

Job Name	Location	Date
Purchaser	Engineer	
Submitted To	For ☐ Reference ☐ Approval ☐ Construction	
Unit Designation	Schedule No.	

Submittal: MBR42HPJ1OE

42,000 BTU/H MULTI-ZONE Wall Mounted Heat- Pump System

		OPERATIONAL CHARACTERISTICS • Up to 4 Indoor Units (4-Port) • EnergyStar Rated • Inverter Technology • Quiet Operation - Both Indoor & Outdoor • Anti-Corrosion Coil Protection • Intelligent Defrost • Auto Restart on Power Outages • Mult-point Diagnostics																																				
Indoor System Non-Ducted Indoor Match with BRS Indoor Units Only <table border="1"> <tr> <td>Rated Cooling Capacity</td> <td>39,000 BTUH</td> </tr> <tr> <td>Cooling Capacity (min-max)</td> <td>8,871-40,944 BTUH</td> </tr> <tr> <td>Rated Heating Capacity</td> <td>45,000 BTUH</td> </tr> <tr> <td>Heating Capacity (min-max)</td> <td>8,871-46,062 BTUH</td> </tr> <tr> <td>SEER/EER</td> <td>21/10.4</td> </tr> <tr> <td>HSPF/COP</td> <td>10.2/3.6</td> </tr> </table>		Rated Cooling Capacity	39,000 BTUH	Cooling Capacity (min-max)	8,871-40,944 BTUH	Rated Heating Capacity	45,000 BTUH	Heating Capacity (min-max)	8,871-46,062 BTUH	SEER/EER	21/10.4	HSPF/COP	10.2/3.6																									
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SYSTEM FEATURES

Inverter / CompressorType	Inverter Rotary
Ultra Low Frequency Torque Control	YES
Power Factor Correction	YES
Refrigerant Type	R410A
Basepan With Electric Heater	YES
Compressor With Electric Heater	YES
Condenser Fan	Axial
Condenser Motor Type	DC
Condenser Motor Drive	Direct
Condenser Coil	Aluminum Fin/Copper Tube
Outdoor Fin Coating (Blue)	Acrylic Resin
Intelligent Defrosting	YES
Low Voltage Startup	YES
Memory/Power Failure Recovery	YES
Self Diagnosis	YES
Low Ambient Cooling	YES

REMOTE CONTROLLER FUNCTIONS¹

See individual Indoor Unit
Controllers Functions

¹ Not all Remote Controller functions are supported.

