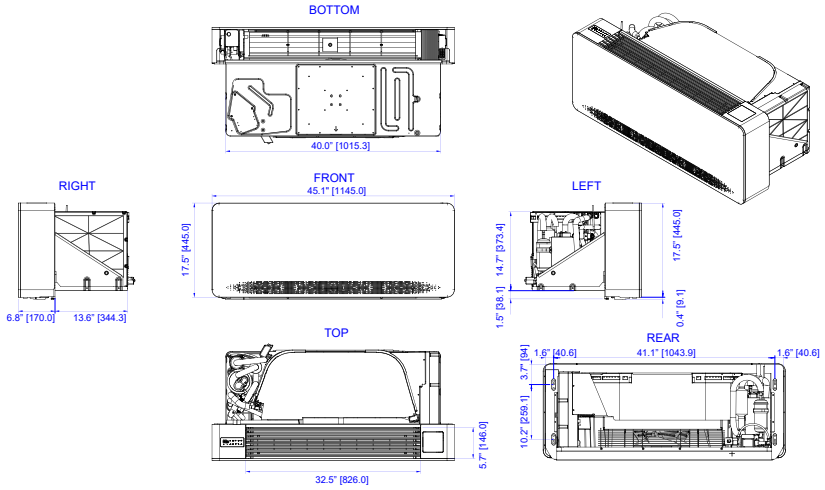
Electrical (General) - Motors			
Indoor ECM fan motor	Max Watts	W	65
	FLA	A	0.4
	Power	HP	0.07
Outdoor ECM fan motor	Max Watts	W	150
	FLA	A	1.3
	Power	HP	0.2
Fresh Air ERV fan motor	Max Watts	W	150
	FLA	A	0.8
	Power	HP	0.20
Stale Air ERV fan motor	Max Watts	W	190
	FLA	A	0.8
	Power	HP	0.26

Dimensions

With Sleeve



Without Sleeve



* for 208/230V units

** for 265/277V units



AIO Ceiling Ducted

AIO Ceiling Ducted can be discreetly installed above a ceiling and is ideal for single or multi-room applications. The return can be from the sides or the bottom for maximum flexibility. With up to 0.6" WC (149 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. A bathroom exhaust can connect to the dedicated stale air exhaust. Ceiling Ducted units are available with or without the integrated ERV. Watch how it is installed by scanning or clicking the QR code.



Key Features

- Compact unit
- Easy to install
- High ESP for internal and external ducting
- Bottom or side returns
- Bathroom exhaust connection
- Auto-restart
- Washable filters
- Preheater for extreme cold climates

Options

- Optional 0.9 or 1.8 kW electric heat
- With or without ERV
- 115V or 230V
- Hardwire or LCDI cord
- R32

Operation

- Cool, heat, dehumidify, and auto
- Selectable fan speeds, low, med, high, and auto
- Fresh air ERV - field configurable amount of fresh air

Mounting

- Ceiling
- Underfloor

Airflow

- Dual 8" (203 mm) external vents
- Available 0.7" WC (174 Pa) for external ducting, adapters, and louvers
- Available 0.6" WC (149 Pa) for internal ducting and louvers

Included Controllers

- Onboard touch controller for diagnostics and programming (on bottom of the unit)

Optional Controllers

- WiFi app for Android and iPhone
- Wall Mounted Advanced touchscreen with a 7-day program
- Wall Mounted Basic touch controller
- Third-party thermostat interface
- BACnet/Modbus interface

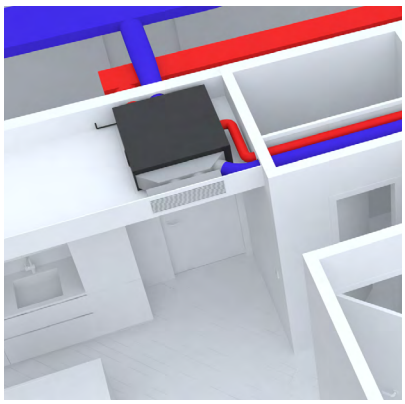
Installation



Direct existing window vent



Direct external vent



Shared supply and exhaust vents

Key Specifications

High Performance & High Efficiency

			AHRI			Energy Star Certified		
			95°F (35°C)[1]	105°F (41°C)[2]	115°F (46°C)[3]	95°F (35°C)[1]	105°F (41°C)[2]	115°F (46°C)[3]
Cooling - Heat Pump Only								
Capacity	Maximum	kBtu/h (kW)	15.0 (4.4)	11.4 (3.3)	9.8 (2.9)	15.0 (4.4)	11.4 (3.3)	9.8 (2.9)
	Recommended*		9.4 (2.8)	8.2 (2.4)	7.3 (2.1)	9.4 (2.8)	8.2 (2.4)	7.3 (2.1)
	Nominal		7.7 (2.3)	7.4 (2.2)	6.6 (1.9)	6.1 (1.8)	7.4 (2.2)	6.6 (1.9)
	Minimum		3.1 (0.9)	3.1 (0.9)	3.1 (0.9)	3.1 (0.9)	3.1 (0.9)	3.1 (0.9)
Power input	Maximum	kW	1.58	1.64	1.70	1.58	1.64	1.70
	Recommended*		0.96	0.95	1.04	0.96	0.95	1.04
	Nominal		0.73	0.83	0.90	0.53	0.83	0.90
	Minimum		0.23	0.26	0.29	0.23	0.26	0.29
Efficiency	Maximum		9.5	7.0	5.8	9.5	7.0	5.8
	Recommended		9.8	8.6	7.0	9.8	8.6	7.0
	Nominal		10.6	8.9	7.3	11.6	8.9	7.3
	SEER2		13.9	-	-	15.3	-	-
Moisture removal		Pts/h (L/h)	1.8 (0.9)	2.0 (0.9)	2.2 (1.0)	1.8 (0.9)	2.0 (0.9)	2.2 (1.0)

			AHRI					Energy Star Certified				
			47°F (8°C)[4]	17°F (-8°C)[5]	5°F (-15°C)[6]	0°F (-18°C)[7]	-5°F (-21°C)[8]	47°F (8°C)[4]	17°F (-8°C)[5]	5°F (-15°C)[6]	0°F (-18°C)[7]	-5°F (-21°C)[8]
Heating - Heat Pump Only**												
Capacity	Maximum	kBtu/h (kW)	14.0 (4.1)	10.0 (2.9)	6.6 (1.9)	6.3 (1.8)	5.8 (1.7)	14.0 (4.1)	10.0 (2.9)	6.6 (1.9)	6.3 (1.8)	5.8 (1.7)
	Recommended*		9.2 (2.7)	9.3 (2.7)	6.2 (1.8)	5.9 (1.7)	5.6 (1.6)	9.2 (2.7)	8.7 (2.5)	5.9 (1.7)	5.9 (1.7)	5.6 (1.6)
	Nominal		8.6 (2.5)	8.3 (2.4)	6.2 (1.8)	5.9 (1.7)	5.6 (1.6)	8.2 (2.4)	7.8 (2.3)	5.9 (1.7)	5.9 (1.7)	5.6 (1.6)
	Minimum		3.5 (1.0)	3.3 (1.0)	2.8 (0.8)	2.5 (0.7)	2.5 (0.7)	3.5 (1.0)	3.3 (1.0)	2.8 (0.8)	2.5 (0.7)	2.5 (0.7)
Power input	Maximum	kW	1.42	1.46	1.70	1.60	1.65	1.42	1.46	1.70	1.60	1.65
	Recommended*		0.77	0.99	1.25	1.06	1.01	0.77	0.87	1.14	1.06	1.01
	Nominal		0.70	0.86	1.09	1.06	1.01	0.64	0.76	0.99	1.06	1.01
	Minimum		0.32	0.42	0.44	0.43	0.48	0.32	0.42	0.44	0.43	0.48
Efficiency	Maximum		2.9	2.0	1.1	1.1	1.0	2.9	2.0	1.1	1.1	1.0
	Recommended		3.5	2.8	1.5	1.6	1.6	3.5	2.9	1.5	1.6	1.6
	Nominal		3.6	2.8	1.7	1.6	1.6	3.7	3.0	1.8	1.6	1.6
	Minimum		3.3	2.3	1.9	1.7	1.5	3.3	2.3	1.9	1.7	1.5
	HSPF2		9.2	-	-	-	-	9.2	-	-	-	-

1 **95°F (35°C)** 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 **105°F (41°C)** 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 **115°F (46°C)** 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)
4 **47°F (8°C)** 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)
5 **17°F (-8°C)** ID: 70°F(21.1°C), W.B. 60°F(15.6°C); OD: 17°F(-8.3°C), W.B. 13°F(-10.6°C)
6 **5°F (-15°C)** 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)
7 **0°F (-18°C)** ID: 70°F(21.1°C), W.B. 60°F(15.6°C); OD: 0°F(-17.8°C)
8 **-5°F (-21°C)** 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.

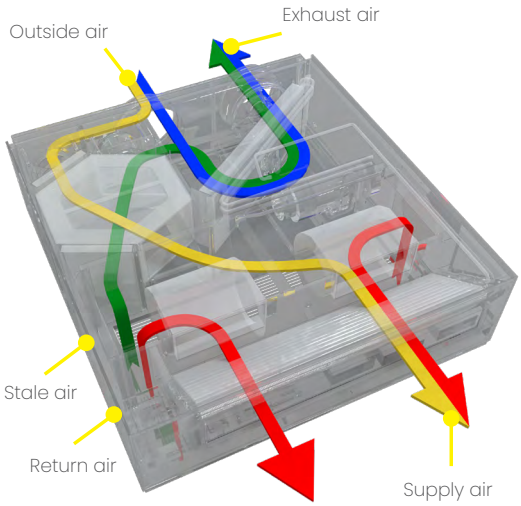
** The tables show Heat Pump performance only. An electric heating element can be added to provide an additional output of 3.1 or 6.1 kBtu/h (0.9 or 1.8 kW).

Airflow

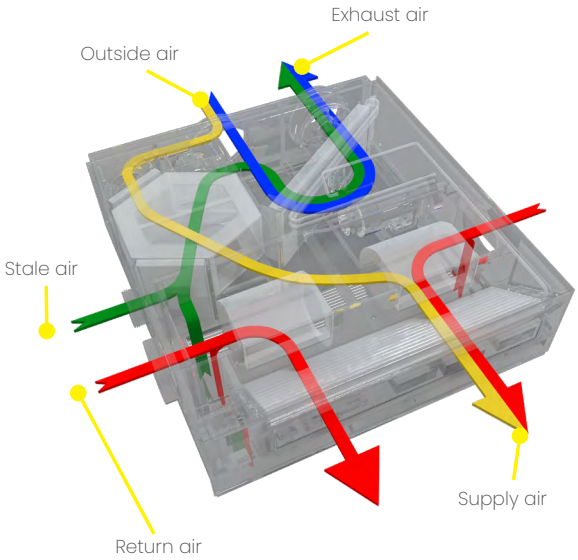
AIO Ceiling Ducted is flexible in many ways. It can be fully ducted or used with minimal or no ducting. This flexibility enables AIO Ceiling Ducted to be placed anywhere in a dwelling without restrictions.

- **Supply air**
  The rectangular 3.9" x 27.9" (99 x 709 mm) supply air connection is ideal for a supply grille or ducting, with up to 0.6" WC (149 Pa) external static pressure (combined between return and supply).
- **Stale air exhaust**
  The 5" (127 mm) round stale air exhaust connection can be used as part of a plenum return without any ducting or can be ducted to a bathroom or multiple locations with up to 0.5" WC (125 Pa) external static pressure. If configuring AIO Ceiling Ducted with a bottom return, the stale air can also be pulled from the bottom return.
- **Return air - bottom option**
  The bottom 8.7" x 22" (221 x 559 mm) return is designed to be used with a ceiling-mounted return grille or an access panel with an integrated return grille.
- **Return air - side options**
  The left and right side 6" (152 mm) round connections can be ducted to one or more rooms with up to 0.6" WC (149 Pa) external static pressure (combined between return and supply). It can also be left open as a side plenum return. The two connections are fully independent, each with its own ECM fan and auto ESP. Duct both, leave both open, or duct one and leave the other open to a plenum.
- **Outside air intake**
  The single 8" (203 mm) round outside air intake connection provides air for the condenser portion and fresh air for the inside. This can be ducted with up to 0.7" WC (174 Pa) external static pressure (combined between intake and exhaust).
- **Outside air exhaust**
  The single 8" (203 mm) round outside air exhaust connection is for the condenser portion and the stale air exhaust. This can be ducted with up to 0.7" WC (174 Pa) external static pressure (combined between intake and exhaust).

Bottom return

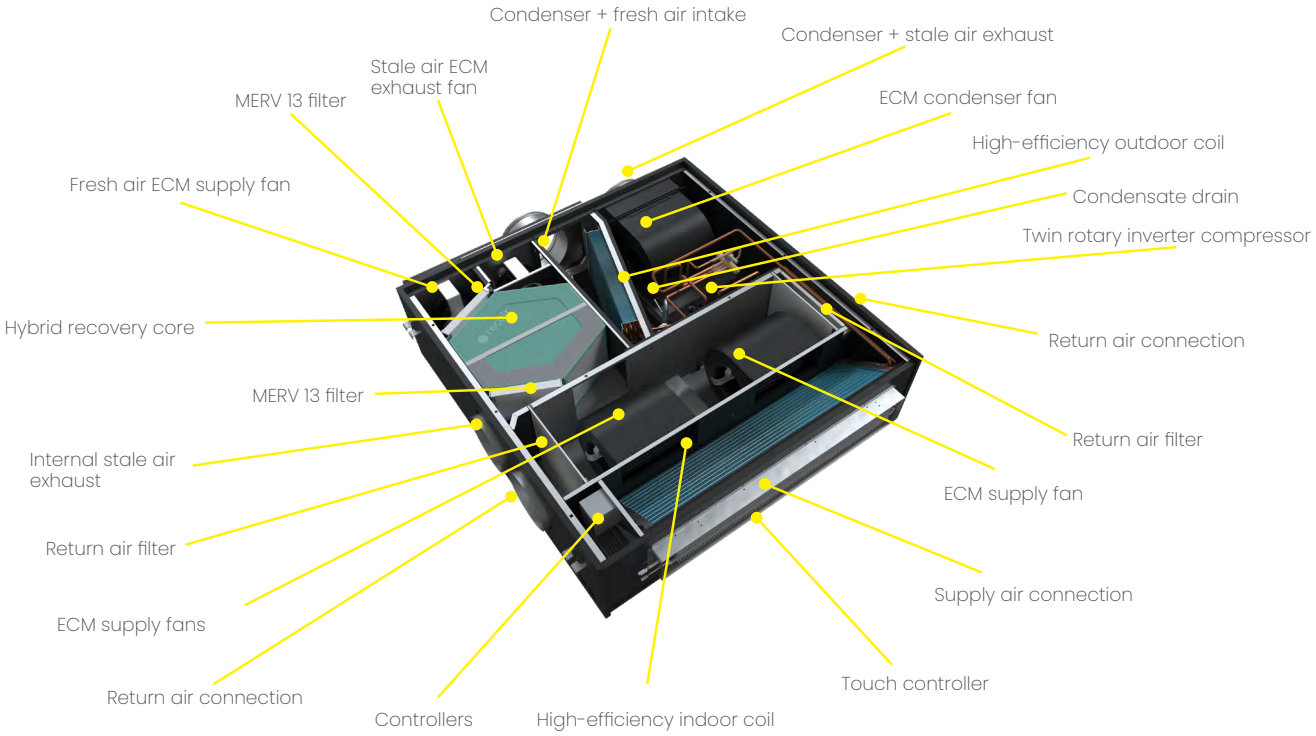


Side return



Outside air Recirculated air Fresh air intake Stale air exhaust

What's Inside

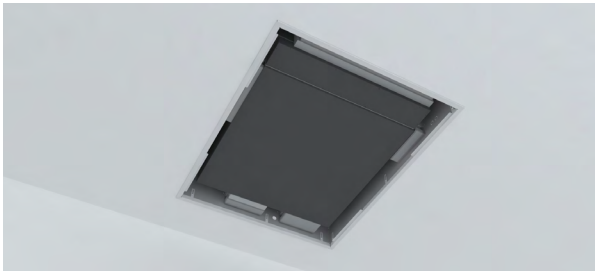


Rough-In for Ceiling Ducted

When ceiling ducted units are installed in ceilings, service access is often difficult.

