

EVO

High Efficiency Central Heat Pump System



Performance up to

 COOLING	Temperatures -15°C 5°F	SEER2 17.4
 HEATING	Temperatures -30°C -22°F	HSPF2 10

Installation Flexibility

We offer you 2 options to meet all your needs:

1

An installation with the EVO Air Handler to enjoy our complete EVO system

2

To reduce labor and equipment costs, you can install the EVO condenser in retrofit with a third-party indoor unit such as a preexisting or new furnace by adding our A-coil, for instance our Supreme electric furnace or our Chinook gas furnace.



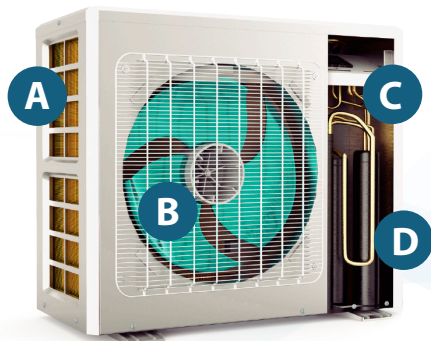
Specifications

- 35% energy savings achieved by advanced inverter technology
- The side-discharged condenser allows installation in confined spaces
- Can be matched with most brands of air handler and A-coil
- Compatible with most thermostats on the market

- Electrical heating belt for compressor
- Self-diagnostic
- Self-Adapt mode enables ability to analyze temperature and pressure change of the unit to adjust operation
- Universal compatibility with third party applications

A System Built To Last

EVO Condenser

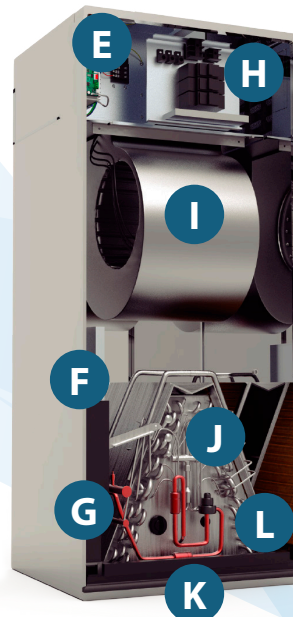


- A** Gold-Fin copper coil helps fight against corrosion in harsh environments. Thin design allows for installation in compact areas.
- B** Variable speed outdoor DC motor operates efficiently depending on requirements. Fan blade designs allows for quiet operation.
- C** Smart control board helps adjust output capacity allowing the unit to maintain temperature at set level and helps control humidity during summer months. Improves performance and comfort automatically.
- D** Inverter technology compressor with EEV valve helps to operate at high efficiency levels during heating mode. Can operate outside temperatures as low as -30°C (-22°F)

Outdoor Unit Dimensions: in (mm)

Models	W	H	D
EVD-24-O	37 1/4 (946)	31 7/8 (810)	16 1/8 (410)
EVD-30-O			
EVD-36-O	37 1/2 (952)	52 1/2 (1333)	16 11/32 (410)
EVD-48-O			
EVD-60-O			

EVO Air Handler



- E** Smart control board with easy access. Allows for quicker maintenance.
- F** Flare connection for easy access when soldering is not possible. Solder adapters included.
- G** Multi-Positional drain pan flexible for vertical or horizontal applications.
- H** Can accomodate electric heat with no modificaitons and easy access installation. See table below.
- I** DC Motor allows for quiet operation while performing at efficiency levels controlling humidity.
- J** Aluminum coil allows efficiency heat transfer, humidity removal and easy maintenance. The EEV valve helps to operate at high efficiency levels during cooling.
- K** Easy access filter-track.
- L** Integrated drain pan made from corrosion-resistant composite material to help eliminate standing water.