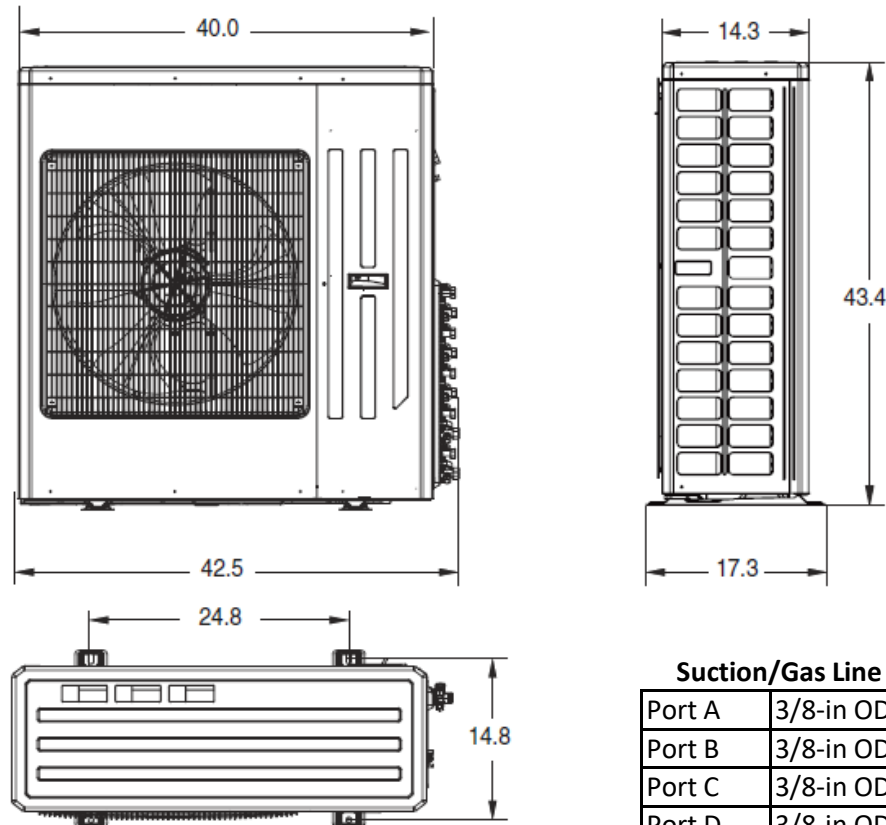
OUTDOOR UNIT DIMENSIONAL SPECIFICATIONS

MBRS42HPJ10A

Units: inch

42,000 BTUH MODEL

Model # MBRS42HPJ10A 42,000 BTUH 230V



Suction/Gas Line Port Size

Port A	3/8-in OD Flared
Port B	3/8-in OD Flared
Port C	3/8-in OD Flared
Port D	3/8-in OD Flared
Port E	3/8-in OD Flared

Liquid Line Port Size

Port A	1/4-in OD Flared
Port B	1/4-in OD Flared
Port C	1/4-in OD Flared
Port D	1/4-in OD Flared
Port E	1/4-in OD Flared

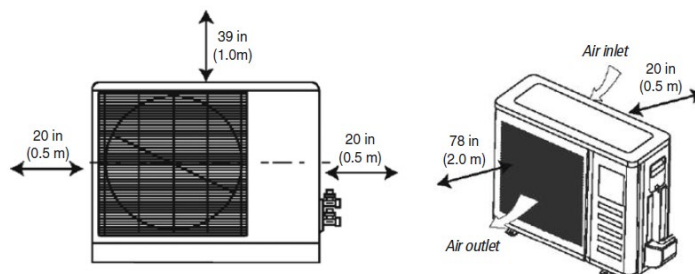
Weight (Net/Shipping)	198.0/216.0 lbs
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Factory Supplied Piping Adapters

Adapter	P/N	Qty
3/8 (F) to 5/8 (M)	6654100009	3
3/8 (F) to 1/2 (M)	6654100013	4
1/4 (F) to 3/8 (M)	6654104	2

MINIMUM SPACING REQUIREMENTS

Units: inch (m)



Notes:

1. Recommended Interconnecting Cable Type Stranded Copper Conductors THHN 600V Unshielded Wire
2. Power wiring cable size must comply with applicable national and local codes.
3. Test conditions are based on AHRI 210/240.

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OPERATIONAL PERFORMANCE SPECIFICATIONS

MBRS42HPJ10A

COOLING CAPACITY (BTUH)

Indoor Units Combinations	Rated System (BtuH)	Indoor Unit A (BtuH)	Indoor Unit B (BtuH)	Indoor Unit C (BtuH)	Indoor Unit D (BtuH)	Indoor Unit E (BtuH)
9+9	19,500	9,000	9,000	NA	NA	NA
9+12	21,000	9,000	12,000	NA	NA	NA
9+18	25,500	8,000	17,500	NA	NA	NA
9+24	26,300	7,000	19,300	NA	NA	NA
12+12	24,000	12,000	12,000	NA	NA	NA
12+18	28,400	11,400	17,000	NA	NA	NA
12+24	32,700	10,000	22,700	NA	NA	NA
18+18	31,680	15,840	15,840	NA	NA	NA
18+24	33,190	14,240	18,950	NA	NA	NA
24+24	35,120	17,560	17,560	NA	NA	NA
9+9+9	24,600	8,200	8,200	8,200	NA	NA
9+9+12	24,900	7,500	7,500	9,900	NA	NA
9+9+18	30,200	7,200	7,200	15,800	NA	NA
9+9+24	34,900	6,600	6,600	21,700	NA	NA
9+12+12	29,600	8,000	10,800	10,800	NA	NA
9+12+18	32,900	7,400	9,800	15,700	NA	NA
9+12+24	36,100	6,800	9,100	20,200	NA	NA
9+18+18	36,100	6,500	14,800	14,800	NA	NA
12+12+12	31,200	10,400	10,400	10,400	NA	NA
12+12+18	35,100	9,960	9,960	15,180	NA	NA
12+12+24	37,500	9,300	9,300	18,900	NA	NA
12+18+18	37,500	8,900	14,300	14,300	NA	NA
9+9+9+9	35,480	8,870	8,870	8,870	8,870	NA
9+9+9+12	36,490	8,460	8,460	8,460	11,110	NA
9+9+9+18	38,350	7,650	7,650	7,650	15,400	NA
9+9+12+12	39,000	8,300	8,300	11,200	11,200	NA
9+9+12+18	39,840	7,470	7,470	9,960	14,940	NA
9+12+12+12	39,280	7,000	10,760	10,760	10,760	NA
9+12+12+18	40,010	6,760	9,600	9,600	14,050	NA
12+12+12+12	39,800	9,950	9,950	9,950	9,950	NA
9+9+9+9+9	39,600	7,920	7,920	7,920	7,920	7,920
9+9+9+9+12	39,700	7,430	7,430	7,430	7,430	9,980

