

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

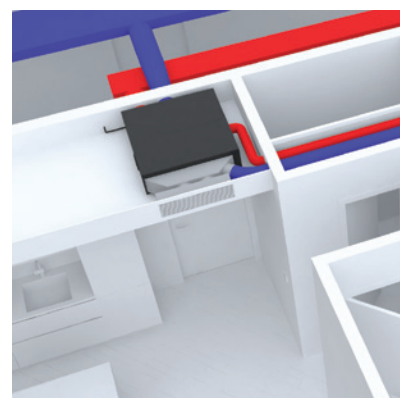
Installation



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	0.91	0.53	0.83	0.91
	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		13.85	-	-	15.3	-	-
Moisture removal		Pts/h (L/h)	1.8 (0.9)	2 (1.0)	2.2 (1.0)	1.8 (0.9)	2 (1.0)	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 (-17°C) ⁷	-5°F (-20°C) ⁸	47°F (8°C) ⁴	17°F (-8°C) ⁵	5°F (-15°C) ⁶	0°F (-17°C) ⁷	-5°F (-20°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 (2.6)	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)	3.3 (1.0)	3.5 (1.0)	3.3 (1.0)	2.8 (0.8)	2.5 (0.7)	3.3 (1.0)
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*		0.78	0.99	1.25	1.06	1.01	0.78	0.87	1.14	1.06	1.01
	Nominal		0.70	0.86	1.09	1.06	1.01	0.64	0.76	0.90	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	2.0	3.3	2.3	1.9	1.7	2.0
	HSPF2		9.2	-	-	-	-	9.2	-	-	-	-

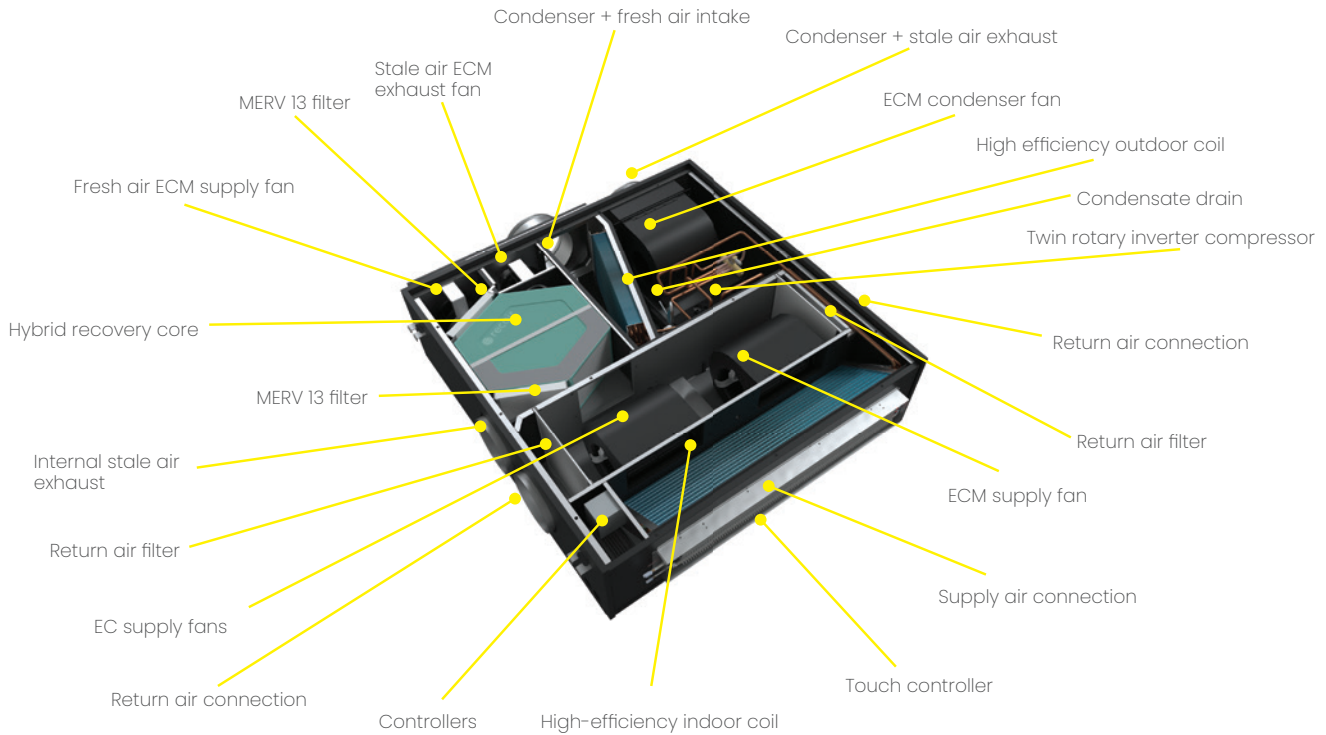
- 1 **95°F (35°C)** ID: 80°F(26.7°C), W.B. 67°F(19.4°C); OD: 95°F(35°C), W.B. 75°F(23.9°C)
 2 **105°F (41°C)** ID: 80°F(26.7°C), W.B. 67°F(19.4°C); OD: 105°F(40.6°C), W.B. 75°F(23.9°C)
 3 **115°F (46°C)** ID: 80°F(26.7°C), W.B. 67°F(19.4°C); OD: 115°F(46.1°C), W.B. 75°F(23.9°C)
 4 **47°F (8°C)** ID: 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 (-17°C)** ID: 70°F(21.1°C), W.B. 60°F(15.6°C); OD: 0°F(-17.8°C)
 8 **-5°F (-20°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).

