

Series

M4+ Multi Ductless Multizone Heat Pump



Performance up to



Cooling



Heating

25 SEER2
in cooling

Up to

11 HSPF2
in heating

Features

Operation mode Nominal capacity Voltage Indoor unit

Outdoor unit

Connection piping

Control

Warranty

Application

- Cooling, heating, dehumidifying, fan and auto.
- 18000, 27000, 36000, 48000, 55000 BTU/hr.
- 230/208V, 60 Hz, 1-phase.
- A2L leak detection sensor, included.
- Evaporator fins covered with hydrophilic coating for improved corrosion resistance.
- Washable filters.
- Variable speed rotary compressor (INVERTER), with PCB control protection.
- Electronic expansion valve for precise control of refrigerant flow.
- Condenser fins covered with a hydrophilic coating for improved corrosion resistance.
- Quiet axial-flow fan.
- Multi-hole pan with smart heater to prevent ice formation.
- Compressor blanket and preheating technology.
- Installation on aluminum wall bracket or ground stand (optional).
- Minimum piping length of 10 ft. (3 m).
- Flared connections.
- Wireless remote included with wall bracket.
- Set temperature: 16 to 32 °C (61 to 90 °F).
- Temperature display format: °C or °F.
- Wi-Fi optional.
- 10-year basic warranty on parts and 10-year basic warranty on the compressor (labor not included).
- Dining room-kitchen, living room, family room, commercial building, office building, condo, restaurant.

Features and functions¹

	Smart Pan Heater Prevents ice formation in the base pan of the outdoor unit.		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.
	Compressor Blanket and Preheating Technology Keep the oil inside the compressor warm, thereby preventing the refrigerant fluid from mixing with the compressor oil.		Turbo Mode The unit operates at super high speed to achieve quick cooling or heating.
	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.		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.
	Refrigerant Leakage Detection The indoor unit will display “EC” when the outdoor unit detects refrigerant leakage.		Timer Allows you to program the time you want the unit to start and stop over a 24-hour period.
	Smart Defrosting Provides greater comfort and energy savings by eliminating unnecessary defrost cycles.		Sleep Mode This function can be used to gradually increase or decrease room temperature, so you can save energy without affecting your sleep.
	Smart Preheating The system delays turning on the fan in heating mode to avoid blowing cold air out at startup.		Silence Function The unit will operate at low frequency and the fan at the lowest speed to reduce noise level.
	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.		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.
	Freeze Protection For extended absences, the temperature setpoint can be lowered to 8 °C (46 °F) in heating mode to prevent freezing.		Wi-Fi Device that connects the heat pump system to the home's Internet network for remote control.
	Auto-Clean Keeps the indoor unit dry to prevent mold growth.		A2L A2L safety sensor.

¹ Features and functions may vary depending on the choice of indoor unit.