Note:

1) It is critical to size the outdoor unit for the entire building load and each indoor unit for it's individual zone load.
Cooling Nominal Test Conditions: Indoor: 80°F DB/67°F WB Outdoor: 95°F DB/75°F WB

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HEATING CAPACITY (BTUH)

Indoor Units Combinations	Rated System (BtuH)	Indoor Unit A (BtuH)	Indoor Unit B (BtuH)	Indoor Unit C (BtuH)	Indoor Unit D (BtuH)	Indoor Unit E (BtuH)
9	9,500	9,500	NA	NA	NA	NA
12	13,000	13,000	NA	NA	NA	NA
18	18,500	18,500	NA	NA	NA	NA
24	23,600	23,600	NA	NA	NA	NA
9+9	32,500	9,500	9,500	NA	NA	NA
9+12	35,500	9,500	13,000	NA	NA	NA
9+18	46,300	9,300	18,500	NA	NA	NA
9+24	51,200	8,000	21,600	NA	NA	NA
12+12	39,000	13,000	13,000	NA	NA	NA
12+18	47,000	12,000	17,500	NA	NA	NA
12+24	58,400	11,200	23,600	NA	NA	NA
18+18	52,000	17,400	17,300	NA	NA	NA
18+24	59,400	16,200	21,600	NA	NA	NA
24+24	57,600	19,200	19,200	NA	NA	NA
9+9+9	36,000	9,000	9,000	9,000	NA	NA
9+9+12	37,800	9,000	9,000	10,800	NA	NA
9+9+18	43,800	8,800	8,800	17,400	NA	NA
9+9+24	47,500	7,900	7,900	23,800	NA	NA
9+12+12	45,000	9,000	12,000	12,000	NA	NA
9+12+18	47,350	8,650	11,200	16,300	NA	NA
9+12+24	51,180	7,900	10,240	22,800	NA	NA
9+18+18	57,750	7,560	16,730	16,730	NA	NA
12+12+12	48,000	12,000	12,000	12,000	NA	NA
12+12+18	51,500	11,400	11,400	17,300	NA	NA
12+12+24	53,120	10,620	10,620	21,260	NA	NA
12+18+18	58,685	10,130	16,185	16,185	NA	NA
9+9+9+9	55,000	11,000	11,000	11,000	11,000	NA
9+9+9+12	54,460	10,260	10,260	10,260	13,420	NA
9+9+9+18	53,880	8,920	8,920	8,920	18,200	NA
9+9+12+12	54,630	9,630	9,630	12,870	12,870	NA
9+9+12+18	54,150	8,550	8,550	11,400	17,100	NA
9+12+12+12	57,680	8,120	12,390	12,390	12,390	NA
9+12+12+18	56,250	8,010	10,680	10,680	16,200	NA
12+12+12+12	57,350	11,470	11,470	11,470	11,470	NA
9+9+9+9+9	54,600	9,100	9,100	9,100	9,100	9,100
9+9+9+9+12	54,180	8,540	8,540	8,540	8,540	11,480

Note:

1) It is critical to size the outdoor unit for the entire building load and each indoor unit for it's individual zone load.

Cooling Nominal Test Conditions: Indoor: 80°F DB/67°F WB Outdoor: 95°F DB/75°F WB