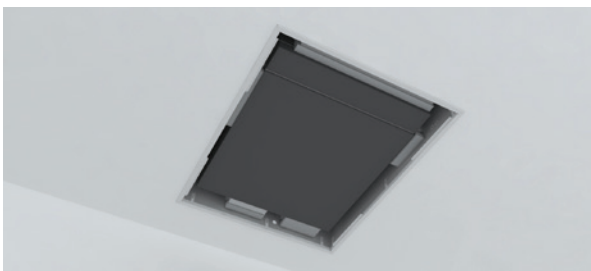
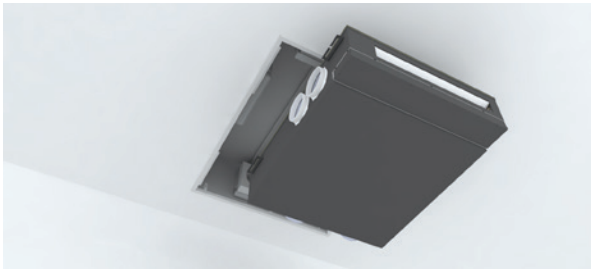
What's Inside



Rough-In for Ceiling Ducted

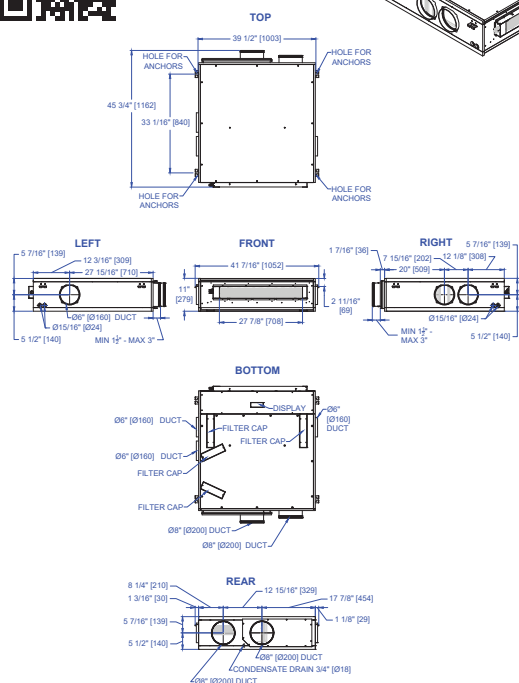
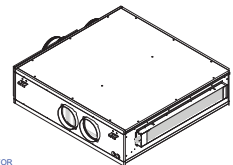
When ceiling ducted units are installed in ceilings, service access is often difficult.

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 29.1" W (99 mm H x 739 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		
Indoor	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 (140 m³/h)
Sensible	%	86.7	85.2	83.1
Latent		72.5	65.1	60.3
Efficiency of Core in Summer				
Sensible	%	71.1	69.4	68.1
Latent		56.2	54.5	51.2
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)

Electical Data: Heat Pump Only*		AHRI		Energy Star Certified	
		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		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	A	20.9	9.5	20.9	9.5
MCA		25	11	25	11
MOCP		35	15	35	15
Rec. Breaker Size		30	15	30	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 / 7.8 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	2,200 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 / 3.8 A	1,960 W / 7.5 A	3,000 W / 11.3 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	178 (80.7)
Gross weight	(kg)	190 (86.2)
Cabinet finish		Black covered with dark gray EPDM
Cabinet material		Steel