

## PRODUCT GUIDE

### MXZ-B MULTI-ZONE HEAT PUMP

#### PRODUCT OVERVIEW

*Total zone control: The MXZ Series provides individually controlled rooms (up to 8 depending on system selected) using a single outdoor unit.*

*With the MXZ-B multi-zone heat pump systems, you can enjoy ideal levels of comfort in the rooms you use most while reducing your energy costs. People in different rooms - like the kitchen, master bedroom or living room - can set temperatures, air flow, and speed for personalized comfort.*



- Complete range of capacity options from 20,000-48,000 Btu/h
- 2, 3, 4, 5 and 8 port systems
- Individual zone control
- Mix and match flexibility of indoor unit styles and combinations
- A wide range of indoor unit capacities that match the room size and requirements
- Flexible design options to tackle the most challenging multi-room installations
- Simple, quick, and cost-effective installation keeps install costs down on new construction and disruption to a minimum on renovations and refits
- Efficient systems, including multiple options that meet ENERGY STAR requirements

#### NEW FOR 2013 - MXZ-5B42NA

- Energy efficient 5 port 3.5 ton system - perfect for whole floors or entire homes
- Exceptional heating capacity
- Long line length (262 ft.) and height (49 ft.) capabilities

Mitsubishi Electric MXZ	20,000 Btu/h	24,000 Btu/h	30,000 Btu/h	36,000 Btu/h	42,000 Btu/h	48,000 Btu/h
Model Name	MXZ-2B20NA-1	MXZ-3B24NA-1	MXZ-3B30NA-1	MXZ-4B36NA-1	MXZ-5B42NA	MXZ-8B48NA
Max Cooling Capacity Btu/h	20,000	25,500	28,400	36,400	43,000	54,000
Max Heating Capacity (47° F)	25,500	30,600	36,000	43,000	53,600	60,000
Max Heating Capacity (17° F)	14,500	18,800	18,800	24,600	30,500	36,600
No. of Ports	2	3	3	4	5	8
Branch box	NO	NO	NO	NO	NO	YES
SEER	18	17.5	17.5	18	18.4	15
EER	12.5	12.5	9.1	9.4	8.5	8.3
HSPF	8.9	9.3	10.5	9.3	9.3	8.7
COP (47° F)	3.9	4.20	3.90	3.5	3.5	3.32
COP (17° F)	2.7	2.98	2.78	2.68	2.44	2.23
Cooling Min Operation Temp. (° F)	14	14	14	14	14	23
Heating Min Operation Temp. (° F)	5	5	5	5	5	5
Line length (Ft.)	164	230	230	230	262	377
Line height (Ft.)	33	33	33	33	33	98

