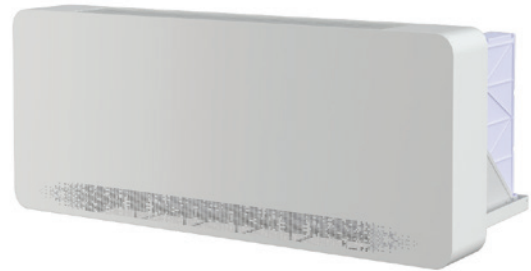


AIO NextGen PTHP

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).

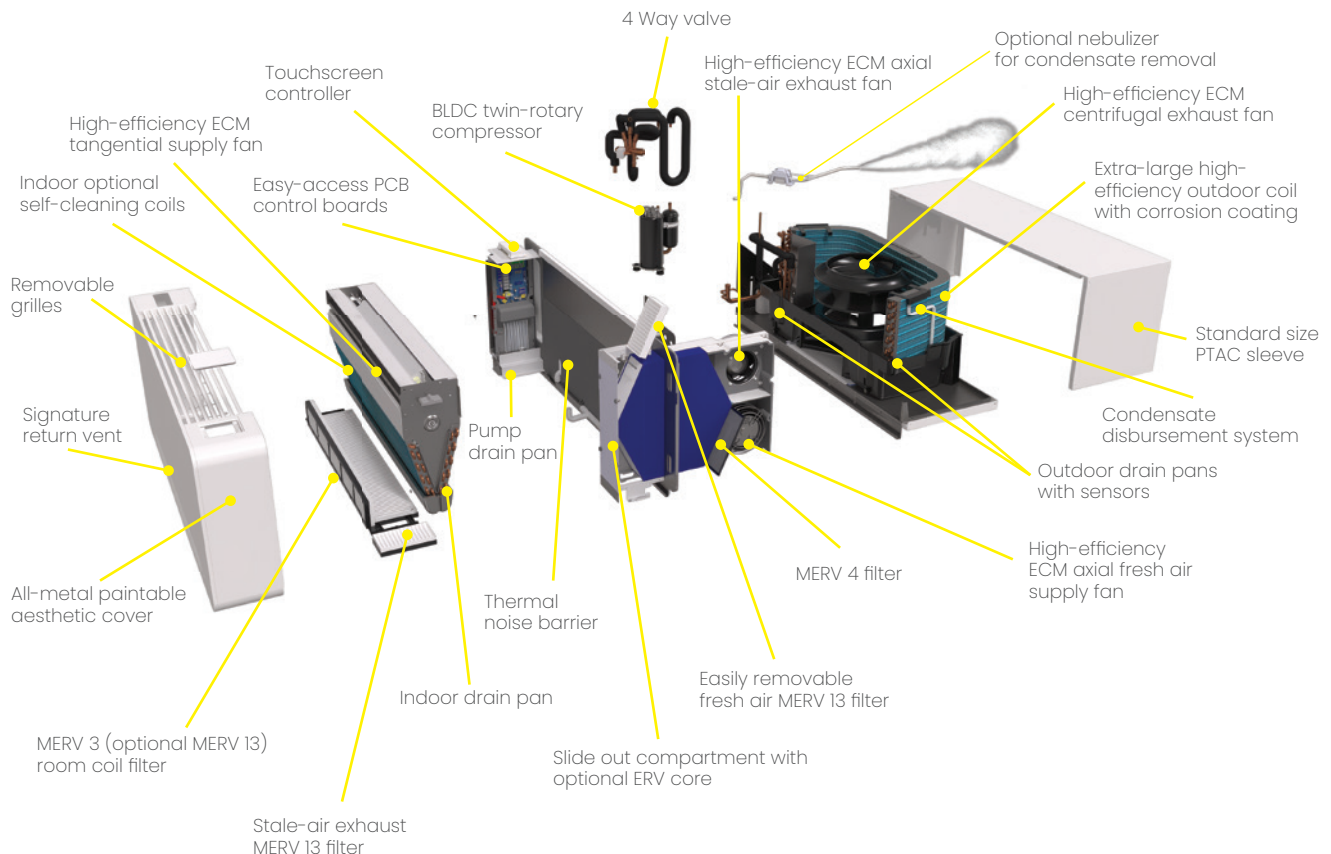
The result is efficient, reliable heating and cooling in a modernized in-room unit.



