

Mitsubishi Electric Cooling and Heating Solutions

Mitsubishi Electric HVAC products, available in the U.S. for thirty years, have provided exceptional, personalized comfort control while being very energy efficient.

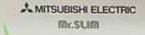
Mitsubishi Electric's INVERTER-driven compressor systems use refrigerant lines to connect an outdoor unit to one or more indoor air handlers. A home's or building's energy efficiency increases when only the amount of cooling or heating needed for the space where the unit is installed. Advanced technologies are used to control the precise temperature in each room and have the capability to condition only the rooms in use.

Using a wireless remote or wall-mounted controller for each space, Mitsubishi Electric systems allow a truly personal level of comfort. Environmentally friendly refrigerant (R410A), advanced filtration systems, and high efficiency ratings are standard on all Mitsubishi Electric HVAC systems.

This synergy of smart design and cutting-edge environmental technology delivers an end result of true eco-comfort for any conditioned space.









How environmentally friendly are Mitsubishi Electric HVAC systems?

Mitsubishi Electric is dedicated to providing environmentally responsible systems that minimize the environment and our customer's carbon footprint.



Mitsubishi Elelectric's environmental commitment is evidenced by the fact that up to 83% of our system components are recyclable. More of our systems are ENERGY STAR® certified and qualify for the federal tax credit of up to \$300. Local and state government and utility companies may provide tax credits and rebate opportunities for energy-efficient systems. See what's available in your area by visiting www.dsireusa.org.

How many ENERGY STAR rated systems qualify for the federal tax credit?

20 systems are ENERGY STAR rated.

14 systems qualify for the federal tax credit.

Qualified systems include the following products: coolingonly, heat pump, H2i® Hyper-Heating INVERTER heat-pump, 2-to-1, and 3-to-1 multi-zone heat pump systems.

For details on tax credit requirements, visit www.mitsubishicomfort.com/taxcredit, and for information on available local rebate opportunities from state or utility companies, visit www.dsireusa.org, which is a U.S. Department of Energy information service.

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Single-Lone 9,000-36,000 Btu/h

2:1, 3:1, 4:1, 8:1

20,000 - 48,000 Btu/h

Mitsubishi Electric System Technologies: user-friendly zoned residential

personalized comfort solutions

Mitsubishi Electric indoor units are easy to install-practically anywhere:

- High on the wall to blend into a room without taking up window space
- In the ceiling or below the floor out of sight
- Low on the wall to be unobtrusive

Our systems are the perfect way to cool or heat any single room or multiple rooms in homes or office.

Heat-pump systems feature auto mode, which automatically switches between cooling and heating in response to changing needs. Our systems are nearly silent; their fans deliver air quietly and continuously with only a gentle "whoosh" for constant circulation and filtration. For this reason, Mitsubishi Electric split-zoning systems have long been the choice for thousands of homes, churches, schools, and libraries across the U.S. and the world.

Technology Benefits of Mitsubishi Systems

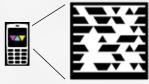
Features	Benefits				
INVERTER-DRIVEN COMPRESSORS	Maximizes energy savings by making sure only the energy needed to cool or heat an area perfectly is used.				
EASY INSTALLATION	Installs quickly and easily, having no need for major construction and remodeling.				
COMPLETE ZONE CONTROL	Realizes maximum control and energy efficiency by cooling and heating only those spaces in use.				
ADVANCED MICROPROCESSOR TECHNOLOGY	Creates a comfortable environment no matter what conditions are outside with our advanced, self-monitoring controls.				
PERSONAL COMFORT CONTROL	Offers comfort control of temperature, fan speed, and air direction in the specific zone with dedicated controller.				
WASHABLE, LONG-LIFE ANTI-ALLERGEN FILTERS	Improves air quality and saves money by washing rather than replacing the filter.				
AUTO COOL/HEAT CHANGEOVER	Switches automatically from cooling to heating (MUZ/SUZ systems) if desired.				
ENVIRONMENTALLY FRIENDLY REFRIGERANT	Uses R410A, an environmentally friendly refrigerant.				



Mitsubishi Electric split-zoning, cooling-only and heat pump systems are so energy efficient that currently **20 systems** of our INVERTER-driven systems are ENERGY STAR® rated. This can mean big savings.

Add in the federal tax credit and local government and utility rebates, and you have an opportunity to enjoy comfort at substantial savings.





