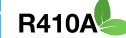


EVO

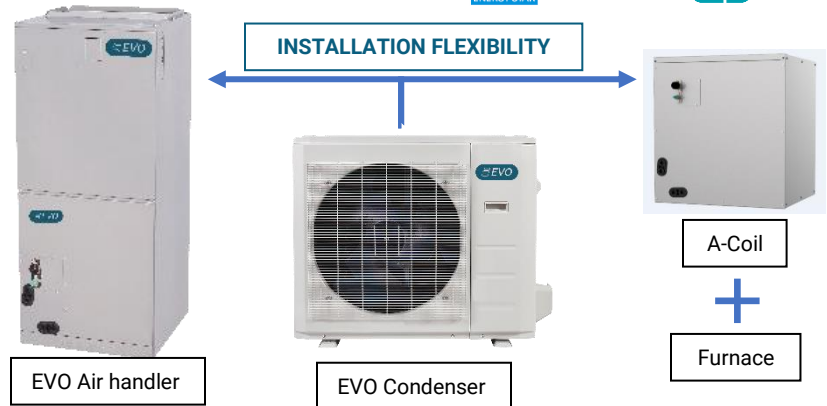
Central Heat Pump System



Performance up to

	Temperatures	SEER2
	-15°C 5°F	17.4

	Temperatures	HSPF2
	-30°C -22°F	10



Features

Operation mode

- Cooling, heating, dehumidifying, fan and auto.

Nominal capacity

- 24000, 30000, 36000, 48000, 60000 BTU/hr.

Voltage

- 230/208V, 60 Hz, 1-phase.

Outdoor unit

- DC motor.
- Variable speed rotary compressor (INVERTER), with overload protection.
- Electronic expansion valve for precise control of refrigerant flow.
- Condenser fins covered with a hydrophilic coating for improved corrosion resistance.
- Large diameter quiet axial-flow fan for more efficient heat exchange.
- Multi-hole pan with smart heater to prevent ice formation.
- Compressor blanket and preheating technology.

Indoor unit: Air handler

- Vertical or horizontal installation.
- Available with upflow or downflow.
- Washable filters.

Indoor unit: A-Coil

- Available in multiple sized: 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

Connection piping

- Minimum piping length of 10 ft. (3 m).
- Flared connections.

Control

- Wireless remote included.
- Wi-Fi wired wall controller included.
- 24V thermostat connection available.
- Set temperature: 16 to 30 °C (61 to 86 °F).
- Temperature display format: °C or °F.

Warranty

- 10-year basic warranty on parts and 10-year basic warranty on the compressor (labour not included).

Features and functions

 <p>Smart Pan Heater Prevents ice formation in the base pan of the outdoor unit.</p>	 <p>Auto-Clean Keeps the indoor unit dry to prevent mold growth.</p>
 <p>Compressor Blanket and Preheating Technology Keeps the oil inside the compressor warm and prevents it from mixing with the refrigerant.</p>	 <p>Self-Diagnosis A microcomputer monitors the system and turns the unit off if abnormal operation is encountered. An error code will be displayed on the indoor unit to facilitate maintenance.</p>
 <p>Anti-Corrosion Fin Coating Condenser and evaporator fins are covered with a hydrophilic coating for greater corrosion resistance – a clear advantage for people living in coastal regions.</p>	 <p>Turbo Mode The unit operates at super high speed to achieve quick cooling or heating.</p>
 <p>Refrigerant Leakage Detection The indoor unit will display "EC" when the outdoor unit detects refrigerant leakage.</p>	 <p>Up & Down Swing Can be used to select oscillating angles for the vertical louvres. Choose a fixed position or use the auto swing mode to swing the louvres up and down in all positions.</p>
 <p>Smart Defrosting Provides greater comfort and energy savings by eliminating unnecessary defrost cycles.</p>	 <p>Timer Allows you to program the time you want the unit to start and stop over a 24-hour period.</p>
 <p>Smart Preheating The system delays turning on the fan in heating mode to avoid blowing cold air out at startup.</p>	 <p>Sleep Mode This function can be used to gradually increase or decrease room temperature, so you can save energy without affecting your sleep.</p>
 <p>Auto Restart In case of power failure, user selection and system parameters are stored in non-volatile memory. The system will automatically return to the last operating mode when power resumes.</p>	 <p>Silence Function The unit will operate at low frequency and the fan at the lowest speed to reduce noise level.</p>
 <p>Freeze Protection For extended absences, the temperature setpoint can be lowered to 8 °C (46 °F) in heating mode to prevent freezing.</p>	 <p>Follow Me With this function, the room temperature is read from the remote control, not from the indoor unit. This guarantees optimal comfort because the remote control is usually closer to you.</p>