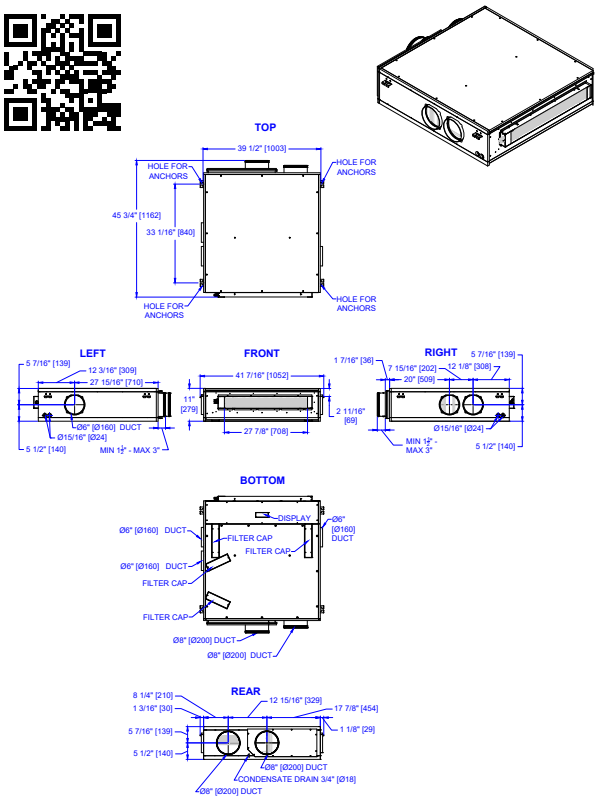
Innova solves this with an innovative rough-in box installed first, allowing the unit to easily snap in and out for service or replacement—without disconnecting ductwork or utilities. All connections remain on the rough-in box, not the unit, making maintenance faster, cleaner, and far more efficient.





Dimensions

For CAD and DWG files, please scan or click the QR code below.



Technical Specifications

Airflow		
Indoor	Type	ECM centrifugal
	CFM (m³/h)	226 - 400 (384 - 680)
	Available ESP	0.6" WC (149 Pa)
	Supply connection	3.9" H x 27.9" W (99 mm H x 708 mm W)
	Return connection	Two 6" (152 mm) round on sides or bottom 8.7" x 22.1" (221 mm x 561 mm)
	Filter	MERV 3
Outdoor	Type	ECM centrifugal
	CFM (m³/h)	385 - 638 (654 - 1,084)
	Available ESP	0.7" WC (174 Pa)
	Intake connection	8" (203 mm) round
	Exhaust connection	8" (203 mm) round
	Speeds	Low, med, high, auto
General		
Compressor	Type	BLDC twin rotary inverter
	Oil Type	Fv50s
Controls	Basic Functionality	Dependent on controller
	WiFi	Optional module available
	Power Outage Restart	Auto-on based on last setting
	Dry Contact	Yes
Modes	Operation	Cool+ fresh air, cool only, heat+ fresh air, heat only, auto
	Restricted Modes	Heat only, cool only, temperature limiting
	Timers	Dependent on the controller
Condensate	Pipe size	3/4" (19 mm) outside diameter
	Pipe Material	-

ERV				
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		
Efficiency of Core in Winter		**40 CFM (68 m³/h)**	**60 CFM (102 m³/h)**	**80 CFM (136 m³/h)**
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	MERV 3 / optional MERV 13		
Outside air		MERV 13		
Leakage				
Internal	in. WC (Pa)	2.6% at 0.40" (100)	2.4% at 0.40" (100)	2.2% at 0.40" (100)
External		2.8% at 1.0" (249)	2.7% at 1.0" (249)	2.5% at 1.0" (249)

		AHRI		Energy Star Certified	
Electrical Data: Heat Pump Only*		**115V**	**230V**	**115V**	**230V**
Power Supply	Ph/Hz	1/60		1/60	
Power Factor		0.96		0.96	
Input Power - standby	W	10.8		10.8	
Input Power - off mode		1.5		1.5	
Running Amps Cooling	A	8.2	4.1	8.2	4.1
Max. Amps Cooling		20.9	9.5	20.9	9.5
Running Amps Heating		10.0	5.0	10.0	5.0
Max. Amps Heating		20.9	9.5	20.9	9.5
MCA		25	11	25	11
MOCP		35	15	35	15

* See the Post and Pre Heater table.

Electrical Connection			115V	230V
LCDI Power Cord	Amps	A	N/A	15
	Plug	NEMA	N/A	6-15P
Quick-connect whip	Length	in (mm)	40 (1,016)	40 (1,016)

Electrical (General) - Motors				
Compressor	RLA	A	13	6
	LRA		13	6
Indoor ECM fan motor	Max Watts	W	260	200
	F.L.A.	A	3.4	1.2
	Power	HP	0.125	0.1
Outdoor ECM fan motor	Max Watts	W	150	150
	F.L.A.	A	2.1	1.05
	Power	HP	0.1	0.1

	Pre Heater		Post Heater		
	500 W	**1,000 W**	**900 W**	**1,800 W**	**2,700 W**
115 V	500 W / 4.3 A	N/A	900 W / 7.8 A	N/A	N/A
208 V	N/A	818 W / 3.9 A	736 W / 3.5 A	1,472 W / 7.1 A	2200 W / 10.6 A
230 V	N/A	1,000 W / 4.3 A	900 W / 3.9 A	1,800 W / 7.8 A	2,700 W / 11.7 A
240 V	N/A	1,089 W / 4.5 A	980 W / 4.1 A	1,960 W / 8.2 A	3,000 W / 12.5 A

Sound		
Indoor	DB range: dB(A)	27 - 43
	STC	40
	OITC	35
Outdoor	dB(A)	28 - 55

Unit Dimensions and Mechanical Details		
Dimensions		41.4" W x 45.7" D x 11" H
		1,052 mm W x 1,161 mm D x 279 mm H
Net weight	lb (kg)	178 (80.7)
Gross weight		190 (86.2)
Cabinet finish		Black covered with dark gray EPDM
Cabinet material		Steel



AIO Vertical Stack

AIO Vertical Stack is the ideal multi-room solution when a ceiling-mounted unit is not desired or feasible. The compact 12.4-inch by 28.7-inch (315 mm by 729 mm) footprint uses minimal floor space. This unit is perfect anywhere direct venting or ducting is required with up to 0.6" WC (149 Pa) external static pressure. Use any style of grille or louvers for maximum design flexibility.

A unique feature of the AIO Vertical Stack unit is that it can be installed on a corridor wall, enabling it to be fully serviced without entering the apartment or hotel room. A bathroom exhaust can connect to the dedicated stale air exhaust —which can be field-modified to left or right. The Vertical Stack unit is available with or without the integrated ERV and can be vented directly outside or through ductwork. Watch how it is installed by scanning or clicking the QR code.



Key Features

- Compact unit
- Easy to install
- High ESP for internal and external ducting
- Extraordinarily flexible ducting
- Bathroom exhaust connection
- Auto-restart
- Washable filters
- Preheater for extreme cold climates

Options

- Optional 0.9 or 1.8 kW electric heat
- With or without ERV
- 115V or 230V
- Hardwire or LCDI cord
- R32
- MERV 13 filtration on return air

Operation

- Cool, heat, dehumidify, and auto
- Selectable fan speeds, low, med, high, and auto
- Fresh air ERV - field configurable amount of fresh air

Mounting

- Vertical

Airflow

- Dual 8" (203 mm) external vents
- Available 0.7" WC (174 Pa) for external ducting, adapters, and louvers
- Available 0.6" WC (149 Pa) for internal ducting and louvers

Included Controllers

- Onboard touch controller for diagnostics

Optional Controllers

- WiFi app for Android and iPhone
- Wall Mounted Advanced touchscreen with a 7-day program
- Wall Mounted Basic touch controller
- Third-party thermostat interface
- BACnet/Modbus interface

No Access Required

The versatile design of AIO makes the system extremely reliable and inexpensive to maintain. If a repair is needed, a single unit can be taken offline without affecting the entire system. It's possible to install AIO Vertical Stack on the corridor wall of each apartment/hotel room so that all maintenance can be achieved from a common area—at any time, which means no maintenance personnel need to enter the apartment or room.



Key Specifications

High Performance & High Efficiency

			AHRI			Energy Star Certified		
			95°F (35°C)[1]	105°F (41°C)[2]	115°F (46°C)[3]	95°F (35°C)[1]	105°F (41°C)[2]	115°F (46°C)[3]
Cooling - Heat Pump Only								
Capacity	Maximum	kBtu/h (kW)	14.4 (4.2)	13.1 (3.8)	11.8 (3.5)	14.4 (4.2)	13.1 (3.8)	11.8 (3.5)
	Recommended*		9.8 (2.9)	8.5 (2.5)	7.8 (2.3)	9.8 (2.9)	8.5 (2.5)	7.8 (2.3)
	Nominal		8.9 (2.6)	7.6 (2.2)	6.9 (2.0)	7.5 (2.2)	7.6 (2.2)	6.9 (2.0)
	Minimum		3.6 (1.1)	3.6 (1.1)	3.4 (1.0)	3.6 (1.1)	3.6 (1.1)	3.4 (1.0)
Power input	Maximum	kW	1.75	1.68	1.75	1.75	1.68	1.75
	Recommended*		0.95	0.97	1.06	0.95	0.97	1.06
	Nominal		0.81	0.85	0.93	0.65	0.85	0.93
	Minimum		0.25	0.28	0.30	0.25	0.28	0.30
Efficiency	Maximum		8.23	7.8	6.74	8.23	7.8	6.74
	Recommended		10.27	8.8	7.36	10.27	8.8	7.36
	Nominal		10.95	9.0	7.47	11.6	9.0	7.47
	SEER2		14.35	-	-	15.35	-	-
Moisture removal		Pts/h (L/h)	1.8 (0.9)	2.0 (0.9)	2.2 (1.0)	1.8 (0.9)	2.0 (0.9)	2.2 (1.0)

			AHRI					Energy Star Certified				
			47°F (8°C)[4]	17°F (-8°C)[5]	5°F (-15°C)[6]	0°F (-18°C)[7]	-5°F (-21°C)[8]	47°F (8°C)[4]	17°F (-8°C)[5]	5°F (-15°C)[6]	0°F (-18°C)[7]	-5°F (-21°C)[8]
Heating - Heat Pump Only**												
Capacity	Maximum	kBtu/h (kW)	13.8 (4.0)	9.4 (2.8)	6.7 (2.0)	6.4 (1.9)	6.0 (1.8)	13.8 (4.0)	9.4 (2.8)	6.7 (2.0)	6.4 (1.9)	6.0 (1.8)
	Recommended*		10.0 (2.9)	9.0 (2.6)	6.5 (1.9)	6.1 (1.8)	5.8 (1.7)	10.0 (2.9)	9.0 (2.6)	6.5 (1.9)	6.1 (1.8)	5.8 (1.7)
	Nominal		8.9 (2.6)	9.0 (2.6)	6.5 (1.9)	6.1 (1.8)	5.8 (1.7)	8.2 (2.4)	8.9 (2.6)	6.4 (1.9)	6.1 (1.8)	5.8 (1.7)
	Minimum		3.9 (1.1)	3.3 (1.0)	2.8 (0.8)	2.7 (0.8)	2.7 (0.8)	3.9 (1.1)	3.3 (1.0)	2.8 (0.8)	2.7 (0.8)	2.7 (0.8)
Power input	Maximum	kW	1.75	1.75	1.75	1.65	1.45	1.75	1.75	1.75	1.65	1.45
	Recommended*		0.82	1.15	1.11	1.08	1.04	0.82	1.15	1.11	1.08	1.04
	Nominal		0.71	1.15	1.11	1.08	1.04	0.66	1.13	1.07	1.08	1.04
	Minimum		0.42	0.44	0.46	0.48	0.50	0.42	0.44	0.46	0.48	0.50
Efficiency	Maximum		2.31	1.57	1.12	1.14	1.21	2.31	1.57	1.12	1.14	1.21
	Recommended		3.57	2.30	1.72	1.67	1.64	3.57	2.30	1.72	1.67	1.64
	Nominal		3.66	2.30	1.72	1.67	1.64	3.66	2.30	1.75	1.67	1.64
	Minimum		2.72	2.2	1.78	1.65	1.58	2.72	2.2	1.78	1.65	1.58
	HSPF2		9.85	-	-	-	-	9.85	-	-	-	-

1 **95°F (35°C)** 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 **105°F (41°C)** 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 **115°F (46°C)** 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)
4 **47°F (8°C)** 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)
5 **17°F (-8°C)** ID: 70°F(21.1°C), W.B. 60°F(15.6°C); OD: 17°F(-8.3°C), W.B. 13°F(-10.6°C)
6 **5°F (-15°C)** 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)
7 **0°F (-18°C)** ID: 70°F(21.1°C), W.B. 60°F(15.6°C); OD: 0°F(-17.8°C)
8 **-5°F (-21°C)** ID: 70°F(21.1°C), W.B. 60°F(15.6°C); OD: -5°F (-20.6°C)

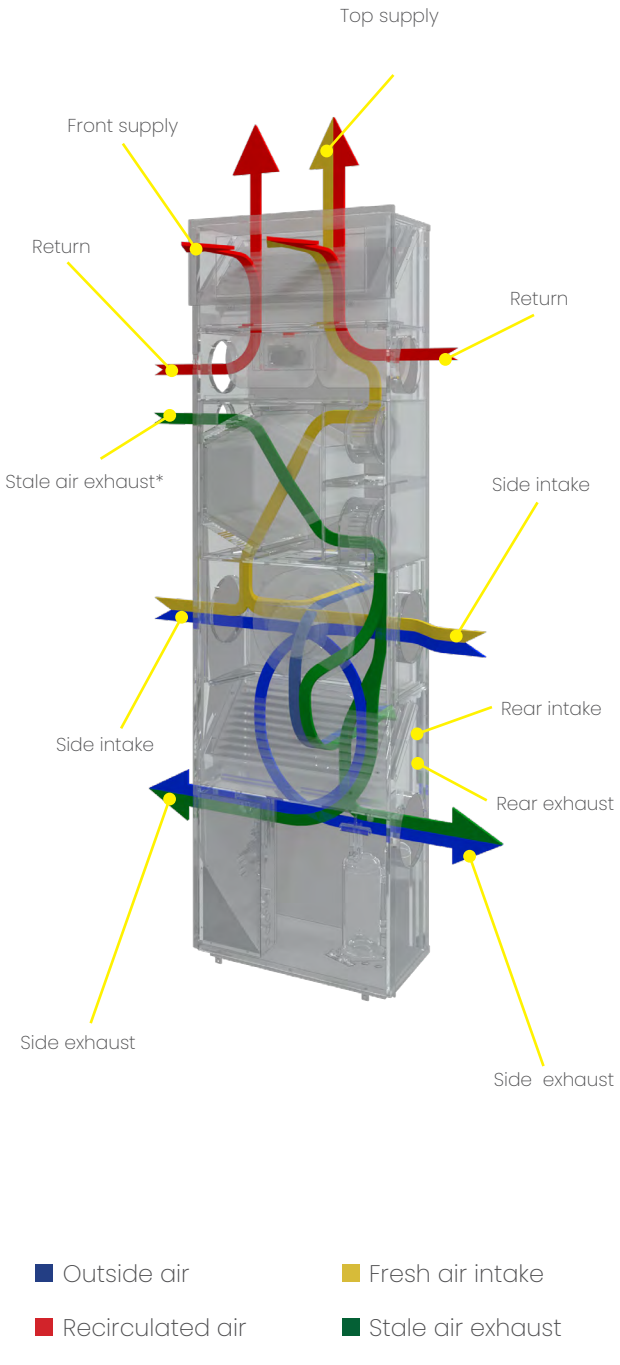
* This is the recommended capacity for sizing the unit to the space.