EVO Electric Auxiliary Heat Module

Models	Descriptions
EAH-05B-B	5 kW electric auxiliary heat module
EAH-10B-B	10 kW electric auxiliary heat module
EAH-15B-B	15 kW electric auxiliary heat module
EAH-20B-B	20 kW electric auxiliary heat module

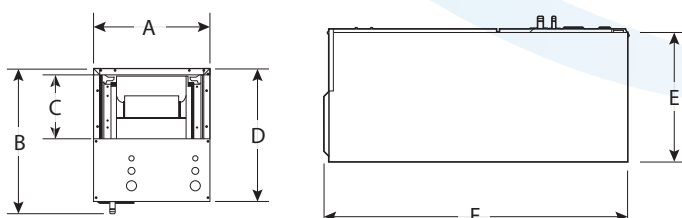
EVO with Air Handler

Product # ¹		Indoor Unit	EVD-24-I	EVD-30-I	EVD-36-I	EVD-48-I	EVD-60-I
		Outdoor Unit	EVD-24-O	EVD-30-O	EVD-36-O	EVD-48-O	EVD-60-O
Technical Performance							
Power Sulpply		V / Ph / HZ	230/208/1/60				
Cooling Capacity	Nominal	W (BTU/hr)	7038 (24000)	8792 (30000)	10557 (36000)	13783 (47000)	16129 (55000)
Heating Capacity	Nominal	W (BTU/hr)	7038 (24000)	9671 (33000)	11730 (40000)	14663 (50000)	17 302 (59000)
SEER2		-	17.4	16.2	16	15.6	15.3
HSPF2 (Region IV)		-	10	8.9	9.5	9.4	9.4
EER2		W/W	11.7	10	10	8.2	8.8
COP at 5°F (-15°C)		W/W	1.91	1.80	1.97	1.90	1.91
COP at 47°F (8,3°C)		W/W	3.35	3.30	3.40	3.16	3.42
AHRI number		-	210365432	210365433	210365434	210365435	210365436
Energy Star		-	✓	✓	✓	✓	✓
Indoor Unit							
Dehumidification		pt/hr (l/hr)	3.48 (1.98)	6.1 (3.49)	6.1 (3.49)	4.96 (8.72)	9.77 (5.55)
Air flow volume	T / H / M / L ²	cfm	824 / 759 / 694 / 629	1088 / 894 / 806 / 712	1188 / 1082 / 971 / 865	1471 / 1282 / 1094 / 906	1806 / 1582 / 1359 / 1135
Sound level	H / M / L	dB (A)	39 / 36 / 33	42 / 41 / 37	45 / 43 / 41	50 / 47 / 44	51 / 46 / 42
Fan motor RLA		A	3	3.5	4	6	7
MCOP		A	15	15	15	15	15
Net weight		lb (kg)	106 (48)	129 (59)	129 (59)	131 (59)	163 (74)
Outdoor Unit							
Air flow volume		cfm	3000	3000	4500	4412	4500
Sound level		dB (A)	62	60.5	64	64	63.5
Compressor power input		W	2085	2765	3565±3%	3565±3%	3770
MCA		A	20.5	23	30	40	40
MCOP		A	35	35	50	50	50
Compressor RLA		A	15	17.5	32	33	26.2
Refrigerant volume (R410A)		oz (g)	102 (2900)	134 (3799)	165.7 (4700)	169 (4800)	169 (4800)
Operating ambient temperature	Cooling	°C (°F)	-15 to 50 (5 to 122)				
	Heating	°C (°F)	-30 to 24 (-22 to 75)				
Net weight		lb (kg)	137 (62)	160 (72.5)	227 (103)	220 (100)	240 (109)
Connection Piping / Refrigerant							
Pre-charge length		ft (m)	25 (7.5)	25 (7.5)	25 (7.5)	25 (7.5)	25 (7.5)
Additional refrigerant charge		oz/ft (g/m)	0.69 (65)	0.69 (65)	0.69 (65)	0.69 (65)	0.69 (65)
Liquid pipe outer diameter		in	3/8	3/8	3/8	3/8	3/8
Gas pipe outer diameter		in	3/4	3/4	3/4	3/4	7/8
Maximum height between outdoor and indoor units		ft (m)	82 (25)	82 (25)	98 (30)	98 (30)	98 (30)
Maximum pipe length between outdoor and indoor units		ft (m)	164 (50)	164 (50)	213 (65)	213 (65)	213 (65)

¹ 1 indoor unit and 1 outdoor unit. Note that each unit is individually packaged.

² Fan Speeds: (T) Turbo / (H) High / (M) Medium / (L) Low.