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COOLING PERFORMANCE

DB WB		Indoor Ambient Temperature											
		70°F (21°C)			75°F (24°C)			80°F (27°C)			90°F (32°C)		
		59°F (15°C)			63°F (17°C)			67°F (19°C)			73°F (23°C)		
In	DB	TC (BtuH)	SC (BtuH)	Input Power (watts)	TC (BtuH)	SC (BtuH)	Input Power (watts)	TC (BtuH)	SC (BtuH)	Input Power (watts)	TC (BtuH)	SC (BtuH)	Input Power (watts)
In	-0.4°F (-18°C)	23,610	18,510	1,620	26,630	20,890	1,710	28,140	22,070	1,780	31,720	24,870	1,900
	5°F (-15°C)	24,210	18,990	1,620	27,310	21,420	1,730	29,220	22,910	1,780	32,520	25,510	1,900
	14°F (-10°C)	24,880	19,510	1,630	28,070	22,020	1,730	29,670	23,270	1,800	33,440	26,220	1,920
	23°F (-5°C)	27,260	21,380	1,630	31,060	24,360	1,730	33,410	26,200	1,780	36,750	28,820	1,910
	32°F (0°C)	28,654	22,475	1,629	32,641	25,603	1,725	32,329	26,323	1,785	38,639	29,478	1,915
	41°F (5°C)	30,124	23,627	1,713	34,315	26,916	1,813	33,987	27,673	1,877	40,621	30,989	2,014
	50°F (10°C)	31,379	24,612	1,784	35,745	28,038	1,889	35,403	28,826	1,955	42,313	32,281	2,098
	59°F (15°C)	33,060	25,930	1,880	37,660	29,540	1,990	37,300	30,370	2,060	44,580	34,010	2,210
	68°F (20°C)	33,012	29,754	1,980	33,575	29,396	1,990	37,499	32,125	2,000	44,870	34,138	2,210
	77°F (25°C)	35,213	29,174	2,480	37,977	30,965	2,685	41,389	33,541	2,820	47,804	34,463	2,515
	86°F (30°C)	36,510	29,037	3,650	38,540	31,238	3,555	43,334	34,121	3,600	48,572	35,333	3,280
	95°F (35°C)	33,780	29,344	3,635	36,612	31,801	3,485	40,809	33,780	3,590	41,406	33,814	3,555
	104°F (40°C)	29,481	27,297	3,600	33,831	30,931	3,645	34,974	32,586	3,670	37,875	32,722	3,735
	113°F (45°C)	23,203	22,486	2,750	25,779	24,567	2,775	28,662	26,683	2,800	29,856	28,031	2,830
	118°F (48°C)	16,795	16,508	1,988	18,255	17,668	2,101	19,381	18,528	2,158	20,531	19,749	2,204

HEATING PERFORMANCE

DB WB		Indoor Ambient Temperature											
		70°F (21°C)			75°F (24°C)			80°F (27°C)			90°F (32°C)		
		59°F (15°C)			63°F (17°C)			67°F (19°C)			73°F (23°C)		
In	DB	TC (BtuH)	SC (BtuH)	Input Power (watts)	TC (BtuH)	SC (BtuH)	Input Power (watts)	TC (BtuH)	SC (BtuH)	Input Power (watts)	TC (BtuH)	SC (BtuH)	Input Power (watts)
In	-5°F (-21°C)	22,950	22,950	2,070	22,300	22,300	2,120	21,870	21,870	2,190	21,320	21,320	2,240
	0°F (-18°C)	24,880	24,880	2,280	24,160	24,160	2,320	23,710	23,710	2,410	23,080	23,080	2,470
	5°F (-15°C)	26,240	26,240	2,380	25,490	25,490	2,430	25,010	25,010	2,520	24,360	24,360	2,580
	7°F (-14°C)	27,350	27,350	2,450	26,550	26,550	2,500	26,040	26,040	2,590	25,370	25,370	2,650
	17°F (-8°C)	28,170	28,170	2,480	27,350	27,350	2,530	26,830	26,830	2,630	26,120	26,120	2,690
	28°F (-2°C)	31,820	31,820	2,650	30,990	30,990	2,700	30,100	30,100	2,800	29,740	29,740	2,860
	38°F (3°C)	39,560	39,560	3,040	38,730	38,730	3,110	37,850	37,850	3,220	37,480	37,480	3,290
	47°F (8°C)	44,720	44,720	3,170	43,360	43,360	3,230	42,500	42,500	3,350	41,330	41,330	3,430
	57°F (14°C)	46,190	46,190	3,230	44,800	44,800	3,290	43,910	43,910	3,410	42,690	42,690	3,490
	68°F (20°C)	48,080	48,080	3,340	46,620	46,620	3,410	45,690	45,690	3,530	44,430	44,430	3,620
	77°F (25°C)	49,190	49,190	3,420	47,710	47,710	3,490	46,750	46,750	3,620	45,460	45,460	3,700

LEGEND

DB --- Dry Bulb

TC --- Total Net Cooling Capacity (BtuH)

WB --- Wet Bulb

SC --- Sensible Capacity (BtuH)

Input Power---(Watts)

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- 1. SEE INDIVIDUAL INDOOR UNIT
SUBMITTALS FOR DIMENSIONS**
- 2. LINE SETS MUST BE SIZED TO
INDOOR UNIT CONNECTIONS**
- 3. PERFORMANCE RATINGS OF
SYSTEMS ARE BASED ON THE
OUTDOOR UNIT
(SEE PAGE 1 AND AHRI SYSTEM DOCUMENTS)**