** The tables show Heat Pump performance only. An electric heating element can be added to provide an additional output of 3.1 or 6.1 kBtu/h (0.9 or 1.8 kW).

Airflow

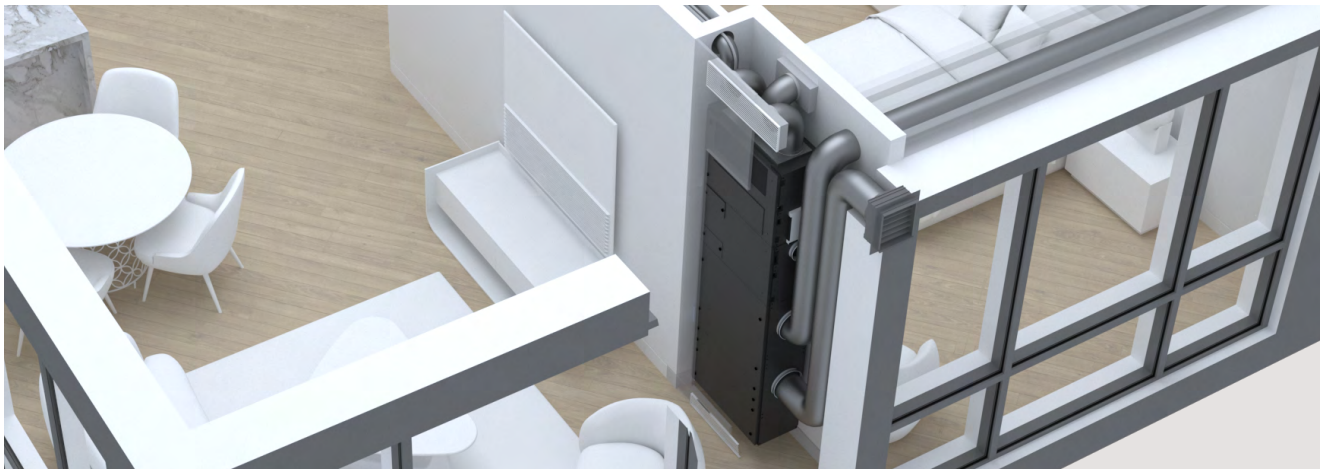
AIO Vertical Stack is extraordinarily flexible in the many ways it can be fully ducted or used with minimal or no ducting. This flexibility enables Vertical Stack to be placed anywhere in a dwelling with no restrictions.

- **Supply air**
  The front, rectangular 6.7" x 18" (170 x 457 mm) supply air connection is ideal for a supply grille. With 0.6" WC (149 Pa) external static pressure (combined between return and supply) the top rectangular 6.7" x 18" (170 x 457 mm) supply air connection is ideal for ducting to one or more rooms. For added flexibility, duct part through the top and direct vent part through the front for ducting multiple rooms with minimal ductwork.
- **Stale air exhaust**
  The 5" (127 mm) round stale air exhaust connection can be used as part of a plenum return without any ducting or can be ducted to a bathroom or multiple locations with up to 0.5" WC (125 Pa) external static pressure. This can be field swapped from left to right.
- **Return air**
  The left and right side 6" (152 mm) round connections can be ducted to one or more rooms with up to 0.6" WC (149 Pa) external static pressure (combined between return and supply). It can also be left open as a side plenum return. Each connection is fully independent with two ECM fans, each with auto ESP. Duct both, leave both open or duct one, and leave one open to a plenum.
- **Outside air intake**
  The single 8" (203 mm) round outside air intake connection can be accessed from the left, right, or rear and provides outside air for the condenser portion and fresh air. This can be ducted with up to 0.7" WC (174 Pa) external static pressure (combined between intake and exhaust).
- **Outside air exhaust**
  The single 8" (203 mm) round exhaust air connection can be accessed from the left, right, or rear, and exhausts the stale and condenser air. This can be ducted with up to 0.7" WC (174 Pa) external static pressure (combined between intake and exhaust).
- **Mix and match outside connections for total flexibility**
  The upper outside connection (left, right, and rear) is for exhaust, and the outside lower connection (left, right, and rear) is for intake. It's possible to use any combination of connections. For example: Left for intake and rear for exhaust, or rear for intake, and right for exhaust, etc.



* Can be swapped to right side.

Installation

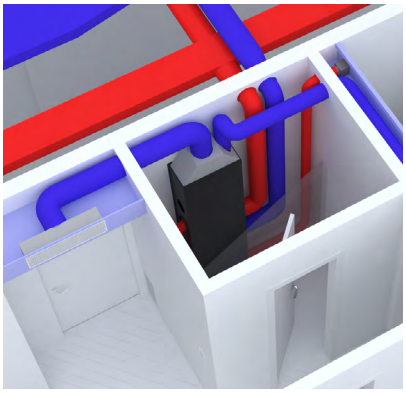




Left external vent



Right external vent



Shared supply and exhaust vents

Rough-In for Vertical Stack

COMING SOON

When vertical stack units are installed in walls, service access is often difficult.

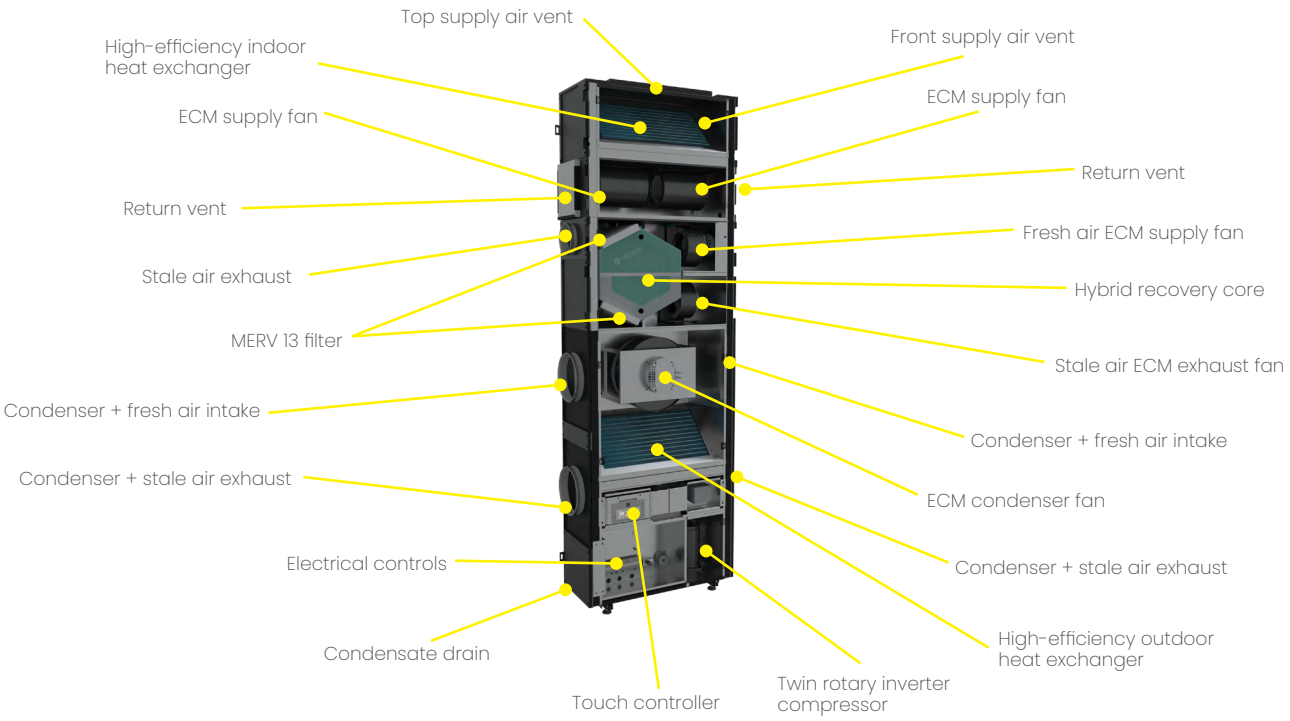
Innova solves this with an innovative rough-in box installed first, allowing the unit to easily snap in and out for service or replacement — without disconnecting ductwork or utilities. All connections remain on the rough-in box, not the unit, making maintenance faster, cleaner, and far more efficient.





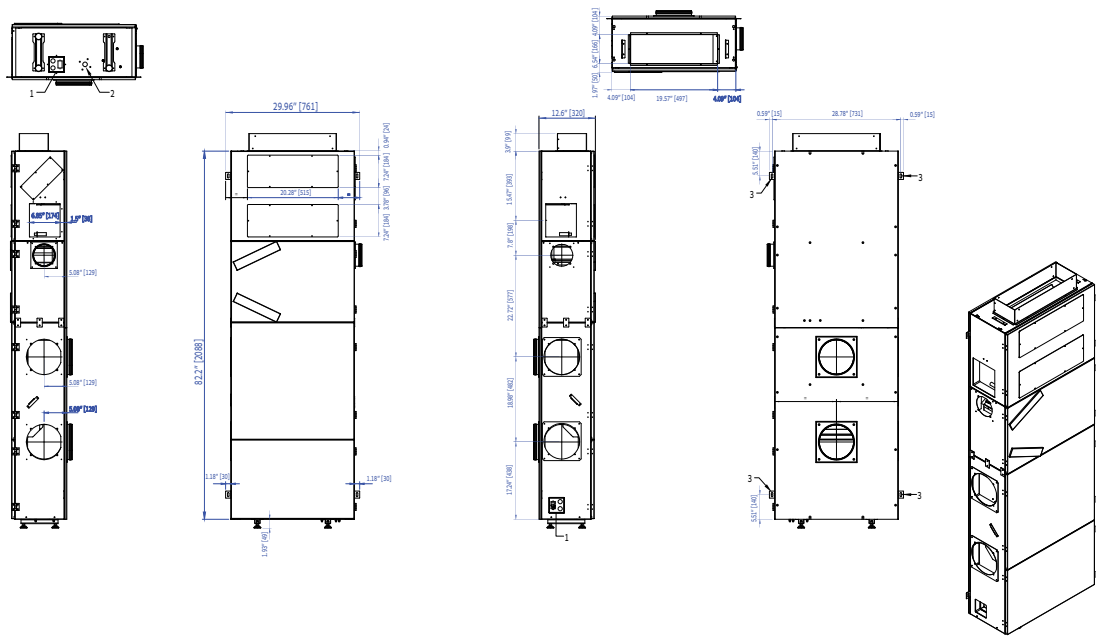


What's Inside



Dimensions

For CAD and DWG files, please scan or click the QR code below.



Cabinet

COMING SOON

Cabinet for left or right venting

The cabinet for AIO Vertical Stack ducted unit is discreet with a 12-inch by 33-inch (305 mm by 838 mm) compact footprint and a sleek, clean cabinet. Paint the all-metal cabinet to blend into any decor or leave it in factory-finished white. The cabinet offers a "built-in" look without the need for drywall, ducts, or louvers. The cabinet is available in right or left external vent configuration. To see an installation with the cabinet, click or scan the QR code.





Cabinet open



Interior



Exterior venting

Cabinet for rear venting

The rear vent cabinet for AIO Vertical Stack unit is discreet with a 12-inch by 29-inch (305 mm by 737 mm) compact footprint and a sleek, clean cabinet. Paint the all-metal cabinet to blend into any decor or leave it in factory-finished white. The cabinet offers a "built-in" look without the need for drywall, ducts, or louvers. The cabinet is for rear venting applications. To see an installation with the cabinet, click or scan the QR code.





Cabinet open



Interior



Exterior venting

Technical Specifications

Airflow		
Indoor	Type	ECM centrifugal
	CFM (m³/h)	226 - 400 (384 - 680)
	Fan Modes	Low, med, high, boost, auto
	Available ESP	N/A
	Supply connection	Integrated front
	Return connection	Integrated bottom
	Filter	MERV 3, Optional MERV 8 / 13
Outdoor	Type	ECM centrifugal
	CFM (m³/h)	385 - 638 (654 - 1,084)
	Available ESP	0.7" WC (174 Pa)
	Intake connection	8" (203 mm) round
	Exhaust connection	8" (203 mm) round
	Speeds	Low, med, high, auto
General		
Compressor	Type	BLDC twin rotary inverter
	Oil Type	Fv50s
Controls	Basic Functionality	Dependent on controller
	WiFi	Optional module available
	Power Outage Restart	Auto-on based on last setting
	Dry Contact	Yes
Modes	Operation	Cool+ fresh air, cool only, heat+ fresh air, heat only, auto
	Restricted Modes	Heat only, cool only, temperature limiting
	Timers	Dependent on the controller
Condensate	Pipe size	3/4" (19 mm) outside diameter
	Pipe Material	Rubber

ERV				
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		
Efficiency of Core in Winter		**40 CFM (68 m³/h)**	**60 CFM (102 m³/h)**	**80 CFM (136 m³/h)**
Sensible	%	81.4	77.7	74.6
Latent	%	58.1	54.2	50.4
Efficiency of Core in Summer				
Sensible	%	80.7	76.6	72.6
Latent	%	57.6	53.4	49.3
Filter				
Indoor air	MERV	MERV 3 / optional MERV 13		
Outside air	MERV	MERV 13		
Leakage				
Internal	in. WC (Pa)	2.6% at 0.40" (100)	2.4% at 0.40" (100)	2.2% at 0.40" (100)
External	in. WC (Pa)	2.8% at 1.0" (249)	2.7% at 1.0" (249)	2.5% at 1.0" (249)

		AHRI		Energy Star Certified	
Electrical Data: Heat Pump Only*		**115V**	**230V**	**115V**	**230V**
Power Supply	Ph/Hz	1/60		1/60	
Power Factor		0.96		0.96	
Input Power - standby	W	10.8		10.8	
Input Power - off mode	W	1.5		1.5	
Running Amps Cooling	A	15.9	7.9	15.9	7.9
Max. Amps Cooling	A	22.0	10.5	22.0	10.5
Running Amps Heating	A	15.9	7.9	15.9	7.9
Max. Amps Heating	A	22.0	10.5	22.0	10.5
MCA	A	26	12	26	12
MOCP	A	35	15	35	15

* See the Post and Pre Heater table.