Models – Outdoor Unit

Product # ¹			MOM18H2BH3A	MOM27H2BH4A	MOM36H2BH5A	MOM48H2BH6A	MOM60H2BH6A
Qty							
Technical Performance							
Voltage		Volts	208/230V	208/230V	208/230V	208/230V	208/230V
Refrigerant type		-	R454B	R454B	R454B	R454B	R454B
Cooling capacity	Nominal	W (BTU/hr)	5568 (19000)	7912 (27000)	10550 (36000)	13774 (47000)	14946 (51000)
	Min. – max.	W (BTU/hr)	1581 - 8206 (5400 - 28000)	2110 - 10862 (7200 - 37000)	2638 - 12527 (9000 - 43000)	3517 - 16665 (12000 - 57000)	5568 - 17223 (19000 - 59000)
Heating capacity	Nominal	W (BTU/hr)	5861 (20000)	7913 (27000)	10551 (36000)	14360 (49000)	16119 (55000)
	Min. – max.	W (BTU/hr)	1672 - 7913 (5700 - 27000)	2465 - 10551 (8400 - 36000)	3806 - 14360 (13000 - 49000)	5861 - 16665 (20000 - 57000)	8190 - 17223 (28000 - 59000)
Used cooling power input	Nominal	W	1265	2125	2750	3917	4250
	Min. – max.	W	400 - 2250	500 - 3500	600 - 4000	800 - 5400	1200 - 7400
Used heating power input	Nominal	W	1465	2082	2638	3881	4605
	Min. – max.	W	350 - 2300	500 - 3400	600 - 3750	800 - 5200	1200 - 7400
Cooling rated current		A	5.6	9.5	12	17.3	18.5
Heating rated current		A	6.5	9.1	11.5	17.3	20.1
MCA		A	17.5	30	37	37	39.5
Max. over-current protection (MOCP)		A	20	35	40	40	40
SEER2		-	25	23	23	23	22.2
HSPF2 IV		-	10.4	10.5	10.7	11	10.5
EER2		BTU/W	15	12.5	13	12	12
COP		W/W	4	3.8	4	3.7	3.5
AHRI number		-	215725516	215725519	215725522	215725525	215835702
ENERGY STAR		-	✓	✓	✓	✓	✓
Outdoor Unit							
Air flow volume		cfm	2130.7	2148.4	3037.2	4502.8	4502.8
Sound level		dB (A)	61.5	61	65	65	65
Compressor power input		W	2045	2765	3265	3430	3430
Compressor RLA		A	9.2	17	20.5	27	28
Fan motor power output		W	120	120	250	85	85
Fan motor RLA		A	1.2	1.3	2.6	2.5	2.5
Refrigerant volume (R454B)		oz (g)	78.31 (2220)	120.63 (3418)	134.04 (3800)	151.68 (4294)	151.68 (4294)
Net weight		lb (kg)	137 (62.3)	168 (76.4)	212 (96.1)	246 (112)	246 (112)
Operating ambient temperature	Cooling	°C (°F)	-30 to 50 (-22 to 122)				
	Heating	°C (°F)	-30 to 24 (-22 to 75)				
Connection Piping/Refrigerant							
Pre-charge length		ft. (m)	24.6 (7.5)	24.6 (7.5)	24.6 (7.5)	24.6 (7.5)	24.6 (7.5)
Additional refrigerant charge		oz/ft. (g/m)	0.16 (15)	0.16 (15)	0.16 (15)	0.16 (15)	0.16 (15)
Liquid pipe outer diameter		in.	3 x 1/4	4 x 1/4	5 x 1/4	6 x 1/4	6 x 1/4
Gas pipe outer diameter		in.	3 x 3/8	3 x 3/8 + 1 x 1/2	3 x 3/8 + 2 x 1/2	4 x 3/8 + 2 x 1/2	4 x 3/8 + 2 x 1/2
Maximum height difference		ft. (m)	49.2 (15)	49.2 (15)	49.2 (15)	49.2 (15)	49.2 (15)
Maximum total length		ft. (m)	196.8 (60)	262.4 (80)	262.4 (80)	262.4 (80)	262.4 (80)

¹ Each unit is individually packaged.

Models – Indoor Unit

Product # ¹			MHW09H2BHRB	MHW12H2BHRB	MHW18H2BHRB	MHW24H2BHRB
Qty						
Dehumidification		pt/hr (l/hr)	1.9 (0.9)	2.54 (1.2)	3.17 (1.5)	4.65 (2.2)
Air flow volume	UH / H / M / L	cfm	325 / 230 / 180	325 / 230 / 180	500 / 360 / 295	625 / 415 / 320
Sound level	UH / H / M / L	dB (A)	43 / 31 / 18	43 / 31 / 18	45 / 39 / 28	43 / 39 / 21
Fan motor power output		W	20	20	30	58
Fan motor RLA		A	0.5	0.5	0.8	1.3
Net weight		lb (kg)	23 (10.6)	23 (10.6)	27(12.4)	44 (19.8)
Liquid pipe outer diameter		in.	1/4	1/4	1/4	3/8
Gas pipe outer diameter		in.	3/8	3/8	1/2	5/8

Models - Ceiling Cassette

Product # ¹ – Ceiling Cassette			MCS09H2BHRA	MCS12H2BHRA	MCS18H2BHRA	MCS24H2BHRA
Product # ¹ – Grille			MCSPA	MCSPA	MCSPA	MCSPAB
Qty						
Cooling capacity	Nominal	W (BTU/hr)	2638 (9000)	3517 (12000)	4689 (16000)	7000 (24000)
Heating capacity	Nominal	W (BTU/hr)	2931 (10000)	3517 (12000)	5568 (19000)	7327 (25000)
Dehumidification		pt/hr (l/hr)	1.19	1.96	2.71	3.19
Air flow volume	T / H / M / L / S	cfm	353/312/265/183	418/365/306/194	447/389/318/194	765/706/636/547
Sound level	T / H / M / L / S	dB (A)	43/40/37/26	46/42/39/27	48/44/41/29	46/43/34/30
Net weight		lb (kg)	35.27 (16)	35.27 (16)	35.27 (16)	47.18 (21.4)
Liquid pipe outer diameter		in.	1/4	1/4	1/4	3/8
Gas pipe outer diameter		in.	3/8	3/8	1/2	5/8