Air Handler Dimensions



Model	A	B	C	D	E	F
EVD-24-I	17 1/2 (444.5)	23 (585)	10 1/4 (260)	21 (534)	21 (534)	45 (1143)
EVD-30-I	21 (534)	23 (585)	10 1/4 (260)	21 (534)	21 (534)	49 (1245)
EVD-36-I						
EVD-48-I						
EVD-60-I	22 7/8 (580)	23 (585)	10 1/4 (260)	21 (534)	24 1/2 (622)	53 (1346)

EVO with A Coil



Specifications

- Up to 16.8 SEER2
- Available in multiple sizes: 17.5", 21", 24.5"
- Horizontal or Vertical cased coil flexibility
- Can be matched with third-party furnace or blower
- 24V or 485 Communication Mode

Product # ¹		Indoor Unit	MAC24H1718E	MAC36H2124E		MAC48H2124E	MAC60H2428E
		Outdoor Unit	EVD-24-O	EVD-30-O	EVD-36-O	EVD-48-O	EVD-60-O
Power Supply		V / Ph / HZ	230 / 208 / 1 / 60				
Cooling Capacity	Nominal	W (BTU/hr)	7034 (24000)	8792 (30000)	10550 (36000)	13481 (46000)	15534 (53000)
Heating Capacity	Nominal	W (BTU/hr)	7327 (25000)	9671 (33000)	11430 (39000)	14947 (51000)	15826 (54000)
SEER2		-	16.5	15.5	15.2	14.3	14.5
HSPF2 (Region IV)		-	9.5	9.7	10	9	8.6
EER2		W/W	10.7	10.5	10	8.6	8.6
COP at 5°F (-15°C)		W/W	1.95	1.85	2.0	1.80	1.8
COP at 47°F (8.3°C)		W/W	3.32	3.50	3.10	3.04	3.08
AHRI number		-	213460480	213160482	213160483	213160484	213160485
Energy Star		-	✓	✓	✓	-	-
Indoor Unit							
Air flow volume	(Max)	CFM	800	1200	1200	1600	1800
Net weight		lb (kg)	43 (19.5)	67 (30)	67 (30)	67 (30)	87 (39)
Dimension	W × D × H	In (mm)	17½ × 21 × 18 (445 × 535 × 460)	21 × 21 × 24 (535 × 535 × 610)	21 × 21 × 24 (535 × 535 × 610)	21 × 21 × 24 (535 × 535 × 610)	24 ½ × 21 × 28 (622 × 533 × 711)
Outdoor Unit							
Air flow volume		cfm	3000	3000	4500	4500	4500
Sound level		dB (A)	63.5	63	61	64	62
Compressor power input		W	2085	2765	3565±3%	3565±3%	3770
MCA		A	20.5	23	40	40	40
MCOP		A	35	35	50	50	50
Refrigerant volume (R410A)		oz (kg)	102 (2900)	134 (3.8)	166 (4.7)	169 (4.8)	169 (4.8)
Operating ambient temperature	Cooling	°C (°F)	-15 to 50 (5 to 122)				
	Heating	°C (°F)	-30 to 24 (-22 to 75)				
Net weight		lb (kg)	137 (62)	160 (72.5)	227 (103)	220 (100)	240 (109)
Connection Piping / Refrigerant							
Pre-charge length		ft (m)	25 (7.5)	25 (7.5)	25 (7.5)	25 (7.5)	25 (7.5)
Additional refrigerant charge		oz/ft (g/m)	0.69 (65)	0.69 (65)	0.69 (65)	0.69 (65)	0.69 (65)
Liquid pipe outer diameter		in	3/8	3/8	3/8	3/8	3/8
Gas pipe outer diameter		in	3/4	3/4	3/4	3/4	7/8
Maximum height between outdoor and indoor units		ft (m)	66 (20)	82 (25)	98 (30)	98 (30)	98 (30)
Maximum pipe length between outdoor and indoor units		ft (m)	98 (30)	164 (50)	213 (65)	213 (65)	213 (65)

¹ 1 indoor unit and 1 outdoor unit. Note that each unit is individually packaged.

Authorized Retailer



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Specifications are subject to change without notice

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