EVO WITH AIR HANDLER

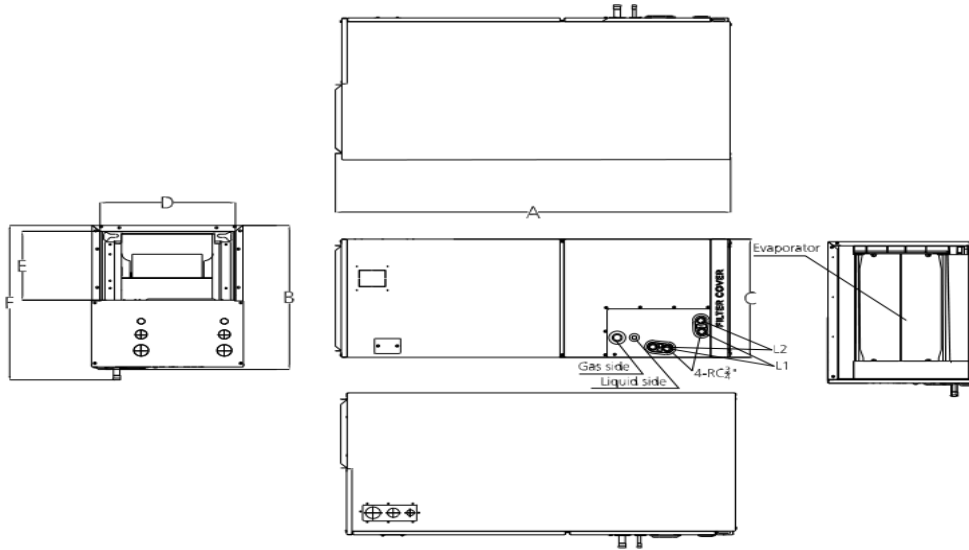
Product # ¹	Indoor Unit		EVD-24-I EVD-24-O	EVD-30-I EVD-30-O	EVD-36-I EVD-36-O	EVD-48-I EVD-48-O	EVD-60-I EVD-60-O
Qty	Outdoor Unit						
TECHNICAL PERFORMANCE							
Power supply		V / Ph / Hz	230/208 / 1 / 60				
Cooling capacity	Nominal	W (BTU/hr)	7038 (24000)	8792 (30000)	10557 (36000)	13783 (47000)	16129 (55000)
	Min. – max.	W (BTU/hr)	1877 - 7918 (6400 - 27000)	3047 - 9847 (10400-33600)	3812 - 13900 (13000 - 47400)	4399 - 14076 (15000 - 48000)	4106 - 16422 (14000 - 56000)
Heating capacity	Nominal	W (BTU/hr)	7038 (24000)	9671 (33000)	11730 (40000)	14663 (50000)	17302 (59000)
	Min. – max.	W (BTU/hr)	2962 - 9091 (10100 - 31000)	3370 - 10844 (11500-37000)	3226 - 16774 (11000 - 57200)	3226 - 16129 (11000 - 55000)	3930 - 20235 (13400 - 69000)
SEER2	-		17.4	16.2	16	15.6	15.3
HSPF2	-		10	8.9	9.5	9.4	9.4
EER2		W/W	11.7	10	10	8.2	8.8
COP		W/W	3.35	3.30	3.36	3.15	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 / L²	CFM	824 / 759 / 694 / 629	1088 / 894 / 806 / 712	1188 / 1082 / 971 / 865	1471 / 1282 / 1094 / 906	1806 / 1582 / 1359 / 1135
	H / M / L²	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
External Static Pressure (ESP)	Nominal	inH2O	0.10	0.15	0.15	0.2	0.2
	Range	inH2O	0 - 0.8	0 - 0.8	0 - 0.8	0 - 0.8	0 - 0.8
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	16.5	32	33	26.2
Fan motor power output		W	120	120	85	85	85
Fan motor RLA		A	1.35	1.35	1.2	1.2	1.2
Refrigerant volume (R410A)		oz (kg)	102 (2.9)	134 (3.8)	165.7 (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. in. (m)	82 (25)	82 (25)	98 (30)	98 (30)	98 (30)
Maximum pipe length between outdoor and indoor units		ft. in. (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.