Models – Air Handler

Product # ¹			MAH18H2MHWA	MAH24H2MHWA	MAH30H2MHWA	MAH36H2MHWA
Qty						
Cooling/Heating capacity		BTU/h	18000 / 18000	24000 / 25000	30000 / 30000	36000 / 37000
Air flow volume	H / M / L	cfm	618/530/489	824/695/630	989/806/712	1189/971/865
Sound level	H / M / L	dB (A)	43 / 31 / 18	43 / 31 / 18	45 / 39 / 28	43 / 39 / 21
Power		V / Hz / f	208-230V~,60Hz,1P	208-230V~,60Hz,1P	208-230V~,60Hz,1P	208-230V~,60Hz,1P
Net Dimension (WxDxH)		in.	21 x 17 1/2 x 45	21 x 17 1/2 x 45	21 x 21 x 49	21 x 21 x 49
Net weight		lb (kg)	23 (10.6)	23 (10.6)	27(12.4)	44 (19.8)
Liquid pipe outer diameter		in.	3/8	3/8	3/8	3/8
Gas pipe outer diameter		in.	3/4	3/4	3/4	3/4

Models – Ducted High static Fan Coil

Product # ¹			MDH09H2MHWA	MDH12H2MHWA	MDH18H2MHWA	MDH24H2MHWA
Qty						
Cooling capacity	Nominal	W (BTU/hr)	2638 (9000)	3517 (12000)	5275 (18000)	7034 (24000)
Heating capacity	Nominal	W (BTU/hr)	2901 (10000)	3517 (12000)	5275 (18000)	7325 (25000)
Dehumidification		pt/hr (l/hr)	1.46	2.94	2.94	4.29
Air flow volume	H / M / L / S	cfm	290 / 231 / 201 / 122	350 / 256 / 216 / 135	618 / 530 / 441 / --	706 / 618 / 500 / --
Sound level	H / M / L / S	dB (A)	31 / 30 / 29 / 26	33 / 32 / 31 / 26	37 / 35 / 33 / 28	40 / 38 / 35 / 30
Net weight		lb (kg)	64 (29)	64 (29)	80 (36.3)	80.5 (36.5)
Liquid pipe outer diameter		in.	1/4	1/4	1/4	3/8
Gas pipe outer diameter		in.	3/8	3/8	1/2	5/8

¹ Each unit is individually packaged.

Models – Low profile Fan coil

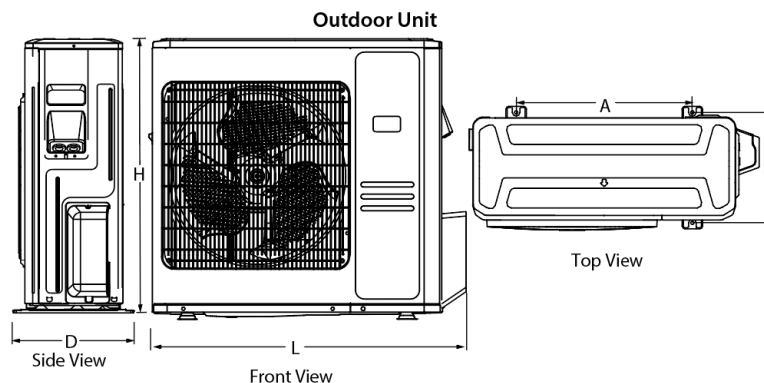
			MDL09H2MHWA	MDL12H2MHWA	MDL18H2MHWA
Qty					
Cooling capacity	Nominal	W (BTU/hr)	2638 (9000)	3250 (11500)	5000 (17000)
Heating capacity	Nominal	W (BTU/hr)	2901 (10000)	3517 (12000)	5860 (20000)
Indoor Static Pressure Range		in.w.g	0-0.4	0-0.4	0-0.4
Air flow volume	T / H / M / L	cfm	324/265/206/147	400/323/265/177	600/559/500/441
Sound level	T / H / M / L	dB (A)	30 / 29 / 28 / 26	33 / 31 / 29 / 26	36 / 34 / 32 / 28
Net weight		lb (kg)	40 (18)	40 (18)	55 (25)