Electrical Connection			115V	230V
LCDI Power Cord	Amps	A	N/A	15
	Plug	NEMA	N/A	6-15P
Quick-connect whip	Length	in (mm)	40 (1,016)	40 (1,016)
Electrical (General) - Motors				
Compressor	RLA	A	13	6
	LRA	A	13	6
Indoor ECM fan motor	Max Watts	W	200	200
	F.L.A.	A	2.4	1.2
	Power	HP	1/10	1/10
Outdoor ECM fan motor	Max Watts	W	320	425
	F.L.A.	A	3	2
	Power	HP	1/10	1/8

	Pre Heater		Post Heater		
	500 W	**1,000 W**	**900 W**	**1,800 W**	**2,700 W**
115 V	500 W / 4.3 A	N/A	900 W / 7.8 A	N/A	N/A
208 V	N/A	818 W / 3.9 A	736 W / 3.5 A	1,472 W / 7.1 A	2200 W / 10.6 A
230 V	N/A	1,000 W / 4.3 A	900 W / 3.9 A	1,800 W / 7.8 A	2,700 W / 11.7 A
240 V	N/A	1,089 W / 4.5 A	980 W / 4.1 A	1,960 W / 8.2 A	3,000 W / 12.5 A

Sound		
Indoor	DB range: dB(A)	27 - 43
	STC	40
	OITC	35
Outdoor	dB(A)	28 - 55

Unit Dimensions and Mechanical Details		
Dimensions		28.7" W x 12.4" D x 84.4" H + 6" fan depth
		729 mm W x 315 mm D x 2,145 mm H + 152 mm fan depth
Net weight	lb (kg)	170 (77.1)
Gross weight	lb (kg)	190 (86.2)
Cabinet finish		Black covered with dark gray EPDM
Cabinet material		Steel



AIO Vertical Stack XL

AIO Vertical Stack XL is the higher capacity version of the Vertical Stack and is designed to fit in the same space as a VTAC. The compact 24-inch by 27.4-inch (610 by 695 mm) footprint uses minimal floor space. This unit is perfect anywhere direct venting or ducting is required with up to 0.6" WC (149 Pa) external static pressure. Use any style of grille or grilles and louvers for maximum design flexibility.

A unique feature of the AIO Vertical Stack XL is that it can be installed on a corridor wall, enabling it to be fully serviced without entering the apartment or hotel room. A bathroom exhaust can connect to the dedicated stale air exhaust on either the right or left side. The Vertical Stack XL unit is available with or without the integrated ERV and can be vented directly outside or through ductwork.



Key Features

- Compact unit
- Easy to install
- High ESP for internal and external ducting
- Extraordinarily flexible ducting
- Bathroom exhaust connection
- Auto-restart
- Washable filters

Options

- Optional 3.6 kW electric heat
- With or without ERV
- 230V
- Hardwire or LCDI cord
- R32

Operation

- Cool, heat, dehumidify, and auto
- Selectable fan speeds, low, med, high, and auto
- Fresh air ERV - field configurable amount of fresh air

Mounting

- Vertical

Airflow

- 18" x 36" (457 x 914 mm) external vent
- Available 0.7" WC (174 Pa) for external ducting, adapters, and louvers
- Available 0.6" WC (149 Pa) for internal ducting and louvers

Included Controllers

- Onboard touch controller for diagnostics

Optional Controllers

- WiFi app for Android and iPhone
- Wall Mounted Advanced touchscreen with a 7-day program
- Wall Mounted Basic touch controller
- Third party thermostat interface
- BACnet/Modbus interface

No Access Required

The versatile design of AIO makes the system extremely reliable and inexpensive to maintain. If a repair is needed, a single unit can be taken offline without affecting the entire system. It's possible to install AIO Vertical Stack XL on the corridor wall of each apartment/hotel room so that all maintenance can be achieved from a common area—at any time, which means no maintenance personnel need to enter the apartment or room.



Key Specifications

High Performance & High Efficiency

			AHRI			Energy Star Certified		
			95°F (35°C)[1]	105°F (41°C)[2]	115°F (46°C)[3]	95°F (35°C)[1]	105°F (41°C)[2]	115°F (46°C)[3]
Cooling - Heat Pump Only								
Capacity	Maximum	kBtu/h (kW)	24.0 (7.0)	22.0 (6.4)	20.0 (5.9)	24.0 (7.0)	22.0 (6.4)	20.0 (5.9)
	Recommended*		22.0 (6.4)	20.5 (6.0)	18.5 (5.4)	22.0 (6.4)	20.5 (6.0)	18.5 (5.4)
	Nominal		20.3 (5.9)	18.3 (5.4)	17.5 (5.1)	11.6 (3.4)	18.3 (5.4)	17.5 (5.1)
	Minimum		4.5 (1.3)	4.5 (1.3)	4.5 (1.3)	4.5 (1.3)	4.5 (1.3)	4.5 (1.3)
Power input	Maximum	kW	2.35	2.45	2.52	2.35	2.45	2.52
	Recommended*		2.05	2.25	2.31	1.67	2.25	2.31
	Nominal		1.74	1.96	2.15	0.99	1.96	2.15
	Minimum		0.34	0.36	0.36	0.34	0.36	0.36
Efficiency	Maximum		10.23	8.98	7.94	10.23	8.98	7.94
	Recommended		10.76	9.11	8.01	13.18	9.11	8.01
	Nominal		11.65	9.36	8.15	11.70	9.36	8.15
	SEER2†		13.91	-	-	15.4	-	-
Moisture removal		Pts/h (L/h)	1.9 (0.9)	2.1 (1.0)	2.31 (1.1)	1.9 (0.9)	2.1 (1.0)	2.31 (1.1)

			AHRI				Energy Star Certified			
			47°F (8°C)[4]	17°F (-8°C)[5]	5°F (-15°C)[6]	0°F (-18°C)[7]	-5°F (-21°C)[8]	47°F (8°C)[4]	17°F (-8°C)[5]	5°F (-15°C)[6]	0°F (-18°C)[7]	-5°F (-21°C)[8]
Heating - Heat Pump Only**												
Capacity	Maximum	kBtu/h (kW)	24.0 (7.0)	17.5 (5.1)	12.5 (3.7)	9.5 (2.8)	8.2 (2.4)	24.0 (7.0)	17.5 (5.1)	12.5 (3.7)	9.5 (2.8)	8.2 (2.4)
	Recommended*		20.0 (5.9)	11.6 (3.4)	9.3 (2.7)	8.3 (2.4)	7.6 (2.2)	20.0 (5.9)	11.4 (3.3)	9.2 (2.7)	8.3 (2.4)	7.6 (2.2)
	Nominal		17.3 (5.1)	10.4 (3.0)	8.3 (2.4)	7.4 (2.2)	6.8 (2.0)	14.2 (4.2)	10.2 (3.0)	8.2 (2.4)	7.4 (2.2)	6.8 (2.0)
	Minimum		5.0 (1.5)	4.2 (1.2)	3.9 (1.1)	3.9 (1.1)	3.9 (1.1)	5.0 (1.5)	4.2 (1.2)	3.9 (1.1)	3.9 (1.1)	3.9 (1.1)
Power input	Maximum	kW	2.34	2.28	2.21	2.38	2.38	2.34	2.28	2.21	2.38	2.38
	Recommended*		1.80	1.48	1.39	1.40	1.23	1.80	1.45	1.20	1.40	1.23
	Nominal		1.42	1.29	1.21	1.22	1.06	1.16	1.26	1.05	1.22	1.06
	Minimum		0.32	0.35	0.34	0.37	0.40	0.32	0.35	0.34	0.37	0.40
Efficiency	Maximum		3.01	2.25	1.66	1.17	1.01	3.01	2.25	1.66	1.17	1.01
	Recommended		3.26	2.30	1.96	1.74	1.81	3.26	2.30	2.25	1.74	1.81
	Nominal		3.56	2.37	2.01	1.79	1.88	3.59	2.37	2.30	1.79	1.88
	Minimum		4.58	3.53	3.28	3.07	2.82	4.58	3.53	3.28	3.07	2.82
	HSPF2†		9.12	-	-	-	-	9.20	-	-	-	-

1 **95°F (35°C)** 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 **105°F (41°C)** 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 **115°F (46°C)** 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)
4 **47°F (8°C)** 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)
5 **17°F (-8°C)** ID: 70°F(21.1°C), W.B. 60°F(15.6°C); OD: 17°F(-8.3°C), W.B. 13°F(-10.6°C)
6 **5°F (-15°C)** 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)
7 **0°F (-18°C)** ID: 70°F(21.1°C), W.B. 60°F(15.6°C); OD: 0°F(-17.8°C)
8 **-5°F (-21°C)** ID: 70°F(21.1°C), W.B. 60°F(15.6°C); OD: -5°F (-20.6°C)

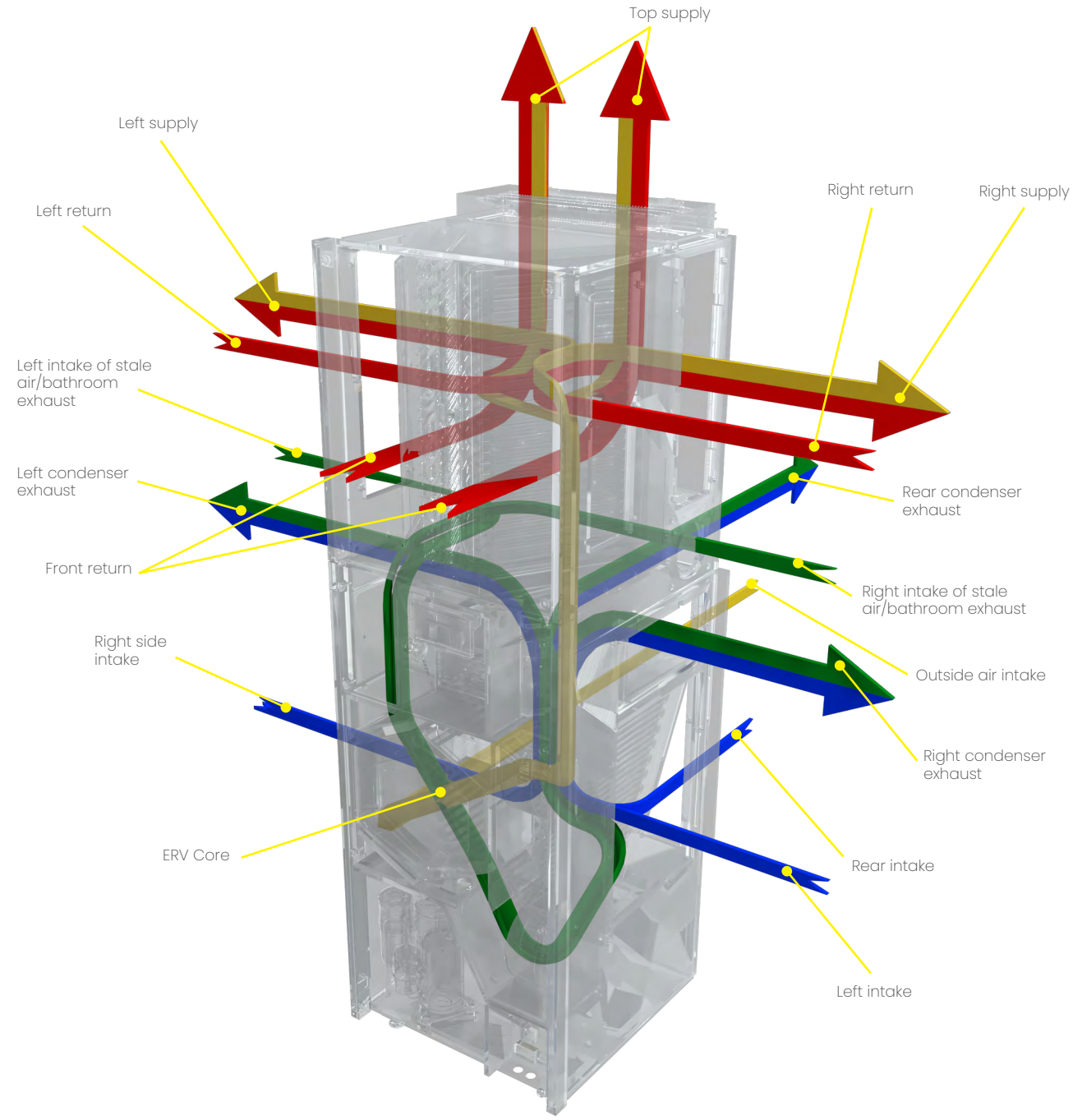
* This is the recommended capacity for sizing the unit to the space.

** The tables show Heat Pump performance only. An electric heating element can be added to provide an additional output up to 15.3 kBtu/h (4.5 kW).

† SEER2 does not apply to PTHP-type units and is shown solely to enable comparison with similar heat pump systems. Values are for reference and comparison purposes only.

Extraordinarily Flexible Ducting

Vertical Stack XL's powerful backward centrifugal ECM fan facilitates efficient condenser air movement through ductwork, enabling flexible placement within a room or apartment. Unlike traditional VTACs, it doesn't require an outside wall. The design allows air supply from the top or both sides, with flexible condenser intake options (left, right, or rear). Flexible ducting choices with 0.7" WC (174 Pa) make Vertical Stack XL versatile for installation without restrictions in any dwelling area.



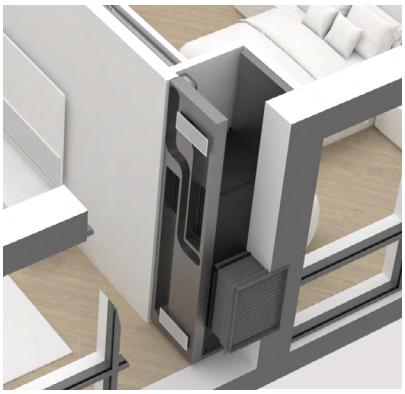
Installation



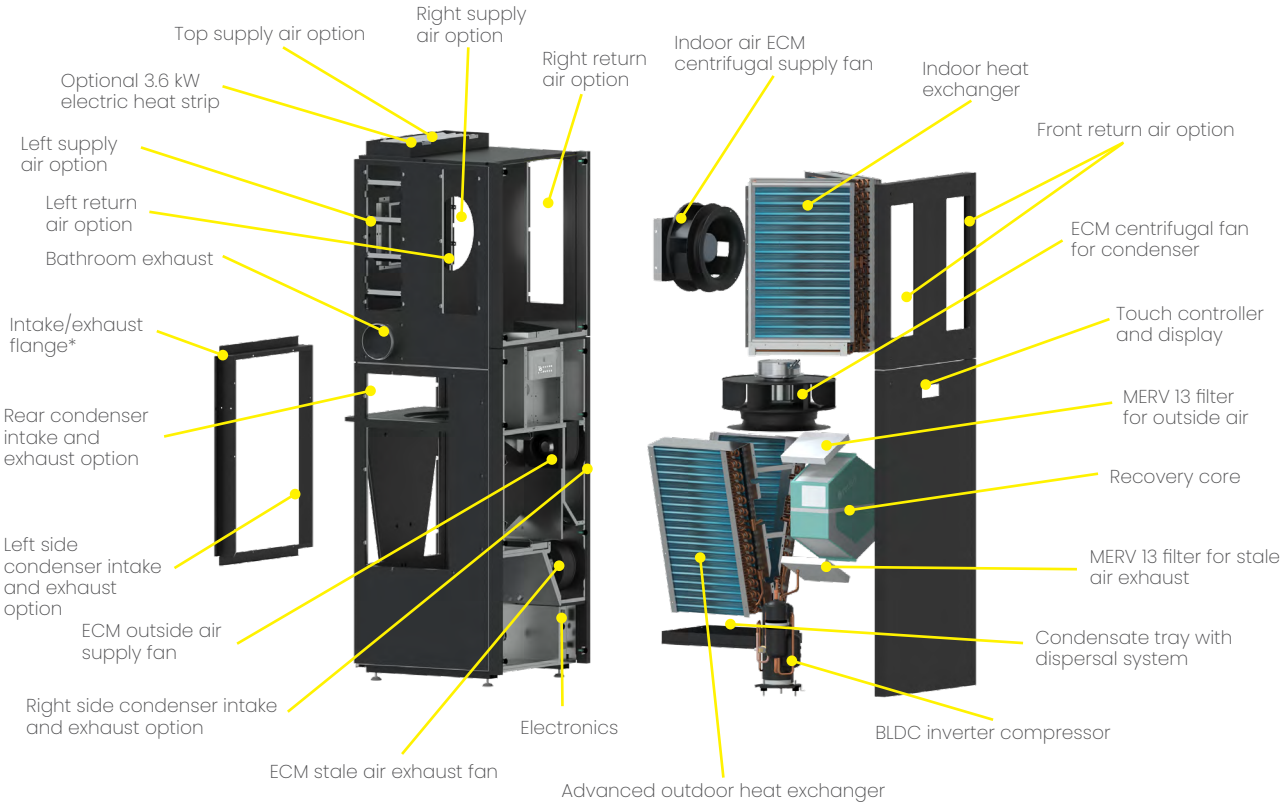
Supply upper wall – return lower on both sides of the unit