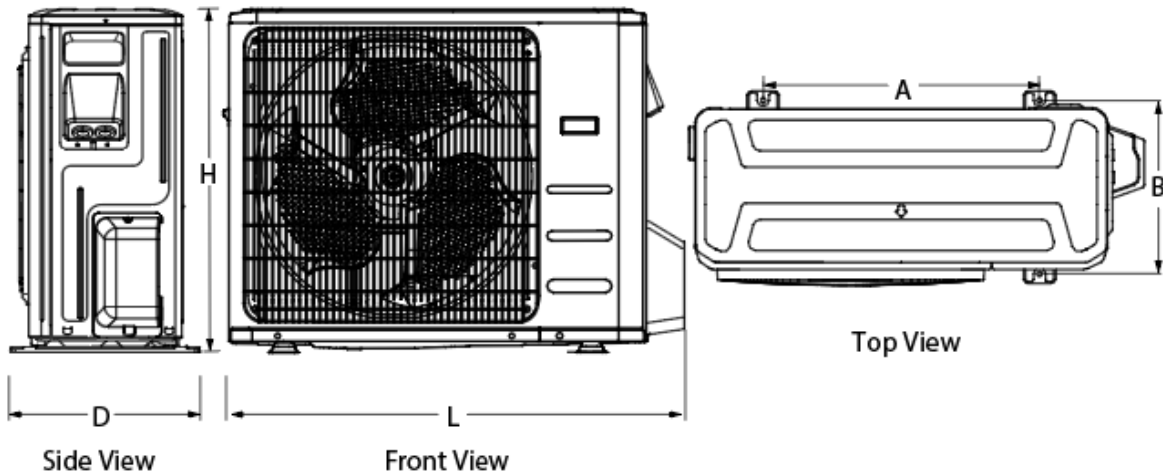
Note: Optional auxiliary heater. Consult your certified technician for the MCA and MOP values required for the use of an electric auxiliary heater.

Indoor Unit: Air Handler



Indoor Unit	A		B		C		D		E		F	
	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
EVD-24-I	45	1143	21	534	17 1/2	445	15 3/4	400	10 1/4	260	23	585
EVD-30-I EVD-36-I EVD-48-I	49	1245	21	534	21	534	19 5/16	490	10 1/4	260	23	585
EVD-60-I	53	1346	21	534	24 1/2	622	22 7/8	580	10 1/4	260	23	585

Outdoor Unit



Outdoor Unit	L		H		D		A		B	
	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
EVD-24-O EVD-30-O	40 1/2	1030	32	810	16 1/8	410	26 1/2	673	15 7/8	403
EVD-36-O EVD-48-O EVD-60-O	41 1/4	1045	52 1/2	1333	18	457	25	634	15 7/8	403