Models – One-way cassette

Product #1			MCO09H2BHRB	MCO18H2BHRB
Qty				
Cooling/Heating capacity		BTU/h	9000 / 9000	18000 / 18000
Air flow volume	H / M / L	cfm	315 / 285 / 250	355 / 300 / 210
Sound level	H / M / L	dB (A)	38 / 34 / 24	44 / 41 / 29
Power		V / Hz / f	208-230V~,60Hz,1P	208-230V~,60Hz,1P
Net Dimension (WxDxH)		in.	50 ¼ x 13 ¼ x 9	50 ¼ x 13 ¼ x 9
Net weight		lb (kg)	45 (20.4)	45 (20.4)

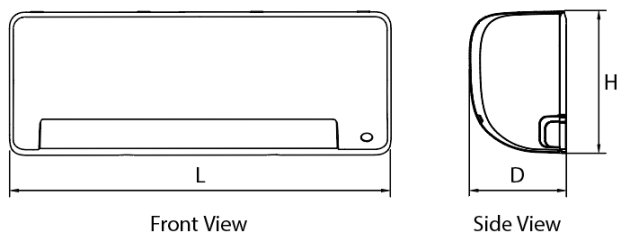
Models - Console

Product #1			MCW12H2MHWA	MCW16H2BHRB
Qty				
Cooling/Heating capacity		BTU/h	11000 / 12000	17000 / 16000
Air flow volume	H / M / L	cfm	380 / 325 / 190	445 / 385 / 325
Sound level	H / M / L	dB (A)	39 / 35 / 30	42 / 39 / 29
Power		V / Hz / f	208-230V~,60Hz,1P	208-230V~,60Hz,1P
Net Dimension (WxDxH)		in.	31 ½ x 8 x 24 ½	31 ½ x 8 x 24 ½
Net weight		lb (kg)	33 (15)	33 (15)



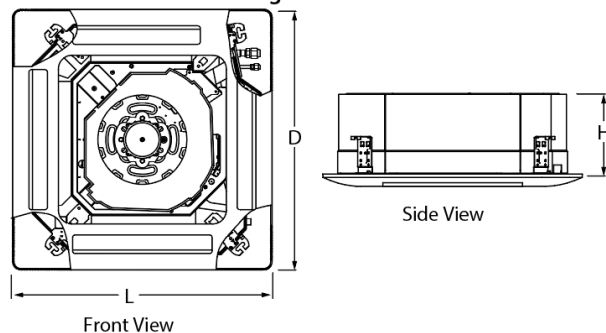
Outdoor Unit	L		H		D		A		B	
	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
MOM18H2BH3A MOM27H2BH4A	40 ¾	1034	31 7/8	810	17 7/8	455	26 ½	673	15 7/8	403
MOM36H2BH5A	42 15/16	1090	38 3/8	975	17 3/8	440	24 ¼	616	15 5/8	397
MOM48H2BH6A MOM60H2BH6A	41 ¾	1060	52 1/2	1333	17 5/8	448	25	634	15 15/16	405

Indoor Unit



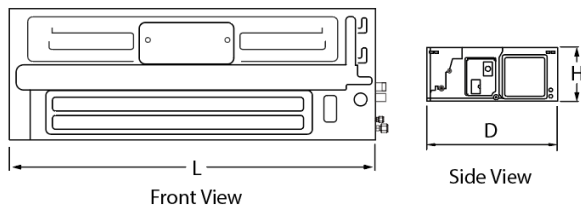
Indoor Unit	L		H		D	
	in.	mm	in.	mm	in.	mm
MHW09H2BHRB MHW12H2BHRB	33 3/8	848	11 3/4	300	9 3/16	233
MHW18H2BHRB	40	1017	12 1/2	319	9 3/4	247
MHW24H2BHRB	46 7/8	1190	14 9/16	370	11 3/16	284

Ceiling Cassette



Ceiling Cassette	L		H		D	
	in.	mm	in.	mm	in.	mm
MCS09H2BHRA MCS12H2BHRA MCS18H2BHRA	22 7/16	570	9 10/16	244	22 7/16	570
MCS24H2BHRA	32 11/16	830	8 1/16	205	32 11/16	830

Ducted Fan Coil



Ducted Fan Coil	L		H		D	
	in.	mm	in.	mm	in.	mm
MDH09H2MHWB MDH12H2MHWB	27 9/16	700	9 10/16	244	29 1/2	750
MDH18H2MHWB MDH24H2MHWB	39 6/16	1000	9 10/16	244	29 1/2	750

Specifications may change without prior notice

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