Shown with plenum adapter for simplified ducting



What's Inside



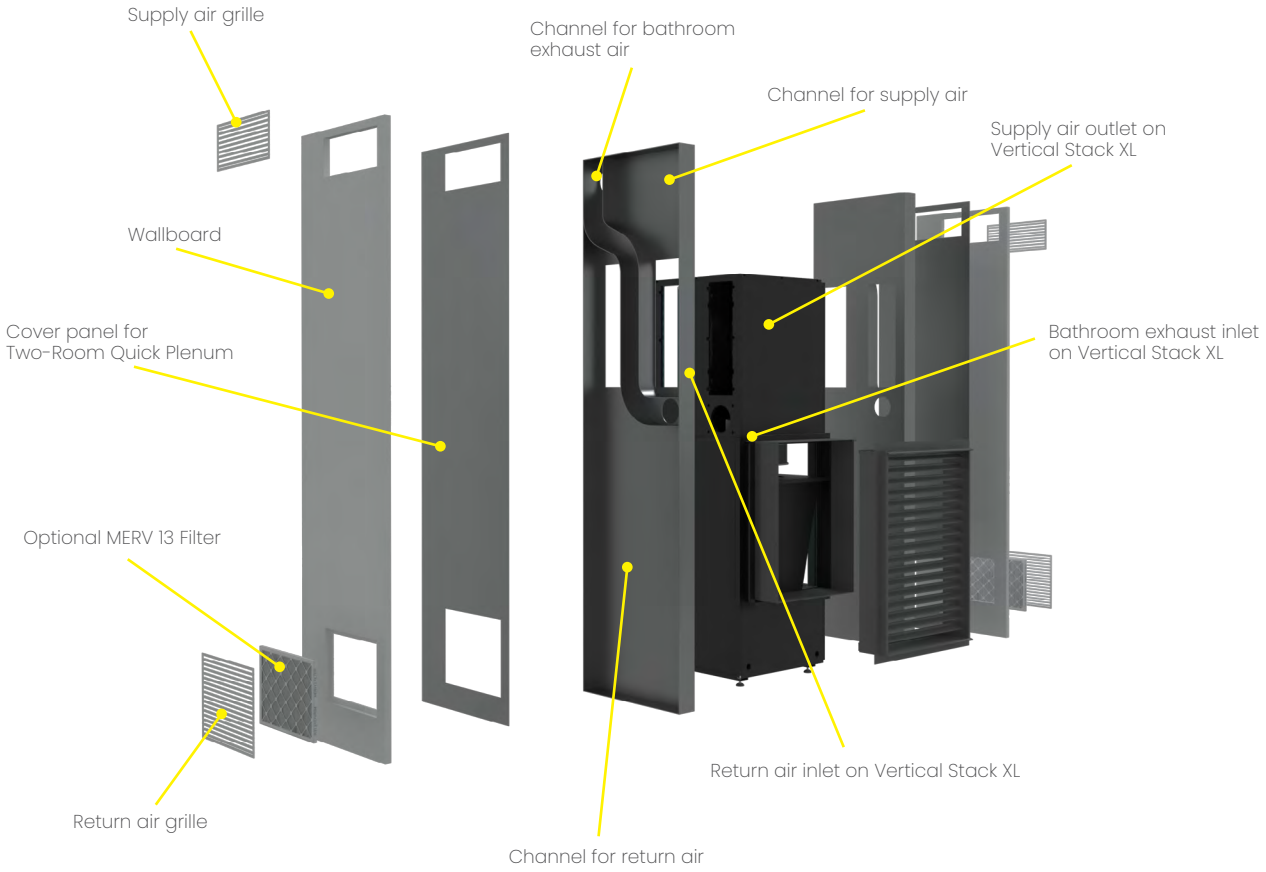
*Can be placed on rear, left or right sides.

Two-Room Quick Plenum

Introducing the Two-Room Quick Plenum, a unique, 3.5" (89 mm) deep plenum designed to fit inside a standard depth wall, offering swift and uncomplicated ducting for individual rooms flanking the Vertical Stack XL.

This innovative design ensures optimal room configuration, with supply vents located at the top and return vents at the bottom for each room. Furthermore, it includes a dedicated pathway for the bathroom exhaust to connect to the side of the Vertical Stack XL.





Technical Specifications

Airflow		
Indoor	Type	ECM centrifugal
	CFM (m³/h)	247 - 740 (420 - 1,257)
	Available ESP	N/A
	Fan Modes	Low, med, high, boost, auto
	Supply connection	Integrated front
	Return connection	Integrated bottom
	Filter	MERV 3
Outdoor	Type	ECM centrifugal
	CFM (m³/h)	382 - 1,110 (649 - 1,886)
	Available ESP	0.7" WC (174 Pa)
	Intake connection	18" x 36" (457 x 914 mm)
	Exhaust connection	18" x 36" (457 x 914 mm)
	Speeds	Low, med, high, auto
General		
Compressor	Type	BLDC twin rotary inverter
	Oil Type	Fv50s
Controls	Basic Functionality	Dependent on controller
	WiFi	Optional module available
	Power Outage Restart	Auto-on based on last setting
	Dry Contact	Yes
Modes	Operation	Cool+ fresh air, cool only, heat+ fresh air, heat only, auto
	Restricted Modes	Heat only, cool only, temperature limiting
	Timers	Dependent on the controller
Condensate	Pipe size	3/4" (19 mm) outside diameter
	Pipe Material	Rubber

ERV				
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		
Efficiency of Core in Winter		**40 CFM (68 m³/h)**	**60 CFM (102 m³/h)**	**80 CFM (136 m³/h)**
Sensible	%	81.4	77.7	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	47.3
Filter				
Indoor air	MERV	MERV 3 / optional MERV 13		
Outside air	MERV	MERV 13		
Leakage				
Internal	in. WC (Pa)	2.6% at 0.40" (100)	2.4% at 0.40" (100)	2.2% at 0.40" (100)
External	in. WC (Pa)	2.8% at 1.0" (249)	2.7% at 1.0" (249)	2.5% at 1.0" (249)

		AHRI	Energy Star Certified
Electrical Data: Heat Pump Only*		**230V**	
Power Supply	Ph/Hz	1/60	
Power Factor		0.96	
Input Power - standby	W	10.8	
Input Power - off mode	W	1.7	
Running Amps Cooling	A	7.6	4.3
Max. Amps Cooling	A	11.2	11.2
Running Amps Heating	A	8.6	7.4
Max. Amps Heating	A	11.2	11.2
MCA	A	14	14
MOCP	A	20	20

* See the Post and Pre Heater table.

Electrical Connection			230V
LCDI Power Cord	Amps	A	15
	Plug	NEMA	6-15P
Quick-connect whip	Length	in (mm)	40 (1,016)

Electrical (General) - Motors			
Compressor	RLA	A	6
	LRA	A	6
Indoor ECM fan motor	Max Watts	W	425
	F.L.A.	A	2
	Power	HP	1/6
Outdoor ECM fan motor	Max Watts	W	405
	F.L.A.	A	1.9
	Power	HP	1/8

	Pre Heater	Post Heater	
	1,000 W	**3,600 W**	**4,500 W**
208 V	818 W / 3.9 A	2,945 W / 14.2 A	3,679 W / 17.7 A
230 V	1,000 W / 4.3 A	3,600 W / 15.6 A	4,500 W / 19.6 A
240 V	1,089 W / 4.5 A	3,920 W / 16.3 A	4,898 W / 20.4 A

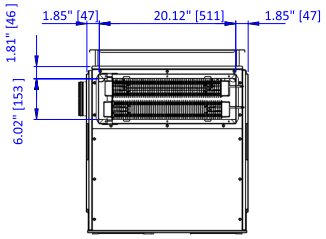
Sound		
Indoor	DB range: dB(A)	27 - 43
	STC	40
	OITC	35
Outdoor	dB(A)	28 - 55

Unit Dimensions and Mechanical Details		
Dimensions		23.8" W x 27.4" D x 76.3" H
		605 mm W x 695 mm D x 1,937 mm H
Net weight	lb (kg)	332 (150.6)
Gross weight	lb (kg)	350 (158.8)
Cabinet finish		Black covered with dark gray EPDM
Cabinet material		Steel

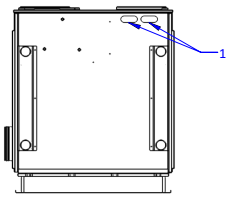
Dimensions

For CAD and DWG files, please scan or click the QR code below.

TOP VIEW

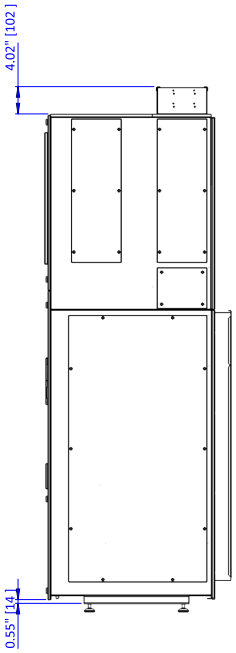


BOTTOM VIEW

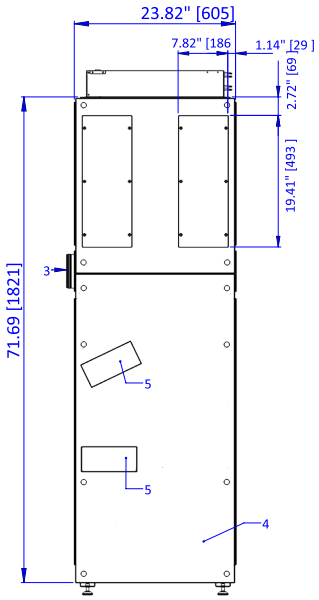


1. POWER SUPPLY
2. CONDENSATE DRAIN **Ø 0.71"[18]**
3. MALE FLANGE **Ø4.92"**
4. ELECTRICAL PANEL
5. FILTER CAP

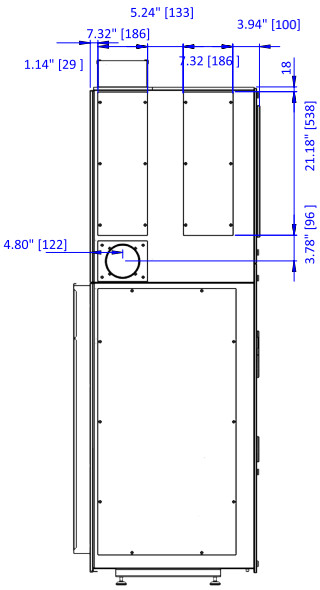
RIGHT VIEW



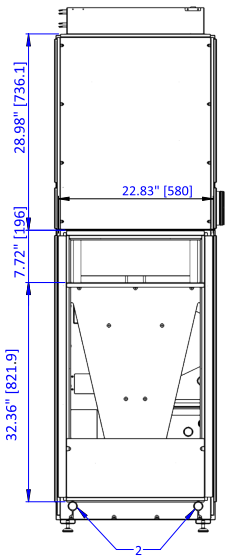
FRONT VIEW



LEFT VIEW



REAR VIEW





AIO Slim V

COMING SOON

AIO Slim V is a slimmer, sleeker replacement for a VTAC at 30% of the footprint. Slim V cools, dehumidifies, and heats a room using a BLDC inverter-driven heat pump. The condenser portion is vented through two 8-inch (203 mm) holes or a linear 8-inch-wide × 20-inch-tall (203 mm x 508 mm) louver, instead of the typical large VTAC grille. Flexible mounting options allow for slimline external louvers, perfect for curtain wall installations.



Key Features
- Ultra-slim
- Easy to install
- Auto-restart
- Washable filters

Options
- 115V or 230V
- Hardwire or LCDI cord
- R32
- 0.9 kW heat strip

Operation
- Cool, heat, dehumidify, and auto
- Selectable fan speeds, low, med, high, and auto

Airflow
- Dual 8-inch (203 mm) external vents
- Available 0.25" WC (62 Pa) for louvers

Included Controllers
- Onboard touch controller

Optional Controllers
- WiFi app for Android and iPhone
- Wall Mounted Advanced touchscreen with a 7-day program
- Wall Mounted Basic touch controller
- Third-party thermostat interface
- BACnet/Modbus interface

Technical Specifications

			95°F (35°C)[1]	105°F (41°C)[2]	115°F (46°C)[3]
Cooling - Heat Pump Only					
Capacity	Maximum	kBtu/h (kW)	10.2 (3.0)	8.0 (2.3)	7.5 (2.2)
	Nominal		9.3 (2.7)	7.4 (2.2)	7.1 (2.1)
	Minimum		3.9 (1.1)	3.3 (1.0)	3.3 (1.0)
Efficiency	SEER2		16	-	-

			47°F (8°C)[4]	17°F (-8°C)[5]	5°F (-15°C)[6]	0°F (-18°C)[7]	-5°F (-21°C)[8]
Heating - Heat Pump Only*							
Capacity	Maximum	kBtu/h (kW)	10.1 (3.0)	8.3 (2.4)	6.0 (1.8)	5.7 (1.7)	5.3 (1.6)
	Nominal		9.2 (2.7)	7.4 (2.2)	5.3 (1.6)	5.1 (1.5)	4.9 (1.4)
	Minimum		3.0 (0.9)	3.0 (0.9)	3.0 (0.9)	3.0 (0.9)	3.0 (0.9)
Efficiency	HSPF2		8.9	-	-	-	-

Airflow		
Indoor	CFM (m³/h)	165 – 400 (280 – 680)
Outdoor	CFM (m³/h)	200 – 350 (340 – 595)
Physical Data		
Depth	in (mm)	6.5 (165)

Sound		
Indoor	DB range: dB(A)	27 - 41
	STC	37
	OITC	28
Outdoor	dB(A)	28 - 52

1 **95°F (35°C)** 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 **105°F (41°C)** 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 **115°F (46°C)** 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)
4 **47°F (8°C)** 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)
5 **17°F (-8°C)** ID: 70°F(21.1°C), W.B. 60°F(15.6°C); OD: 17°F(-8.3°C), W.B. 13°F(-10.6°C)
6 **5°F (-15°C)** 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)
7 **0°F (-18°C)** ID: 70°F(21.1°C), W.B. 60°F(15.6°C); OD: 0°F(-17.8°C)
8 **-5°F (-21°C)** ID: 70°F(21.1°C), W.B. 60°F(15.6°C); OD: -5°F (-20.6°C)

*The tables show Heat Pump performance only. An electric heating element can be added to provide an additional output of 3.1 kBtu/h (0.9 kW).

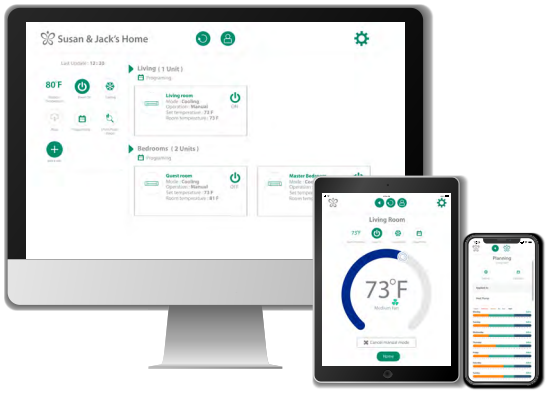


Controllers

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Android / iOS / PC App

The Innova app for Android, iOS, and PC devices enables full functionality of all modes, fan speed, temperature setting, and a comprehensive 7-day programmable timer when connected to the Internet. The app also allows groups to control multiple units as a single unit, simplifying operations. Multiple users can be connected to each Innova unit.