Get the free app for your smart phone at http://gettag.mobi

For details on qualifying systems, go to www.mitsubishicomfort.com/taxcredit, or use your smart phone to scan the tag to the left and go to the page. Visit www.dsireusa.org for information on available local rebate opportunities from state or utility companies.



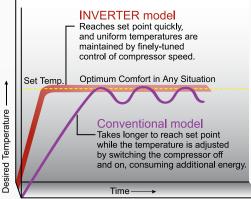


Innovative Variable-speed Compressor Technology

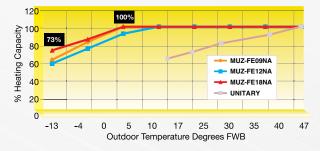
Sophisticated electronic control systems detect any changes in room or zone temperature and—like a car's cruise control—automatically adjust the speed of the outdoor units INVERTER-driven compressor and electronic linear expansion valve (LEV) position for precise capacity control. The INVERTER-driven compressor is unlike those found in other systems which only start and stop repetitively. Special components within the INVERTER compressor such as high density windings in the motor that increase the magnetic flux, and artificial magnets in the rotor to reduce its weight, allowi it to operate at higher energy efficiencies with better performance than ever before, while producing low sound levels both during start-up and operation.







MUZ-FE H2i Heating Capacity at Low Temperatures*



*Includes correction for defrost

Heat and Lots of It

In addition to the already innovative INVERTER-driven compressor, the MSZ-FE high-efficiency systems are also ENERGY STAR® rated and tax credit qualified up to 26 SEER delivering exceptional heating performance.



These systems provide heating down to -13° F outdoor ambient and produce up to 100% heating capacity at 5° F MSZ-FE09/18; 92% capacity at 5° F for MSZ-FE12. Our systems provide year–round comfort in extreme climates while being extremely energy efficient. There usually is no need for resistance electric or other supplemental, energy–consuming devices with this performance.

Fsee Sensor

i-see[™] Sensor (MSZ-FE09/12NA models only)

The i-see Sensor detects temperature variations in hard-to-control ceiling and floor areas, and controls the airflow up to a wide lateral angle for ultimate comfort (90° angle in cooling mode).

By scanning the room and adjusting airflow based on ambient temperature readings, MSZ-FE systems achieve superior cooling/heating performance with extremely efficient operation.



*Low Ambient temperature conditions may require base pan header (GE and FE 1:1 systems)

Superior Operation

Advanced Control Technology

Through Mitsubishi Electric's advanced controls technology, the indoor unit is powered by the outdoor unit. Three polarity sensitive wires plus a ground conductor run from the outdoor to the indoor unit, providing both power and data communication. An advanced wireless remote control is available for all ductless models. An optional wired on-the-wall controller is available for wall-mounted/floor-standing indoor units on INVERTER systems (also requires MAC-397 If adapter).



Quiet Operation

Do you hear that? No? Mitsubishi Electric systems operate at low sound levels; our indoor units produce decibels barely at a whisper level. Compare to other common sounds:

Police siren
Circular saw
Vacuum cleaner
Whisper-tone voice
Library reading room
Our Indoor Units
(at low speed)

118 decibels
107 decibels
74 decibels
35 decibels
33 decibels
19 - 34 decibels

Did you hear that? We hope you did.

Warm Air, No Drafts

Our hot-start heat-pump technology provides warmth from the beginning. The fan increases in speed as the coil is warmed, reducing drafts so when you want warm air, you get it.

System Control

Mitsubishi Electric offers a comprehensive remote controller that can adjust temperature, fan speed, and more. Choose from four modes: COOL, HEAT, AUTO, and DRY. The controller also has a 12-hour ON/OFF timer for one-button control of your personal comfort.

Easy to Maintain

With easily accessible filters, little or no ductwork to clean, and simple wiring between the indoor and outdoor units, Mitsubishi Electric systems require minimal maintenance, providing another level of convenience.

Auto Changeover on Heat-Pump Systems (MUZ/SUZ outdoor units)

Our heat-pump systems sense whether a space needs cooling or heating, and automatically switch modes as needed to maintain a consistent temperature. You can set it and forget it.