Key Differentiators

- 27 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

What's Inside



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 (4.4)	14.0 (4.1)	15.0 (4.4)	13.0 (3.8)	11.5 (3.4)
	Recommended*		12.5 (3.7)	10.4 (3.1)	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	1.9	2.0	1.72	1.57	1.35
	Recommended*		0.97	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	8.8	8.2	7.7
	Recommended		11.5	9.8	8.2	12	10.1	8.4
	AHRI Rated EER2		12	9.5	7.7	-	-	-
	AHRI (310/380) EER2		12	-	-	-	-	-
	Energy Star EER2		-	-	-	13	10.5	8.4
	SEER2 [†]		16	-	-	-	-	-
Moisture removal		Pts/h (L/h)	2.4 (1.1)	2.9 (1.4)	3.4 (1.6)	1.9 (0.9)	2.4 (1.4)	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 (-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)	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 (2.64)	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 (2.34)	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 (1.91)	8.5 (2.5)	8.5 (2.5)	6.5 (1.91)	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 (0.79)	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	0.7	0.87	1.19	1.12	1.31
	Rated		0.9	1.28	1.0	1.04	1.03	0.61	0.87	1.0	1.04	1.03
	Minimum		0.3	0.38	0.37	0.35	0.35	0.3	0.38	0.37	0.35	0.35
Efficiency	Maximum		3.2	2.3	2.1	2	1.9	3.6	2.6	2.12	2	1.9
	Recommended		3.6	2.5	2.12	2	1.9	3.9	2.7	2.15	2.04	1.9
	Rated		3.8	2.5	2.2	2.06	1.95	-	-	-	-	-
	AHRI (310/380) COP2		3.8	-	-	-	-	-	-	-	-	-
	Energy Star		-	-	-	-	-	4	2.7	2.2	2.06	1.95
	Minimum		4.14	2.3	2.3	2	1.8	4.14	2.3	2.3	2	1.8
	HSPF2 [†]		8	-	-	-	-	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)

* 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).

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)

† 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.

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
	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		
Indoor	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	78.3	72.8
Latent		58.1	55.5	48.5
Efficiency of Core in Summer				
Sensible	%	68.1	64.3	59.1
Latent		57.5	53.4	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		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		4.6	4.2	3.6	3.1	2.8	2.4
Max. Amps Cooling		9.9	8.9	7.7	9.1	8.3	7.2
Running Amps Heating		4.3	3.9	3.4	2.9	2.7	2.3
Max. Amps Heating	A	6.8	6.2	5.4	5.0	4.5	3.9
MCA		12	11	10	11	10	9
MOCP		15	15	15	15	15	15
Rec. Breaker Size		20	20	15	20	15	15

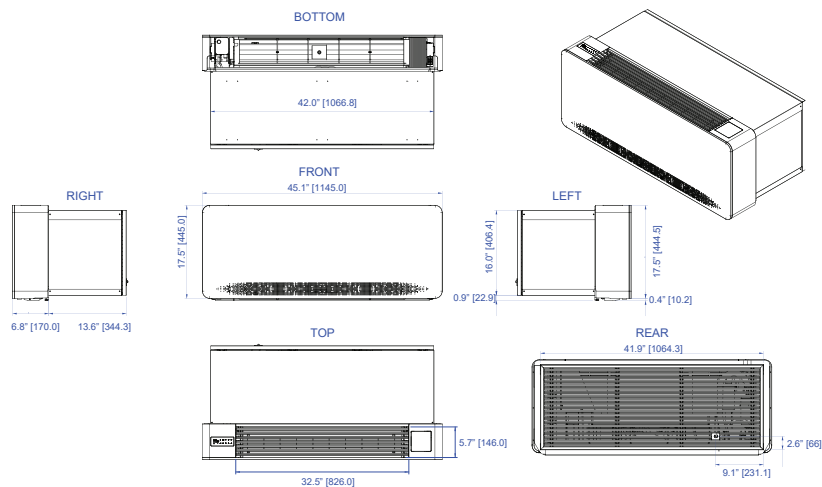
Post Heater Output and Current	
	1,800 W
208 V	1,472 W / 7.1 A
230 V	1,800 W / 7.8 A
265 V	2,390 W / 9 A

Electrical Connection			
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)

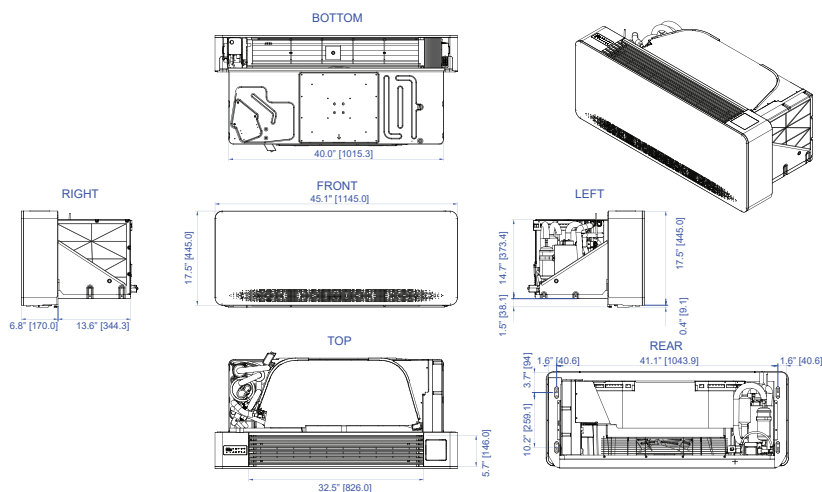
Electrical (General) - Motors			
Indoor ECM fan motor	Max Watts	W	65
	FLA	A	0.4
	Power	HP	0.07
Outdoor ECM fan motor	Max Watts	W	150
	FLA	A	1.3
	Power	HP	0.2
Fresh Air ERV fan motor	Max Watts	W	150
	FLA	A	0.8
	Power	HP	0.20
Stale Air ERV fan motor	Max Watts	W	190
	FLA	A	0.8
	Power	HP	0.26

Dimensions

With Sleeve



Without Sleeve



* for 208/230V units

** for 265/277V units