Key Features

- Easy and intuitive use
- Secure

Operation

- 7-day program with multiple independent schedules per day
- **Fan controls include:** low, medium, high, and auto
- **Modes include:** cool, heat, dehumidify, and fan only
- **Fresh air on/off**
- Fahrenheit or Celsius in single degree increments
- Louver control
- Sleep mode
- Control units individually or as a group
- View all units at one time

Properties

- Compatible with Android, iOS, and PC
- Internet connection required for timer and remote control

Advanced Touchscreen Controller*

The Wall Mounted, full-color, advanced touchscreen controller is the best choice for the system's easiest and most comprehensive control. The advanced touchscreen controller can be mounted right next to the light switch and is about the size of a standard light switch plate. Extensive programming offers multiple schedules for each day. Commands are intuitive and straightforward. For more details, please scan or click the QR code.



Key Features

- Full-color TFT touchscreen
- 4.3" (109.2 mm) TFT, with 480 x 272 pixel resolution

Operation

- 7-day program with multiple schedules per day
- **Fan controls include:** low, medium, high, and auto
- Louver control
- Fahrenheit or Celsius in single degree increments
- **Modes include:** cool, heat, dehumidify, and fan only
- Fresh air on/off
- Sleep mode

Properties

- **Material:** white matte plastic frame
- **Weight:** 0.5 lb (0.2 kg)
- **Dimensions:** W: 3.12" x H: 4.76" x D: 0.5" (0.75"D inside the box) (W: 79 mm x H: 121 mm x D: 13 mm [19 mm inside the box])
- **Connection:** shielded 4 conductor 18 AWG wire with a maximum 40" (1,016 mm) run
- **Mounting:** mounts to a single gang, standard depth junction box
- **Included parts:** Touchscreen Controller and interface to the unit
- 2-year limited warranty

*This controller requires a gateway board (included) which must be field installed and connected inside the unit by an electrician or technician and takes approximately 15 minutes to install.

Basic Touch Controller*

The Wall Mounted basic touch controller is simple and easy to use, with icons and text for each button. The sleek design and low profile easily blend into any decor. The LED display dims after 15 seconds, making it ideal for any room, especially a bedroom. For more information, please scan or click the QR code.



Key Features

- Backlit LED display dims after 15 seconds of inactivity

Operation

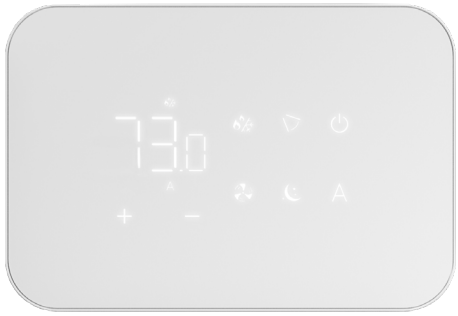
- **Modes include:** cool, heat, dehumidify, and fan only
- **Fan controls include:** low, medium, high, and auto
- Fresh air on/off
- Keypad lock
- Fahrenheit or Celsius in single degree increments
- Louver control
- Sleep mode

Properties

- **Mounting:** surface mounted
- **Materials:** white matte plastic frame, glass front
- **Dimensions:** W: 3.41" x H: 3.35" x D: 0.31" (W: 87 mm x H: 85 mm x D: 8 mm)
- **Weight:** 0.5 lb (0.2 kg)
- **Connection:** shielded 4 conductor 18 AWG wire with a maximum 40" (1,016 mm) run
- **Included parts:** Basic Touch Controller and interface to the unit
- 2-year limited warranty

Recessed Touch Controller*

The Recessed Touch Controller is elegant and simple to use. This controller is recessed into the wall and easily blends into any decor. The LED display dims after 15 seconds, making it ideal for any room, especially a bedroom.



Key Features

- Recessed into the wall
- Sleek appearance
- Backlit LED display dims after 15 seconds of inactivity

Operation

- **Modes include:** cool, heat, dehumidify, and fan only
- **Fan controls include:** low, medium, high, and auto
- Fresh air on/off
- Fahrenheit or Celsius in single degree increments
- Louver control
- Sleep mode

Properties

- **Mounting:** junction box
- **Materials:** white matte plastic frame, plastic front
- **Dimensions:** W: 4.41" x H: 2.35" x D: 0.15" (W: 112 mm x H: 60 mm x D: 3.8 mm)
- **Weight:** 0.5 lb (0.2 kg)
- **Connection:** shielded 4 conductor 18 AWG wire with a maximum 40" (1,016 mm) run
- **Included parts:** Recessed Touch Controller and interface to the unit
- 2-year limited warranty

*This controller requires a gateway board (included) which must be field installed and connected inside the unit by an electrician or technician and takes approximately 15 minutes to install.

Wireless Wall Mounted Thermostat

The wireless wall-mounted thermostat features fully programmable 7-day scheduling. It operates wirelessly, transmitting commands to the air conditioning unit via infrared (IR) signals. The thermostat is battery-powered, ensuring reliable operation without the need for direct wiring.



- **Type:** low voltage thermostat
- **Material:** flame retardant ABS plastic, rated UL94-V0
- **Temperature range:** 61°F to 88°F (16.1°C to 31.1°C)
- **Temperature accuracy:** ±2°F (±1.1°C °C)
- **Temperature differential:** 2°F (1.1°C)
- **Relative humidity:** 10% to 90% RH
- **Operating environment:** 50°F to 110°F (10°C to 43.3°C), with 5% to 95% relative humidity, non-condensing
- **Storage environment:** 0°F to 140°F (-18°C to 60°C), with 5% to 95% relative humidity, non-condensing
- **Physical dimensions:** 4.72" width x 3.22" height x 0.87" depth (120 mm width x 82 mm height x 22 mm depth)
- **Mounting:** direct wall mounting
- **Power source:** operates with 2 x AAA alkaline batteries

Advanced Third Party Gateway

The Advanced Third-Party Gateway Control Board is a versatile and feature-rich solution designed to seamlessly integrate and optimize the operations of Innova Heat Pumps. This advanced controller ensures smooth communication with building management systems, thermostats, and additional accessories, making it ideal for diverse projects with both standard and specialized requirements.



Key Features

- **Thermostats:** supports third-party thermostats and Innova-specific LTCH20 and TFTH20 models
- **Building Management System (BMS):** facilitates seamless remote communication via Modbus and BACnet protocols
- **WiFi connectivity:** allows control through a dedicated app for smartphones, tablets, and computers
- **Electric heater and baseboard control:** supports operation and integration with electric heaters and baseboards
- **Fresh air unit:** integrates control for fresh air intake systems
- **External temperature sensor:** operates the electric heater based on external temperature conditions
- **Motion detector:** activates energy-saving modes based on room occupancy
- **Power line selector:** operates with either 120V or 230V AC power sources

Operation

- **On/off**
- **Set-point modes including:** cool, heat, dehumidify, and fan only
- **Fan speed including:** low, medium, high, and auto

Properties

- **Power supply:** operates on either 120V or 230V AC, 50/60 Hz
- **Power consumption:** 7 VA
- **Operating environment:** functional between 40°F (4.4°C) and 158°F (70°C)
- **Storage environment:** stable between 0°F (-18°C) and 158°F (70°C) at 90% relative humidity (non-condensing)
- **Relay rating:** dry contact relay rated at 1 Amp
- **Communication protocols:** Modbus and BACnet over RS485 for BMS integration
- **Thermostat connections:**
  - Innova LTCH20/TFTH20 thermostats: connected via 4 screw terminals
  - Third-party thermostats: connected via 7 screw terminals
- **Control settings:** DIP switches configure mode of operation and bus address
- **Fuse protection:** 0.3 Amp fuse
- **Dimensions:** 6" x 2.7" x 1" (152 mm x 68 mm x 25 mm)

Third Party Gateway*

The third-party gateway offers the ability to control units with any standard or smart thermostat. Innova's BLDC inverter compressor can't be controlled by a regular or smart thermostat that sends an on-off signal. The TPG sends signals from the connected standard or smart thermostat to the unit's processor, controlling the inverter compressor. For more details, please scan or click the QR code.



Key Features

- Enables all the benefits of a smart thermostat such as Nest™, Ecobee™, etc., for timers and controls
- Included 24V power supply

Operation

- On/off
- **Set-point modes including:** cool, heat, dehumidify, and fan only
- **Fan speed including:** low, medium, high, and auto

Properties

- **Connections to thermostats include:** R, C, Y, W, G1, G2, G3 and 24V power terminals
- **Dimensions:** W: 2.65" x L: 3.54" x D: 1.5" (W: 67 mm x L: 90 mm x D: 38 mm)
- **Weight:** 0.5 lb (0.2 kg)
- Gateway mounts inside the unit
- **Included parts:** third-party gateway and Interface to the unit
- 2-year limited warranty

BACnet and Modbus Gateway*

The BACnet and Modbus gateway enables building management systems (BMS) to control and monitor the unit's functionality. For more information, please scan or click the QR code.



Key Features

- Enables full control, status and reporting of Innova systems to BACnet and Modbus systems
- View error messages

Operation

- On/off
- Set-point
- **Modes including:** cool, heat, dehumidify, and fan only
- Fahrenheit or Celsius in single degree increments
- **Fan speed including:** low, medium, high, and auto
- Fresh air on/off

Properties

- **Connection:** IP/MSTP gateway
- **Dimensions:** W: 3.12" x L: 4.76" x H: 1.25" (W: 79 mm x L: 121 mm x D: 32 mm)
- Interface mounts inside the unit
- **Included parts:** BACnet/Modbus interface and interface to the unit
- 2-year limited warranty

*This controller requires a gateway board (included) which must be field installed and connected inside the unit by an electrician or technician and takes approximately 15 minutes to install.

Wireless Energy Management Thermostat

with Built-in Occupancy Sensor

This smart thermostat has an integrated occupancy sensor that uses a combination of motion and thermal sensing technologies for accurate occupancy detection. Reliable occupancy detection allows for energy savings when rooms are unoccupied. Fully configurable energy-saving settings allow for customization of the thermostat settings to fit any situation. Built-in wireless mesh-networking enables online management.



Key Features

- Fingerprint-resistant glass ensures that your thermostat maintains a sleek and spotless appearance, even with daily use
- Effortlessly adjust temperature settings and access features with a simple tap
- Enjoy seamless control through a user-friendly interface, designed for intuitive navigation and personalized comfort
- Ensure optimal comfort and energy efficiency by setting personalized temperature schedules for each day of the week

Operation

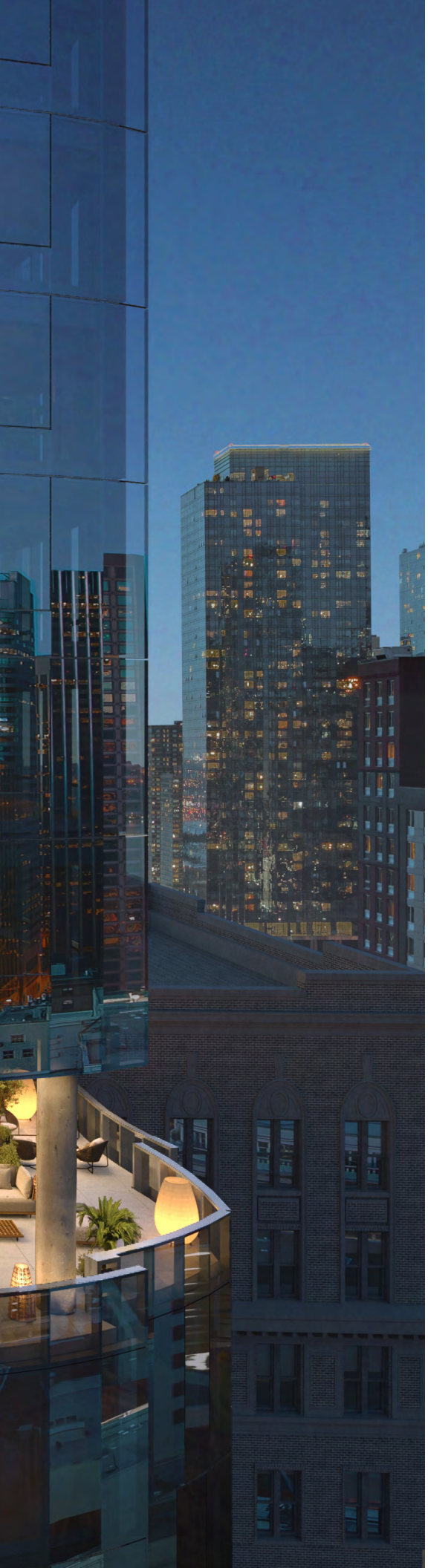
- **Modes include:** cool, heat, dehumidify, and fan only
- **Fan controls include:** low, medium, high, and auto
- Humidity control
- Fahrenheit or Celsius in single degree increments

Properties

- **Mounting:** surface mounted
- **Materials:** black matte plastic frame
- **Dimensions:** 5.60" x 3.46" x 0.91" (142 mm x 88 mm x 23 mm)
- Wireless 902-928 MHz.
- 2 x 1.5 VDC AA Alkaline non-rechargeable batteries - not supplied 24 VAC or 12 VDC
- **Included parts:** controller and interface to the unit
- 2-year limited warranty


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Louvers

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Custom Solutions



Requirements



AIO series units can be vented through all kinds of custom and creative solutions.
The possibilities are endless, from perforated panels to custom louvers. In the design shown above, FXCollaborative Architects created a facade with no visible louvers. The supply and exhaust air flows behind the panels and then through the gap below the windows, achieving an aesthetically pleasing and water-resistant solution.

Many louver/grille/venting solutions can be designed to work with AIO and meet the performance requirements. In addition to the Sunvent and Thermaduct louvers, the following louvers are approved for the Wall Mounted Standard unit: Primex: WCL8, WC6, WC8 and Dundas Jafine: IH6WXZ. When selecting a louver, there are two critical factors in sizing a solution that will work with AIO series heat pumps:

Free area

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

Model	Supply	Exhaust
Wall Mounted	0.21 ft² (0.020 m²)	0.21 ft² (0.020 m²)
Wall Mounted Pro	0.34 ft² (0.032 m²)	0.34 ft² (0.032 m²)
Floor Standing	0.21 ft² (0.020 m²)	0.21 ft² (0.020 m²)
Ceiling Ducted	0.34 ft² (0.032 m²)	0.34 ft² (0.032 m²)
Ceiling Suspended	0.34 ft² (0.032 m²)	0.34 ft² (0.032 m²)
Vertical Stack	0.34 ft² (0.032 m²)	0.34 ft² (0.032 m²)
Vertical Stack XL	0.80 ft² (0.074 m²)	0.80 ft² (0.074 m²)

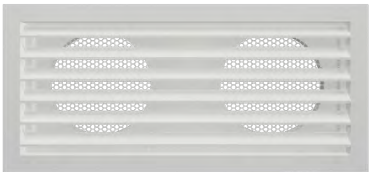
Pressure drop

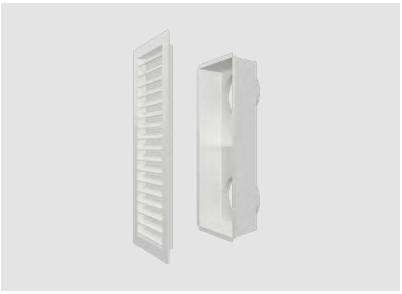
Pressure drop is the resistance the louver/grille creates against the airflow. This resistance can create heat build-up inside the condenser portion, causing the compressor to overheat and shut down. A solution with a higher pressure drop than specified can be utilized by enlarging the louver and plenum until the pressure drop is within specification. The total pressure drop is for the return and supply combined. The return and supply do not need to be the same, as long as the combination does not exceed the total.