SET IT AND FORGET IT

Total Comfort

Additional Air Circulation With the WIDE VANE or SWING mode, available on the MSY(Z)-FE18/ GE24/D30/36NA, there is an option for seven horizontal airflow directions that provide 150° of lateral airflow for greater conditioned air circulation. 150°

Programmable Comfort

Smart Set, featured on MSZ-GE-06 to GE-18 systems provides the option to program multiple settings into one quick-press feature, providing an additional level of comfort control.

The POWERFUL mode (found on select systems) is available to cool or heat any desired space quickly by lowering the set temperature in cooling mode or raising the set temperature in heating mode, both by 7° F. In POWERFUL Mode, the fan speed increases for 15 minutes, then the system resumes all standard operations.

Multiple Filters for Cleaner, Healthier Air

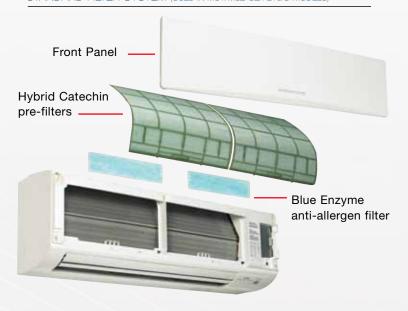
Mitsubishi Electric indoor units use a sophisticated multi-part filter system to remove contaminants such as allergens, viruses, and bacteria from the air.

A hybrid catechin pre-filter absorbs odorcausing gases. The hybrid-coating process makes the catechin filter washable and-if properly maintained with regular cleaningremains effective for up to 10 years.

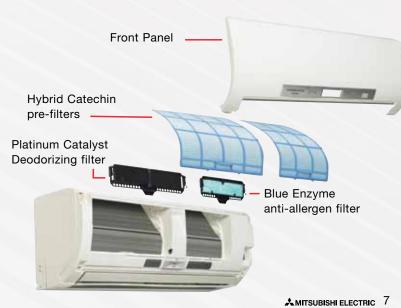
A Blue-enzyme anti-allergen filter reduces germs, bacteria, and viruses, and helps trap dust, pollens, mites, and other particles. The filter uses an enzyme catalyst to help break down the sulfur atom bonds in allergen proteins, transforming them into non-allergen proteins, and, effectively cleaning the air. The filter should be cleaned regularly to maintain efficiency.

The high-efficiency MSZ-FE09/12NA indoor units incorporate the standard Catechin filter plus two more filters for triple filtration. The second filter, a Blueenzyme filter made of a fibrous material, renders allergens harmless by using enzymes. The third filter, a Platinum Catalyst Deodorizing filter, has a ceramic surface absorption element and uses nanotechnology for high-power odor absorption. Periodic cleaning, following the recommended procedures, will maintain filter effectiveness for up to two years. This combination of filters provides a complete air-purifying system within the ultimate comfort solution.

STANDARD FILTER SYSTEM (USED IN MSY/MSZ-GE/FE18/D MODELS)



ENHANCED FILTER SYSTEM (USED IN MSZ-FE09/12NA MODELS)



System Lineup

RESIDENTIAL AND LIGHT COMMERCIAL SYSTEM MODELS AND CONTROLLERS

SINGLE-ROOM, WALL-MOUNTED A/C (cooling only)

MS/MU Air Conditioners 9,500 to 12,000 Btu/h Capacity Range 13 SEER



- Provides cooling-only system
- Non-INVERTER rotary compressor
- Ideal for spaces such as bedrooms, garages, out-buildings, video monitoring

MSY/MUY Air Conditioners 3,800 to 34,600 Btu/h Capacity Range 15.1 - 21 SEER



- · Cooling-only system
- INVERTER-driven compressor
- WIDE VANE for a wider angle of airflow, 150° from left to right (on GE24/D30/D36/FE18 models)
- Ideal for spaces such as bedrooms, garages, large open rooms and bonus rooms

SINGLE-ROOM, WALL-MOUNTED HEAT PUMPS (cooling and heating)

MSZ/MUZ Heat Pumps Capacity Range 14.5 - 21 SEER



- Uses INVERTER-driven compressor
- · Provides cooling and heating in a wide range of capacities
- Offers a WIDE VANE for a wider angle of airflow, 150° from left to right (on GE24/D30/D36 models)
- Ideal for applications in bedrooms, home offices, living rooms, dining rooms, bonus rooms, basements, kitchens, guard houses and more