EVO WITH A-COIL

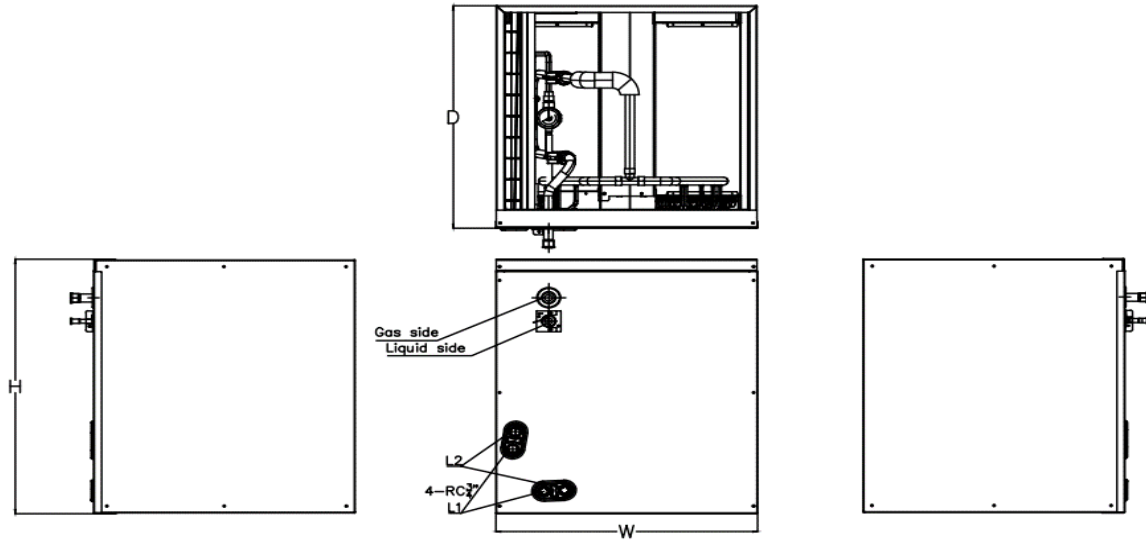
Product # ¹	Indoor Unit		MAC24H1718E	MAC36H2124E		MAC48H2124E	MAC60H2428E
	Outdoor Unit		EVD-24-O	EVD-30-O	EVD-36-O	EVD-48-O	EVD-60-O
Qty							
TECHNICAL PERFORMANCE							
Power supply		V / Ph / Hz	230/208 / 1 / 60				
Cooling capacity	Nominal	W (BTU/hr)	7034 (24000)	8792 (30000)	10550 (36000)	13481 (46000)	15534 (53000)
	Min. – max.	W (BTU/hr)	2931 - 8323 (10000 - 28400)	2901 - 10257 (9900 - 35000)	3429 - 11723 (11700 - 40000)	3605 - 13774 (12300 - 47000)	3927 - 15826 (13400 - 54000)
Heating capacity	Nominal	W (BTU/hr)	7327 (25000)	9671 (33000)	11430 (39000)	14947 (51000)	16119 (55000)
	Min. – max.	W (BTU/hr)	2813 - 9789 (9600 - 33400)	2638 - 10844 (9000 - 37000)	2696 - 14654 (9200 - 50000)	4396 - 17291 (15000 - 59000)	3165 - 17584 (10800 - 60000)
SEER2		-	16.1	15.5	14.8	14.3	14.5
HSPF2		-	9.5	9.7	10	9	8.6
EER2		W/W	10.7	10.5	9.8	8.6	8.6
COP		W/W	1.95	1.85	2.0	1.80	1.8
AHRI number		-	213460480	213160482	213160483	213160484	213160485
Energy Star		-	✓	✓	✓	-	-
INDOOR UNIT							
Internal refrigerant Volume (IRV)		In ³	58.3	106.9	106.9	158	190
Air flow volume	(Max)	SCFM	720	960	960	1015	1100
Pressure Drop		Pa	51.3	65.1	65.1	70	72
Net weight		lb (kg)	43 (19.5)	67 (30)	67 (30)	67 (30)	87 (39)
Dimension	W x D x H	In (mm)	17½ x 21 x 18 (445 x 535 x 460)	21 x 21 x 24 (535 x 535 x 610)	21 x 21 x 24 (535 x 535 x 610)	21 x 21 x 24 (535 x 535 x 610)	24 ½ x 21 x 28 (622 x 533 x 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
Compressor RLA		A	15	16.5	32	33	26.2
Fan motor power input		W	150	150	126	126	126
Fan motor RLA		A	1.35	1.35	1.20	1.20	1.20
Refrigerant volume (R410A)		oz (kg)	102 (2.9)	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. in. (m)	66 (20)	82 (25)	98 (30)	98 (30)	98 (30)
Maximum pipe length between outdoor and indoor units		ft. in. (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.