Model	Max CFM (m³/h)	Total
Wall Mounted	325 (552)	0.25 in. WC (62 Pa)
Wall Mounted Pro	450 (765)	0.45 in. WC (112 Pa)
Floor Standing	350 (595)	0.25 in. WC (62 Pa)
Ceiling Ducted	640 (1,087)	0.70 in. WC (174 Pa)
Ceiling Suspended	640 (1,087)	0.45 in. WC (112 Pa)
Vertical Stack	640 (1,087)	0.70 in. WC (174 Pa)
Vertical Stack XL	1,110 (1,886)	0.70 in. WC (174 Pa)

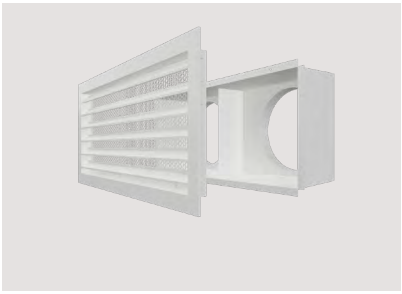
Flange Louver Assembly

Designed for use with the AIO series heat pumps, the standard flange linear louver assembly offers clean architectural lines and excellent airflow performance. LLA/F is serious about keeping water out with unique features that provide fail-safe protection against water intrusion, ensuring that no matter the circumstance, no water will enter the wall assembly or inside the room. The two-part assembly consisting of a plenum box and separate louver enables flexible and easy installation. Concealed screws on the side of the louver fasten to the plenum box, so no screws mar the front. LLA/F can be finished in baked enamel or Kynar in any custom color. LLA/F is available in four configurations: horizontal, elongated, vertical, and single. The LLA/F series louvers are tested to meet ASHRAE 62.2-2016 section 6.8.4 as a combination louver. To view the brochure with all pricing and details, please scan or click the QR code.

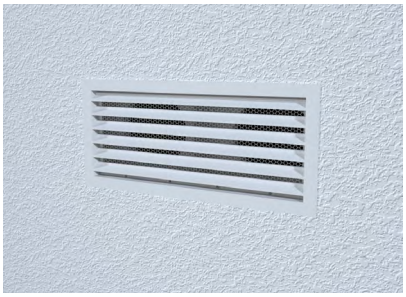




Vertical configuration



Horizontal configuration



Installed

Concealed Louver Assembly

Designed for the Innova AIO series heat pumps and engineered for the highest aesthetic appeal with only a 1/4" (6.35 mm) visible frame, the concealed flange linear louver assembly offers clean architectural lines and excellent airflow performance. LLA/C is serious about keeping water out with unique features that provide fail-safe protection against water intrusion, ensuring that no matter the circumstance, no water will enter the wall assembly or inside the room. The concealed flange is available in any setback depth to accommodate any wall assembly, from stucco to brick, from siding to glass or aluminum panels. LLA/C can be finished in baked enamel or Kynar in any custom color. LLA/C is available in four configurations: horizontal, elongated, vertical, and single. The LLA/C series louvers are tested to meet ASHRAE 62.2-2016 section 6.8.4 as a combination louver. To view the brochure with all pricing and details, please scan or click the QR code.





Vertical configuration



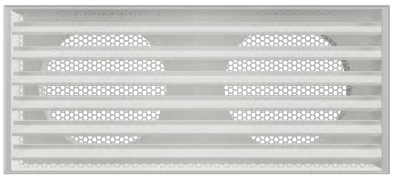
Horizontal configuration



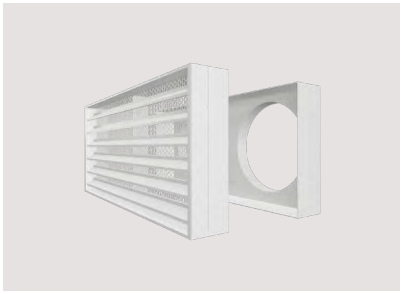
Installation cutaway

Surface-Mounted Louver Assembly

Approved for Innova AIO series heat pumps, LLA/S louvers are designed for retrofit installations where core drilling the holes without making a larger opening is desirable and can also be set in wood or vinyl siding with minimal depth visible.



The surface-mounted linear louver assembly offers clean architectural lines and excellent airflow performance. The two-part assembly consisting of a plenum box and separate louver enables flexible and easy installation. LLA/S is serious about keeping water out with unique features that provide failsafe protections for water intrusion, ensuring that no matter the circumstance, no water will enter the wall assembly or inside the room. LLA/S is available in two configurations: horizontal and single. LLA/S can be finished in baked enamel or Kynar in any custom color. The LLA/S series louvers are tested to meet ASHRAE 62.2-2016 section 6.8.4 as a combination louver. To view the brochure with all pricing and details, please scan or click the QR code.



Louver and plenum box separated



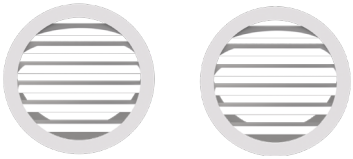
Louver and plenum box combined



Installation in vinyl siding

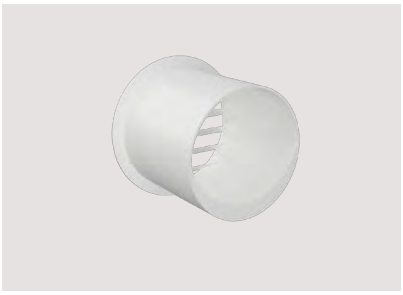
Round Vents

Designed for use with the AIO series heat pumps, the RLA series assembly offers easy installation, clean architectural lines, and excellent airflow performance.

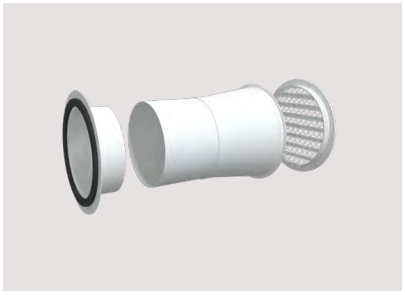


RLA is serious about keeping water out with unique features that provide fail-safe protection against water intrusion, ensuring that no matter the circumstance, no water will enter the wall assembly or inside the room.

The three-part assembly consists of an outer sleeve, an inner sleeve, and a cast louver.



Front

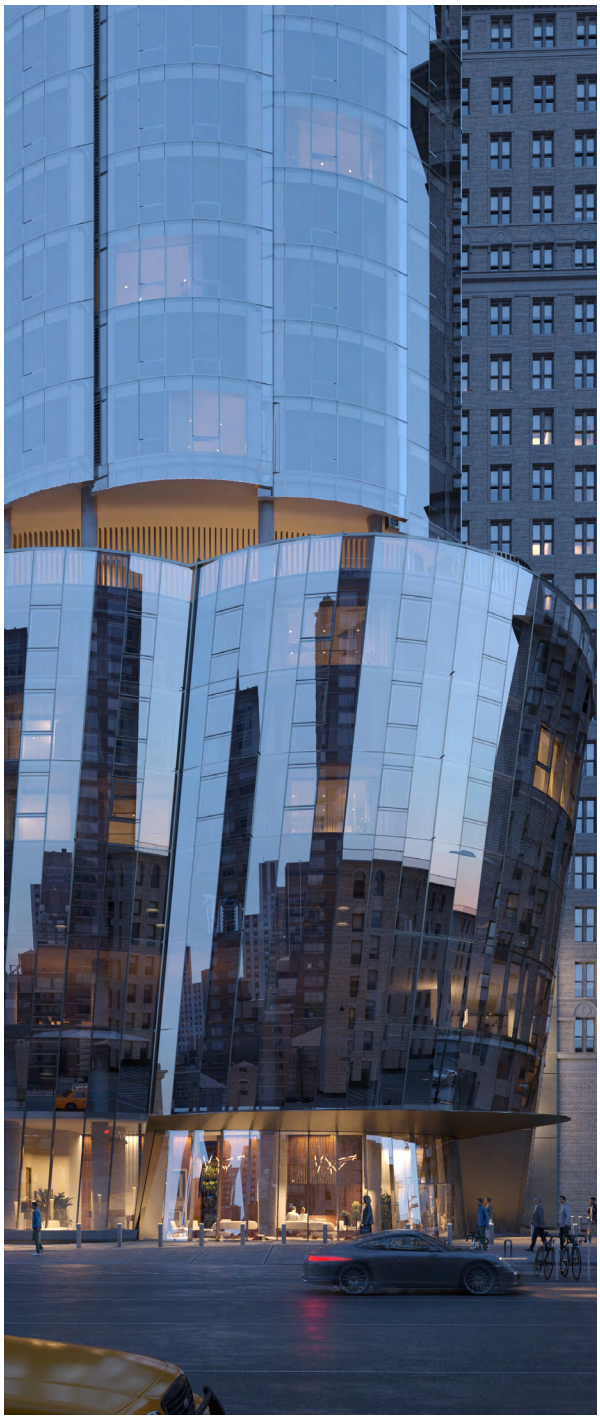


Rear with gasket



Installed

Achieving a grille-less look at one of NYC's newest skyscrapers



The Challenge

Design a stunning 73-story skyscraper in NYC, where the HVAC system can seamlessly be built into the aesthetics of the design without compromising on quality, functionality and style.

The Solution

Innova's All-In-One heat pump with no outdoor unit.

Working together with Innova we created overlapping glass fins that give the building a building a grille-less look. It was great to partner with Innova to find the harmony of design and HVAC efficiency

– Dan Damir Sehic
Partner at C3D Architecture

Developer: Sioni Group

Principal: Dan Damir Sehic, AIA

Architect in charge: Serdar Vardar, Assoc. AIA





Warranty

Ten-Year Limited Warranty

This limited warranty is valid only in the United States and Canada and only for the INNOVA heat pump which was purchased and installed in its original installation location.

This warranty is only valid when the INNOVA heat pump air conditioner meets all the conditions below:

- Purchased from an INNOVA authorized distributor.
- Installed by an INNOVA certified technician.
- The installation was self-certified or field-certified and approved by INNOVA before the heat pump was used.
- The unit is operated and maintained in accordance with the printed instructions in the user guide and in compliance with applicable local installation and building codes and good trade practices.
- The site must have a minimum of ten (10) units and there must be spare stock equal to 3% of total units (minimum of 5 units). These spare units must be used to replace a unit with a service issue until an INNOVA technician can be on-site. See full Terms & Conditions for details.
- You must submit documented filter cleaning every month. You must submit professional coil cleaning every 18 months.
- For any jobs sold with fewer than 10 units the distributor/dealer is responsible for all labor costs and responsible for having attic stock for replacements.
- Every job must be inspected before turning on the units, and pictures of at least 10% of the units must be sent to our office. There are no exceptions. The warranty is not valid without a written letter from INNOVA after the installation pictures are reviewed per the self-certification process guide.

What This On-Site Warranty Covers

Innova, Inc. ("INNOVA") warrants your INNOVA heat pump air conditioner ("unit") against failure due to defects in materials or workmanship under normal use, beginning on the date of certification and approval by INNOVA for the following periods:

Full Two-Year Warranty

For the period of two years from the date of certification and approval by INNOVA, INNOVA will replace any part of the unit which fails due to a defect in materials or workmanship. During this full two-year warranty, INNOVA will provide on-site, free of charge, all labor and related service costs to replace the defective part. If no INNOVA technician is available, INNOVA will coordinate a local contractor and cover pre-approved labor costs. If repair is not feasible, a refurbished replacement unit will be provided and shipping covered. Labor excludes removal/reinstallation of hardwired units without quick disconnects.

Limited Three-Year Warranty on Parts

The limited three-year warranty on parts takes effect immediately following the expiration of the initial three-year warranty period. This extended warranty ensures that the key components of the unit remain protected against defects in materials and workmanship for an additional three years, provided the system has been installed, operated, and maintained according to the manufacturer's guidelines. During this period, any qualifying part that fails due to a manufacturing defect will be repaired or replaced at no cost for the part itself, though labor and associated costs are not covered.

Limited Ten-Year Warranty on Compressor

For the period of ten years from the date of certification by the INNOVA technician, INNOVA will replace the compressor part should it fail due to a defect in materials or workmanship. During this limited ten-year compressor warranty, INNOVA will provide a replacement compressor; however, you will be responsible for all labor costs and related service costs.

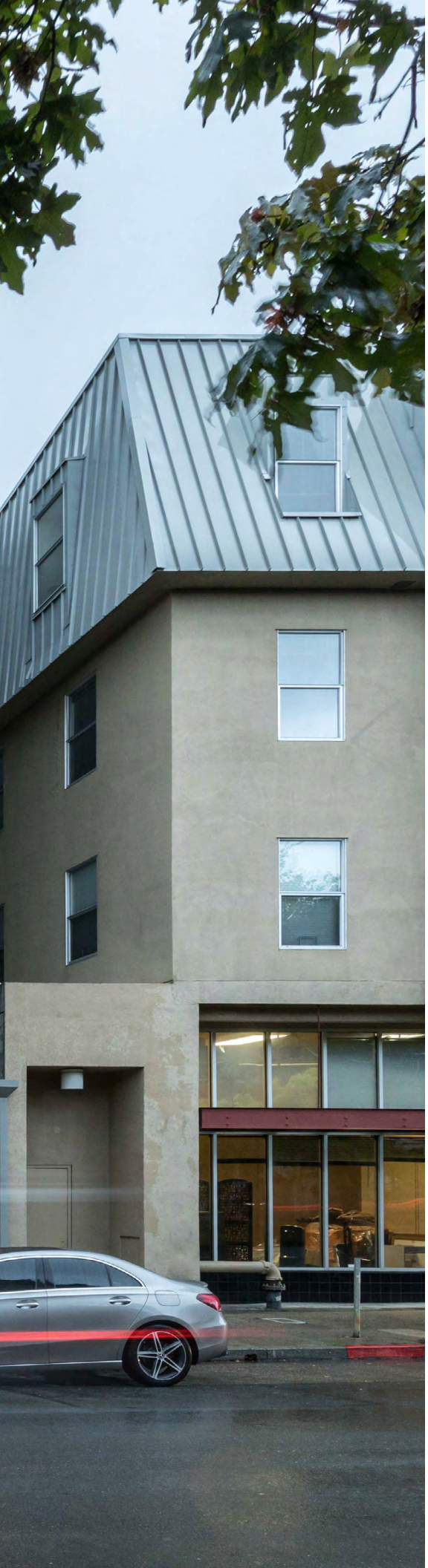
Optional Extended Five, Ten and Fifteen Year Comprehensive Warranty

A comprehensive extended warranty is available for five, ten, and fifteen years from the date of certification and approval by the INNOVA. During this extended warranty, INNOVA will replace any part of the unit which fails due to a defect in materials or workmanship.

During this extended warranty period, INNOVA will provide, on-site, free of charge, all labor and related service costs to replace the defective part. If no INNOVA technician is available, INNOVA will coordinate a local contractor and cover pre-approved labor costs. If repair is not feasible, a refurbished replacement unit will be provided and shipping covered. Labor excludes removal/reinstallation of hardwired units without quick disconnects. Extended warranties must be purchased directly from INNOVA within 90 days of installation. Controllers carry a two-year warranty; the warranty does not cover damage caused by failure of the controller or gateway as a result of any cause, including natural disasters, accidents, misuse, improper wiring, or installation.

For the full Terms & Conditions scan the QR-code, or visit innova.co/caw.