# PRODUCT GUIDE MULTI-ZONE MXZ-B

## Heat Pumps

Model Name		Outdoor Unit		MXZ-2B20NA-1 *5	MXZ-3B24NA-1 *6	MXZ-3B30NA-1	MXZ-4B36NA-1 *7	MXZ-5B42NA		
Indoor Unit	Cooling *1 Non-ducted/ Ducted	Rated Capacity	Btu/h	18,000/20,000	22,000/23,600	28,400/27,400	35,400/34,400	40,800/37,200		
		Capacity Range	Btu/h	7,800-20,000	12,600-25,500	12,600-28,400	12,600-36,400	12,600-43,000		
		Total Input	W	2,190 (630-2,190)	2,460 (1,000-2,950)	3,330 (1,000-3,330)	3,940 (1,000-4,020)	4,800(1,010-4,800)		
	Heating at 47° F *2 Non-ducted/ Ducted	Rated Capacity	Btu/h	22,000/22,000	25,000/24,600	28,600/27,600	36,000/34,400	45,200/41,200		
		Capacity Range	Btu/h	8,500-25,500	11,400-30,600	11,400-36,000	11,400-43,000	11,400-53,600		
		Total Input	W	2,620 (520-2,620)	1,900 (740-2,600)	2,220 (740-2,820)	3,100 (740-3,940)	3,780 (750-5,100)		
	Heating at 17° F *3 Non-ducted/ Ducted	Rated Capacity	Btu/h	12,500/12,500	14,000/14,000	16,000/15,100	22,200/20,300	23,100/21,800		
		Rated Total Input	W	1,350/1,430	1,380/1,570	2,120/2,140	2,430/2,340	2,930/2,850		
		Maximum Capacity	Btu/h	14,500/12,500	18,800/17,000	18,800/18,000	24,600/25,400	30,500/29,100		
		Maximum Total Input	W	1,500/1,430	2,120/2,230	2,120/2,140	3,340/3,450	4,800/5,550		
Heating at 5° F	Maximum Capacity	Btu/h	11,113	13,336	15,704	18,671	26,000			
Power Supply		Phase, Cycle, Voltage		1-phase, 60Hz, 208 / 230V *8				1-phase, 60Hz, 208 / 230V *8		
Voltage		Indoor - Outdoor S1 - S2		AC 208 / 230V				AC 208 / 230V		
		Indoor - Outdoor S2 - S3		DC ±24V				DC ±24		
Outdoor Unit *4		MCA	A	15	18		23	36.2		
		MOCP	A	20		25		40		
		Fan Motor (ECM)	F.L.A.	0.96	0.93				1.90	
		Compressor	Model (Type)	DC INVERTER-driven Twin Rotary						DC INVERTER-driven Twin Rotary
			R.L.A.	10.1	11		14.4		14.4	
			L.R.A.	15						27
		Airflow (Cooling/Heating)	CFM	1,485/1,640	2,068/1,605	1,365/1,605		2,068/2,068	2,467/2,467	
		Refrigerant Control		Linear Expansion Valve						Linear Expansion Valve
		Defrost Method		Reverse Cycle						Reverse Cycle
		Sound Pressure Level at Cooling *1	dB(A)	49	54	49		54	58	
		Sound Pressure Level at Heating *2	dB(A)	51	49			57	58	
		External Finish Color		Munsell No. 3.0Y 7.8 / 1.1						Munsell No. 3.0Y 7.8 / 1.1
		Dimensions	W: In.	33-1/16	35-7/16				35-7/16	
			D: In.	13	12-5/8				12-19/32	
			H: In.	27-15/16	35-7/16				42-1/8	
Weight	Lbs.	130	150			153	192			
Indoor Unit		No. of Units		2	2, 3	2, 3	2, 3, 4	2,3,4,5		
Remote Controller		Type		Associated with the Indoor Unit				Associated with the Indoor Unit		
Refrigerant		Type		R410A				R410A		
		Charge	Lbs., Oz.	5, 15	7, 11		8, 13	10, 9		
		Oil	Type (fl. oz.)	NEO22 (23.7)	NEO22 (29.4)			FV50S (36.2)		
Refrigerant Pipe		Gas Side O.D.	In.	A,B: 3/8	A: 1/2; B,C: 3/8		A: 1/2; B,C,D: 3/8	A: 1/2; B,C,D,E: 3/8		
		Liquid Side O.D.	In.	1/4					1/4	
Refrigerant Pipe Length		Height Difference (Max.)	Ft.	49/33 *9				49/33 *9		
		Lineset length for each individual indoor unit (Max.)	Ft.	82				82		
		Length (Max.)	Ft.	164 (A+B)	230 (A+B+C)		230 (A+B+C+D)	262 (A+B+C+D+E)		
Connection Method		Indoor/Outdoor		Flared/Flared				Flared/Flared		

NOTES: Test conditions are based on AHRI 240. One indoor unit is turned off during low-speed testing under the new test conditions. **Systems actually exhibit higher energy efficiencies during normal operation.**

\*1. Rating conditions:

**Cooling | Indoor:** D.B. 80° F (27° C), W.B. 67° F (19° C);

**Cooling | Outdoor:** D.B. 95° F (35° C), W.B. 75° F (24° C).

\*2. Rating conditions:

**Heating** at 47° F | Indoor: D.B. 70° F (21° C), W.B. 60° F (16° C);

**Heating** at 47° F | Outdoor: D.B. 47° F (8° C), W.B. 43° F (6° C).

\*3. Rating conditions:

**Heating** at 17° F | Indoor: D.B. 70° F (21° C), W.B. 60° F (16° C);

**Heating** at 17° F | Outdoor: D.B. 17° F (-8° C), W.B. 15° F (-9° C).

\*4. Refer to M-Series Contractor Guide pages 37 to 40 for Indoor Unit specifications.

\*5. Data from combination of two Indoor Units 9,000 Btu/h (non-ducted) or

one 9,000 Btu/h and one 12,000 Btu/h (ducted).

\*6. Data from combination of two Indoor Units 6,000 Btu/h and one 9,000 Btu/h

(non-ducted) or three 9,000 Btu/h (ducted).

\*7. Data from combination of four Indoor Units 9,000 Btu/h (non-ducted and ducted).

\*8. Indoor units receive power from outdoor units through field-supplied interconnected wiring.

\*9. 49' Applies to installations where the outdoor unit is installed below the indoor unit.

Specifications are subject to change without notice.

**LIMITED WARRANTY |** Seven-year compressor and one year parts. See our website for details on specific additional application installation coverage.

Power factor equals 97%.