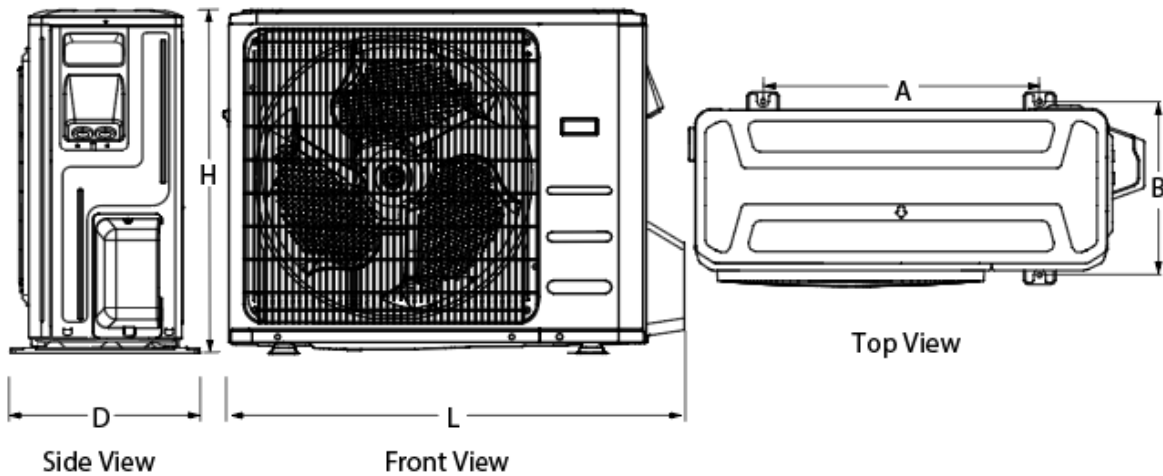
² Fan Speeds: (T) Turbo / (H) High / (M) Medium / (L) Low.

Note: Optional auxiliary heater. Consult your certified technician for the MCA and MOP values required for the use of an electric auxiliary heater.

Indoor Unit: A-Coil



Indoor Unit	W		D		H		L1	L2
	in.	mm	in.	mm	in.	mm		
MAC24H1718E	17 1/2	445	21	533	18	457	Main drain hole	Overflow drain hole
MAC36H2124E	21	533	21	533	24	609		
MAC48H2124E	24 1/2	622	21	533	28	711		



Outdoor Unit	L		H		D		A		B	
	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
EVD-24-O	40 1/2	1030	32	810	16 1/8	410	26 1/2	673	15 7/8	403
EVD-30-O										
EVD-36-O	41 1/4	1045	52 1/2	1333	18	457	25	634	15 7/8	403
EVD-48-O										
EVD-60-O										

Options

Product # Kit	Description	Qty
EAH-05B-UL	5kW electric auxiliary heat module	
EAH-10B-UL	10KW electric auxiliary heat module	
EAH-15B-UL	15kW electric auxiliary heat module	
EAH-20B-UL	20kW electric auxiliary heat module	

Specifications may change without prior notice

Project:	Approval Information
Consultant Engineer:	
Electrical Contractor:	
Distributor:	
Date:	
Contact at manufacturer:	
Comments:	