- INVERTER-driven compressor
- Quiet operation as low as 19dB(A)
- i-see[™] Sensor technology (only on 09/12 units)
- Enhanced filtration system (only on 09/12 units)
- H2i[®] high-heat capabilities (see page 12 &13) MSZ-FE09 is 100 percent at 5° F MSZ-FE12 is 92 percent at 5° F MSZ-FE18 is 100 percent at 5° F

SINGLE-ROOM, LOW WALL or FLOOR-STANDING UNIT (for use with MXZ-B)

MFZ (For use with MXZ-B Outdoor Units only)

- · Provides cooling and heating in a wide range of capacities
- Two outlet air vents:
 - Upper vent for cooling or heating
 - Bottom vent for heating only
- Flush or recessed installation

New to our lineup is a Low Wall or Floor-Standing model that can fit into those once difficult installations. These units provide comfort in spaces such as finished attics with knee walls, basements with low ceilings, and glass-walled sunrooms.

These models provide conditioned air two vents, and provide direct front-panel access to the filter for easy cleaning. The MFZ can even be recessed in a wall during installation provided proper clearances are maintained. (Currently there is no 1:1 system with MFZ)



SINGLE-ROOM, HORIZONTAL-DUCTED HEAT PUMPS (cooling and heating)

SEZ/SUZ **Heat Pumps** 3,800 to 19,000 Btu/h Capacity Range 15-17.5 SEER 10 HSPF



If your customer is looking for discrete zoned comfort, then a short-run ducted unit is the right solution. As a stand-alone system or connected to a MXZ multi-room system, the SEZ ducted units provide energy efficiency, quiet operation, and a compact design for quick, easy installation hidden either in the ceiling or beneath the floor.

All of the 1:1 systems are ENERGY STAR certified, and two systems qualify for the federal tax credit. These systems provide customers with an environmentally friendly indoor unit with a similar installation and familiar style.

These SEZ indoor units also connect to MXZ multi-zone systems, providing a wide array of installation options to best fit any application.

SINGLE-ROOM, CEILING-RECESSED CASSETTE UNIT

SLZ/SUZ Heat Pumps 3,100 to 22,200 Btu/h Capacity Range 15 - 16 SEER 9.6 HSPF

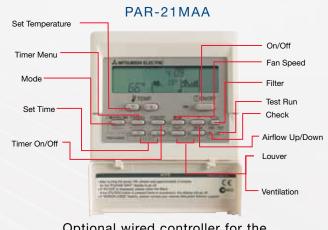


The SLZ-KA ceiling-recessed units casette offer a wide air-flow pattern for better air distribution in a less obtrusive style. These indoor units can be used in 1:1 heat pump and multi-zone systems providing more options to your customers. Install SLZs in a hard ceiling (with a access panel for servicing) or in a 2x2 extra space drop ceiling. With a built-in drainlift mechanism for condensate removal and a 4" ventilation-air intake knockout option, and multiple options for the 1:1 systems, the SLZ handles a variety of installation needs.

Two of the three 1:1 systems are ENERGY STAR qualified.

WIRELESS and WIRED REMOTE CONTROLLERS





Optional wired controller for the SEZ, SLZ, MFZ and MSY/Z indoor units. (Optional controller for wall-mounted is available: and floor-standing indoor units. Unit requires MAC-397 If adapter)