Specifications are subject to change without notice

## PRODUCT GUIDE MULTI-ZONE MXZ-B

### Heat Pumps

Model Name		Outdoor Unit		MXZ-8B48NA
Indoor Unit	Cooling *1 Non-ducted/Ducted	Rated Capacity	Btu/h	48,000 / 48,000
		Rated Total Input	W	5,780 / 6,470
		Maximum Capacity	Btu/h	54,000
	Heating at 47° F *2 Non-ducted/Ducted	Rated Capacity	Btu/h	54,000 / 54,000
		Rated Total Input	W	4,820 / 5,270
		Maximum Capacity	Btu/h	60,000
	Heating at 17° F *3 Non-ducted/Ducted	Rated Capacity	Btu/h	33,000 / 34,700
		Rated Total Input	W	2,950 / 3,390
		Maximum Capacity	Btu/h	36,600 / 36,500
	Heating at 5° F	Maximum Capacity	Btu/h	32,400
Power Supply		Phase, Cycle, Voltage		1 Phase, 60Hz, 208 / 230V
Voltage		Indoor - Outdoor S1 - S2		AC 208-230V
		Indoor - Outdoor S2 - S3		DC12-24V
Outdoor Unit	MCA		A	32
	Recommended Fuse/Breaker Size		A	50
	Fan Motor	Type x Quantity	Propeller x 2	
		Motor Output (kW)	0.086 + 0.086	
	Compressor	Model (Type)	DC INVERTER-driven Scroll	
		Motor Output (kW)	2.9	
	Airflow (Cooling/Heating)		CFM	3,530
	Refrigerant Control		Linear Expansion Valve	
	Sound Pressure Level at Cooling *1		dB(A)	54
	Sound Pressure Level at Heating *2		dB(A)	55
	External Finish Color		Munsell No. 3Y 7.8 / 1.1	
	Dimensions	W: In.	37-7/16	
		D: In.	13+1-3/16	
		H: In.	53-3/16	
	Weight		Lbs.	278
	Total Capacity 22%-130%		Btu/h	12,000 - 70,200
Indoor Unit		Total Connected Capacity		6,000- 24,000 / 2-8
Remote Controller		Type		Associated with Indoor Unit Model
Refrigerant	Type		R410A	
	Charge	Lbs., Oz.	18, 11.2	
	Oil	Type (fl. oz.)	FV50S (73)	
Refrigerant Pipe	Gas Side O.D.		In.	5/8
	Liquid Side O.D.		In.	3/8
Refrigerant Pipe Length	Height Difference (Max.)		Ft.	66/98 *4
	Maximum distance between (Outdoor unit and farthest indoor unit)		Ft.	230
	Maximum pipe length - Branch box to Indoor Unit		Ft.	49
	Total maximum line length between branch box and all connected indoor units		Ft.	197*
	Length from outdoor unit to branch box (Max.)		Ft.	180
	Total length (Max.)		Ft.	377
Connection Method		Indoor/Outdoor		Flared/Flared

\*Includes both branch boxes if there are two.

NOTES: Test conditions are based on AHRI 240. One indoor unit is turned off during low-speed testing under the new test conditions. **Systems actually exhibit higher energy efficiencies during normal operation.**

\*1. Rating conditions:

**Cooling** | Indoor: D.B. 80° F (27° C), W.B. 67° F (19° C);  
**Cooling** | Outdoor: D.B. 95° F (35° C), W.B. 75° F (24° C).

\*2. Rating conditions:

**Heating** at 47° F | Indoor: D.B. 70° F (21° C), W.B. 60° F (16° C);  
**Heating** at 47° F | Outdoor: D.B. 47° F (8° C), W.B. 43° F (6° C).

\*3. Rating conditions:

**Heating** at 17° F | Indoor: D.B. 70° F (21° C), W.B. 60° F (16° C);  
**Heating** at 17° F | Outdoor: D.B. 17° F (-8° C), W.B. 15° F (-9° C).

\*4. Refer to M-Series Contractor Guide pages 37 to 40 for Indoor Unit specifications.

\*5. Data from combination of two Indoor Units 9,000 Btu/h (non-ducted) or one 9,000 Btu/h and one 12,000 Btu/h (ducted).

\*6. Data from combination of two Indoor Units 6,000 Btu/h and one 9,000 Btu/h (non-ducted) or three 9,000 Btu/h (ducted).

\*7. Data from combination of four Indoor Units 9,000 Btu/h (non-ducted and ducted).

\*8. Indoor units receive power from outdoor units through field-supplied interconnected wiring.

\*9. 49' Applies to installations where the outdoor unit is installed below the indoor unit.