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Success Stories

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University of Vermont's Catamount East Campus



Overview

The University of Vermont's Catamount East campus, located at 1068 Williston Road, South Burlington, Vermont, is a newly constructed, UVM-managed apartment building designed to accommodate the university's growing student population. Reserved for juniors, seniors, and transfer students, Catamount East offers a modern living environment tailored to the needs of its residents. The building was developed in collaboration with Stewart Construction, Larkin Realty, Thermal Environment Sales, Engineering Services of Vermont, and Avonda Air Systems, with a focus on sustainability, efficiency, and comfort.

The Challenge

With Vermont's notoriously cold winters and the building's original design intended for multi-residential use, Larkin Realty, the building owner, faced the challenge of selecting an HVAC solution that could provide consistent, efficient heating without the complications of running refrigerant lines. The solution also needed to qualify for rebates under the "Efficiency Vermont" program, managed by the Vermont Energy Investment Corporation (VEIC).

Quick Stats

Region: South Burlington, VT

Building type: Mixed-use, apartments

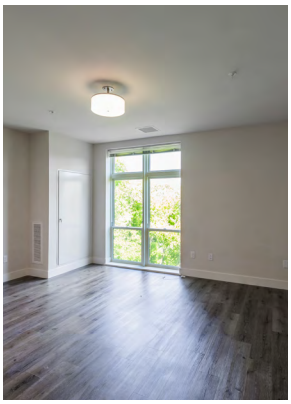
No. of Rooms: 86

No. of Units: 95

Unit Name:
AIO Vertical Stack
AIO Ceiling Ducted

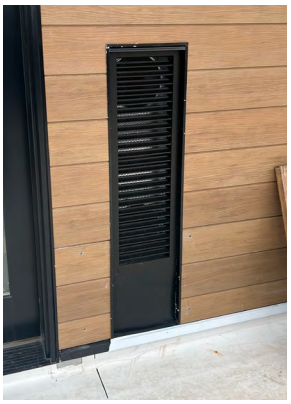
Project Team:
Larkin Realty, Stewart Construction, Thermal Environment Sales, Engineering Services of Vermont, and Avonda Air Systems

Results:
Successful performance under extreme cold temperatures without compromising on efficiency









The Solution

Joe Larkin of Larkin Realty, driven by the vision to find the most efficient and practical solution, chose Innova's AIO Vertical Stack inverter heat pumps for the project. A total of 86 AIO Vertical Stack units were installed, one in each dorm room, complemented by 9 AIO Ceiling Ducted units for the hallways. These units were chosen for their high efficiency, compact design, and innovative "all-in-one" system that includes an Energy Recovery Ventilator (ERV), MERV 13 filter, and integrated bathroom exhaust.

Innova's AIO units offered a perfect solution for Catamount East's specific needs:

- **Compact Design:** The AIO Vertical Stack unit, with a footprint of just 12 inches by 25 inches, requires minimal floor space, making it ideal for dorm rooms.
- **All-in-One Functionality:** The unit's ability to provide heating, cooling, and ventilation within a single, compact package was a major advantage, eliminating the need for additional systems and reducing installation complexity.
- **Cold Climate Performance:** Designed to operate efficiently even at temperatures as low as -11°F (-23.9°C), the AIO units were well-suited to Vermont's harsh winters.
- **Ease of Installation:** The absence of outdoor units and refrigerant lines significantly simplified the installation process, allowing the project to meet its tight occupancy deadlines.

Results

The installation of Innova's AIO units not only met but exceeded the project's goals. The efficiency and performance of the heat pumps qualified Catamount East for substantial rebates under the "Efficiency Vermont" program, contributing to the project's financial viability. The successful implementation of this innovative solution has set a new standard for future developments in Vermont.

> **What really caught everyone's eye is the 'all-in-one' solution that Innova delivers. This sets the new standard and is impossible to consider anything different. We value our continued partnership with Innova.**
>
> - Joe Larkin, CFO at Larkin Realty

Impact and Future Plans

The success of the Catamount East project has catalyzed further adoption of Innova's AIO heat pumps across Vermont. Plans are already in place for nearly 1,000 additional installations in the coming year, reinforcing Innova's position as a leader in sustainable HVAC solutions.

Innova's Heat Pump Installation in the Tallest Building in Portland, Maine



Overview

Located at 201 Federal Street in the heart of Portland's business and historic district, 'The Casco' is the newest addition to the cityscape standing tall at 18 stories and 190 ft (57.9 m), surpassing the Cathedral of the Immaculate Conception's long-held title as the tallest building in Portland.

This state-of-the-art residential building boasts 265 rental apartments and offers premium amenities including a gym, workspace, and sky lounge. Construction began in 2021, under the leadership of Redfern Properties as the developer, with Landry French as the general contractor collaborating with Ranor Mechanical.

The Challenge

During the planning stages, the project team faced a significant challenge: the decision to move away from traditional PTAC systems. Known for their unattractive appearance, high noise levels, and inefficiency, PTAC systems were not aligned with the modern, high-end vision for the building. However, the building's facade had already been designed to accommodate PTAC units, posing an additional hurdle.

Quick Stats

Region: Portland, Maine

Building type: Mixed-use, apartments

No. of Apartments: 265

No. of Units: 414

Unit Name:
AIO Wall Mounted Pro units

Project Team:
Redfern Properties
Landry French Construction
Ranor Mechanical

Results:
Successful PTAC replacement with a big upgrade in aesthetics and efficiency





The Solution

The search for an alternative led the team to Innova's AIO Wall Mounted Pro units. These units offered an ideal solution with their sleek design, whisper-quiet operation, and superior efficiency. Furthermore, the AIO units are highly adaptable and easy to install, featuring plenum and louver adapters that fit perfectly into the predesignated PTAC areas on the facade. This adaptability made them the perfect replacement for the planned PTAC systems.

We value our relationship with Innova. They are extremely responsive with world-class service. Projects never go 100% as planned; there are always hiccups. Knowing Innova is there to help if anything goes awry is the most important aspect to look out for in a partnership. We look forward to doing future projects together.

– Aaron St. Pierre, President, Ranor Mechanical

Implementation

Ranor Mechanical played a crucial role in implementing Innova's solution, installing a total of 414 AIO Wall Mounted Pro units. The installation process was seamless, thanks to the units' design and the support from Innova's team. The project was completed successfully, setting a new standard for residential buildings in Portland.

The Results

The installation of Innova's heat pumps brought numerous benefits:

- **Aesthetic Enhancement:** The sleek design of the AIO units complemented the building's modern architecture.
- **Noise Reduction:** The super quiet operation of the units significantly improved the living experience for residents.
- **Efficiency Gains:** The high efficiency of the units contributed to lower energy consumption and reduced operational costs.
- **Ease of Installation:** The adaptability of the AIO units facilitated a smooth installation process, despite the initial design constraints for PTAC systems.

Conclusion

Innova's AIO Wall Mounted Pro units have set a new benchmark for efficiency, aesthetics, and adaptability in the tallest residential building in Portland, Maine. This project stands as a testament to Innova's commitment to innovation and excellence in heating solutions.

Transforming Comfort and Efficiency at The Gotham Hotel



Overview

Built in 2010, The Gotham Hotel on 46th Street in New York City (thegothamhotelny.com) shares a historic bond with the city that rivals its oldest hotels.

The Gotham Hotel is an independently owned and family-operated 67-room Midtown Manhattan boutique hotel with sleek and modern accommodations, amenities and service.

The Challenge

Guests at The Gotham Hotel frequently complained about the noisy PTAC systems in their rooms, which failed to cool effectively. This negatively impacted online reviews and customer satisfaction scores. Additionally, the bulky appearance of the PTAC units clashed with the boutique style of the hotel.

The Solution

Adnan Balic, Chief Engineer at The Gotham Hotel, sought an alternative to the PTAC units and discovered Innova's heat pumps, with no outdoor unit. After piloting one unit in a room and receiving zero complaints within a year, Adnan decided to roll out more installations in phases during less busy seasons.

Quick Stats

Region: NYC

Building type: Hotel

No. of Rooms: 67

No. of Units: 75

Unit Name:
AIO Wall Mounted Heat Pump

Results:
Reduced customer complaints to zero







Implementation

The phased installation began with an additional 10 units, followed by 20 more, and finally the remaining units. In total, 75 Innova Wall Mounted units were installed across 67 rooms. The installation process was so straightforward that Adnan was able to install 50% of the units himself.

The Results

The measurable benefits of the Innova heat pumps were significant:

- **Customer Satisfaction:** Increased due to improved aesthetics, comfort, and reduced noise levels.
- **Maintenance:** Maintenance tickets regarding AC issues dropped to zero, making Adnan's job easier.
- **Efficiency Gains:** The dramatic efficiency of Innova's heat pump solutions led to The Gotham Hotel receiving rebates from Con Edison, New York's energy company.

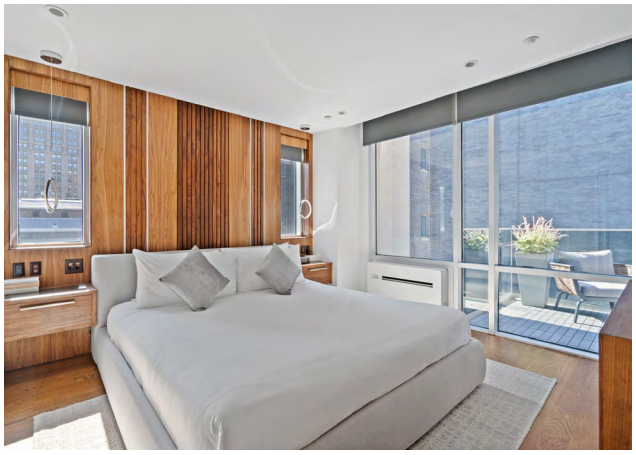
This was a smooth transformation that improved customer satisfaction ratings and made my job easier with almost no maintenance.

– Adnan Balic, Chief Engineer at The Gotham Hotel

Conclusion

The transformation at The Gotham Hotel exemplifies how Innova's heat pump solutions can resolve common issues with PTAC systems, leading to enhanced guest experiences, improved aesthetics, and significant operational efficiencies. The Gotham Hotel's partnership with Innova highlights a commitment to quality and innovation in boutique hospitality.









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Who is Innova

Overview

Beginnings

Italy is home to some of the oldest and most magnificent buildings—built long before air conditioning was invented. Over the past few decades, however, air conditioning has become a necessity. In 1994, dismayed by the sight of unattractive air conditioners ruining the exteriors of the beautiful buildings, Oreste Bottaro imagined an air conditioner that would not require an outdoor unit. After years of designing, engineering, and testing, the double duct system was ready for production.

This system was named double duct because one duct brought in outside air to cool down the condenser, and the other duct transported the hot air out of the building. This revolutionary design made air conditioners almost invisible and more efficient. The only visible signs on the building's facade are two small grilles. Fine hotels, residential and commercial facilities, and villas in 36 countries rely on these systems for cooling and heating.

One symbol with many meanings

The stylized butterfly logo represents rebirth and transformation, emerging from a chrysalis to fly free on the wings of innovation. The butterfly is the synthesis of the natural elements we measure ourselves by every day—the air, water, and land of Trentino, where we have our roots.

Additionally, the logo refers to an important historical icon: Leonardo da Vinci's Vitruvian Man. Man is the measure of all things. The synthesis of the circle and the square. The union of art and science.

These ideas represent what makes our company unique: the bold fusion of science and creativity.

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Global Footprint

Our products are available in 36 countries on five continents and are synonymous with innovation and the highest quality from Korea to Russia, Chile to China. Our global footprint means our products are used and tested in all types of environments and climates—and have proven to be reliable and sturdy all over the world. When the Colosseum in Rome needed discreet air conditioning with no outdoor unit, they chose our system. To watch some case studies, scan or click the QR code.

Ethos

Grow Through Innovation

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 by bringing together technical skills, creativity, technology, design, Italian passion, and a global vision to achieve the best energy efficiency and performance.



Commitment
We are committed to improving the well-being of people, wherever they are staying. Our commitment to the environment is to reduce consumption, increase efficiency, and promote sustainable development.

- **Experience**
  We are experts in our work and love to translate our experience into creating innovative and valuable solutions and transferring our skills to our partners.
- **Quality**
  We believe in the quality of reliable products that can thrill the customer, the quality of solutions built to last, and the quality of attentive service that focuses on solving problems.
- **Trust**
  We build trusting relationships with our customers, partners, and suppliers. We are a serious and solid company you can count on every day, no matter what.
- **Accountability**
  We take ownership of our mistakes and go above and beyond to make things right when things go wrong.

Trusted Partners

LM Development Partners · WT Whiting-Turner · RXR · AECOM · RELATED · TISHMAN SPEYER

Timeline



2004

The beginnings
Founded by Oreste Bottaro, a visionary creator of patented innovations, the company has always focused on designing and implementing advanced systems dedicated to climate comfort in every season.

2012

The turning point
With the arrival of Gianandrea Masserdotti (GAM), the company decided to build its commercial network in Italy and abroad, proposing its solutions both to distribution and industrial partners for international brand collaborations.

2014

Major growth
Foreign collaborations led to the company's expansion into over 30 countries with a growth path fueled by the continuous generation of new ideas and projects. The adoption of DC inverter technology for fan coils and the launch of HPAC 2.0, the air conditioner without an outdoor unit, drove much of the growth.

2015



Canada
Took its first major step into the North American market through Canada. In a remarkably short time, our innovative all-in-one heat pump solutions gained strong traction, quickly building brand recognition among engineers, developers, and HVAC professionals. This early success laid the foundation for Innova's continued expansion across North America and established the brand as a fresh alternative in the market.

2016

The big leap forward
Sensing the potential of the Controlled Mechanical Ventilation space, we developed our first ERV system. We moved into a new 200,000 ft² facility in Storo, Italy, and built a Research and Development Pavilion, where our team works on future innovations.

2018

The vision of the future
With the invaluable contribution of ideas from Hakira Nishikawa, a complete vision of the future took shape. We invested in the world of ERV with the acquisition of a company specializing in ERV and an artificial intelligence systems company.

2019



USA
After many years of planning, we opened our USA subsidiary, Ephoca, with plans to open a manufacturing plant and build systems in the United States.



Another revolution
Not satisfied with linear growth, the company decided to step on the accelerator by deeply renewing all the product lines. The award-winning STØNE was introduced with great fanfare and accolades.

New product launches
Recognizing the unique US market, we started to develop products specifically for the US. This includes a PTAC replacement called Nextac.

Product of the year winner
Our Nextac, next-gen PTAC, won the prestigious AHR product of the year award. Nextac aims to disrupt this status quo with this new high-efficiency and quality PTAC.

2020 | 2021 | 2022 | 2023 | 2024 | 2026

Preparing for tomorrow
The poor global economic situation in 2020 did not diminish our determination and ambition. At the end of 2020, we acquired a neighboring industrial complex, allowing for future expansion. We experienced explosive growth throughout 2021, doubling our staff and production. It was a fantastic year. We moved a manufacturing line into the new annex and tripled our warehouse space.

Panasonic partnership
After years in which we manufactured systems for Panasonic and collaborated closely with its team, Panasonic acquired a minority share in our company. This partnership prioritizes energy-efficient solutions and innovation, vital for our growth as we access Panasonic's global support.

Major milestone
Reached a major milestone in validating the performance and credibility of our AIO product line by securing a range of industry-leading certifications across multiple models, including AHRI, Energy Star, NEEP, and Passive House. These recognitions reflect our commitment to delivering highly efficient, all-in-one heat pump solutions that meet the rigorous standards required by engineers, developers, and sustainability programs across North America.

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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. For more information, visit innova-usa.com

Innova is constantly innovating and improving its products and reserves the right to modify product design and specifications without notice and without incurring any obligations.

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New York, NY 10019

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Storo (TN), 38089 Italy

Corporate HQ
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Cleveland, OH 44114

Tione Engineering Center
Via Fabbrica, 52
Tione di Trento (TN), 38079 Italy

Showroom & Training Center
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