Power factor equals 97%.

Specifications are subject to change without notice

Only a single lineset is needed from the outdoor unit to branch box.

See page 4 for MXZ-B efficiency information

#### Branch Boxes:

(At least one branch box required)

Model Name			PAC-AKA31BC	PAC-AKA51BC
Connectable No. of Indoor Units			3	5
Power Supply	Phase, Cycle, Voltage		1 Phase, 60Hz, 208 / 230V	
Power Input		W	3	
Current		A	0.05	
External Finish			Galvanized-Steel Sheets	
Dimensions	Width	In.	17-3/4	
	Depth	In.	11	
	Height	In.	7-3/4	
Net Weight		Lbs.	19	21
Refrigerant Pipe Dimensions	Outdoor Unit to Branch Box	Gas (In.)	5/8	
		Liquid (In.)	3/8	
	Branch Box to Indoor Units	Gas (In.)	A,B,C: 3/8	A, B, C, D: 3/8; E: 1/2
		Liquid (In.)	A,B,C: 1/4	A, B, C, D, E: 1/4
Drainpipe Size (O.D.)		In.	3/4	

Specifications are subject to change without notice.

**LIMITED WARRANTY** Seven-year compressor and one year parts. See our website for details on specific additional application installation coverage.

## Heat Pumps

### Multi-zone Efficiency Ratings

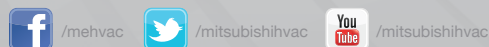
Model	Indoor Unit Type	SEER	EER	HSPF	COP at 47 ° F	COP at 17 ° F
MXZ-2B20NA-1	Non-ducted	18	12	8.9	3.9	2.7
	Ducted and Non-ducted	16.75	10.55	8.7	3.76	2.63
	Ducted	15.5	9.1	8.5	3.62	2.56
MXZ-2B20NA-1 ENERGY STAR®	Any Non-Ducted	18	12	8.9	3.9	2.7
MXZ-3B24NA-1	Non-ducted	17.5	12	9.3	4.2	2.98
	Ducted and Non-ducted	16.25	10.8	8.9	4	2.8
	Ducted	15	9.6	8.5	3.8	2.62
MXZ-3B24NA-1 ENERGY STAR®	Any Non-ducted	17.5	12	9.3	4.2	2.98
MXZ-3B30NA-1	Non-ducted	17.5	9.1	10.5	3.9	2.78
	Ducted and Non-ducted	16	8.65	10	3.76	2.78
	Ducted	14.5	8.2	9.5	3.64	2.78
MXZ-4B36NA-1	Non-ducted	18	9.4	9.3	3.5	2.68
	Ducted and Non-ducted	16.5	9.05	9.15	3.38	2.6
	Ducted	15	8.7	9	3.26	2.54
MXZ-5B42NA	Non-ducted	18.4	9.4	9.8	3.50	2.44
	Ducted and Non-ducted	16.45	8.95	9.25	3.40	2.48
	Ducted	14.5	8.5	8.7	3.30	2.52
MXZ-8B48NA	Non-ducted	15	8.3	8.7	3.32	2.3
	Ducted and Non-ducted	14.85	7.85	8.8	3.16	2.24
	Ducted	14.7	7.4	8.9	3	2.2

### Multi-zone Indoor/Outdoor Combination Table

Multi-Zone Outdoor Units	Indoor Units								
	MSZ-A/GA	MSZ-FD/FE	MSZ-GE	MFZ	SEZ	SLZ	PCA	PLA	PEAD
MXZ-2B20NA-1	OK	OK	06/09/12/15 OK 18, 24 NO	09/12 OK 18 NO	9, 12, 15 OK 18 NO	OK	NO	NO	NO
MXZ-3B24NA-1	OK	OK	06/09/12/15/18 OK 24 NO	OK	OK	OK	NO	18 OK 12, 24 NO	NO
MXZ-3B30NA-1	OK	OK	OK	OK	OK	OK	24 OK	18, 24 OK 12 NO	24 OK
MXZ-4B36NA-1	OK	OK	OK	OK	OK	OK	24 OK	18, 24 OK 12 NO	24 OK
MXZ-5B42NA	OK	OK	OK	OK	OK	OK	24 OK	18, 24 OK 12 NO	24 OK
MXZ-8B48NA	OK	OK	OK	OK	OK	OK	NO	12, 18, 24 OK	24 OK

NOTES: There are NO indoor units larger than 24,000 BTU/h that can be connected to MXZ Systems.  
PLA-A12BA can NOT be connected with MXZ-2B20/MXZ-2B20-1/MXZ-3B24/MXZ-3B30/MXZ-4B36/MXZ-5B42NA.

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