MHK1 WIRELESS REMOTE CONTROLLER Exclusive for INVERTER-driven Mr. Slim® Systems*







* SEZ and SLZ 1:1 systems with SUZ outdoor unit only

MIFH1



MS COOLING-ONLY





NON-INVERTER

			14014 114	· _ · · · · _ · ·		
Model Name	Indoor U	nit	MS-A09WA	MS-A12WA		
Model Name	Outdoor I	Jnit	MU-A09WA	MU-A12WA		
	Rated Capacity	Btu/h	9,500	12,000		
	Capacity Range	Btu/h	-	-		
0	Total Input	w	870	1,070		
Cooling *1	Energy Efficiency	SEER	-	3		
	Moisture Removal	Pints/h	2.7	3.2		
	Sensible Heat Factor	1	0.68	0.70		
Power Supply	Phase, Cycle, Voltage		1 Phase, 60)Hz, 115V *2		
	Indoor - Outdoor L1-N			115V		
Voltage	Indoor - Outdoor N-2	_		115V		
	Indoor - Remote Controller MCA	Α		ss Type .2		
	Fan Motor	F.L.A.	<u> </u>	95		
	Airflow (Lo-Med-Hi	DRY (CFM)	183-261-335-367	222-286-406-446		
	Powerful)	WET (CFM)	162-233-300-328	198-254-363-399		
	Sound Pressure Level	1				
	(Lo-Med-Hi)	dB(A)	26-32-40-42	33-38-45		
ndoor Unit	External Finish Color	,		1.0Y 9.2/0.2		
		W: In.	30-11/16			
	Dimension Unit	D: In.	8-1/4			
		H: In.	11-3/4			
	Weight Unit	Lbs.	23			
	Field Drainpipe Size O.D.	ln.	5	/8		
	MCA	Α	14	16		
	MOCP	(Time Delay) A	15	20		
	Fan Motor	F.L.A.	0.63	0.93		
		Model (Type)	Single Rotary			
	Compressor	R.L.A.	9.3	10.82		
		L.R.A.	47	56		
	Airflow	CFM	1,083	1,327		
Outdoor Unit	Refrigerant Control		· · · · · · · · · · · · · · · · · · ·	ry Tube		
	Sound Pressure Level	1				
	(Cooling) *1	dB(A)	47	52		
	External Finish Color	•	Munsell No	. 3Y 7.8/1.1		
		W: In.	31-1/2	33-7/16		
	Dimensions	D: In.	11-1/4	11-7/16		
		H: In.	21-5/8	23-13/16		
	Weight	Lbs.	78	96		
Remote Controller	Туре	,	Wireless	Remote		
	Туре		R4	10A		
Refrigerant	Charge	Lbs., Oz.	2, 5	3, 1		
-	Oil	Type (Fl. Oz.)		2 (10.8)		
	Gas Side O.D.	In.	3/8	1/2		
	Liquid Side 0.D.] ""	1	/4		
Refrigerant Pipe	Height Difference (Max.)	Ft.	3			
	Length (Max.)	- FL	65			
	1	1	1	-		

NOTES: Test conditions are based on AHRI 210/240.

 $\label{limited warranty} \textbf{LIMITED WARRANTY} \ \middle| \ \textbf{Seven-year warranty on compressor. Five-year warranty on parts.}$

^{*1.} Rating conditions (cooling) - Indoor D.B. 80° F (27° C), W.B. 67° F (19° C); Outdoor: D.B. 95° F (35° C), W.B. 75° F (24° C).
*2. Indoor units receive power from outdoor units through field-supplied interconnected wiring.

Specifications are subject to change without notice.









MSY COOLING-ONLY (CONT.)







energy
ENERGY

			ENERGY STAR	ENERGY STAR	ENERGY STAR		ENERGY STAR				
Madel News	Indoor Unit		MSY-GE09NA	MSY-GE12NA	MSY-GE15NA	MSY-GE18NA	MSY-GE24NA	MSY-D30NA	MSY-D36NA		
Model Name	Outdoor Unit		MUY-GE09NA	MUY-GE12NA	MUY-GE15NA	MUY-GE18NA	MUY-GE24NA	MUY-D30NA	MUY-D36NA		
	Rated Capacity	Btu/h	9,000	12,000	14,000	17,200	22,500	30,700	34,600		
	Capacity Range	Btu/h	3,800-12,200	3,800-13,600	3,100-18,200	3,700-18,700	8,200-31,400	9,800-30,700	9,800-34,600		
		İ			1,080 (160-	1,640 (240-	1,800 (570-				
Cooling *1	Total Input	W	660 (205-1,200)	960 (205-1,300)	2,000)	2,070)	3,580)	3,380 (620-3,380)	4,240 (620-4,240)		
	Energy Efficiency	SEER	21	20.5	21	19.2	19	16	15.1		
	Moisture Removal	Pints/h	1.5	2.5	2.7	4.6	2.7	9.9	11.9		
	Sensible Heat Factor		0.82	0.74	0.80	0.71	0.75	0.64	0.62		
Power Supply	Phase, Cycle, Voltage				1-	phase, 60Hz, 208 /					
	Indoor - Outdoor S1 - S2		AC 208 / 230V								
Voltage	Indoor - Outdoor S2 - S3					DC12-24V					
	Indoor - Remote Controller	1.			Wireless Typ	e (Optional Wired C	controller: DC 12V)				
	MCA	Α				1.0					
	Fan Motor	F.L.A.			1	0.76		1			
	Airflow at Cooling	DRY (CFM)	145-170-23	37-321-399	205-272-335- 420-533	230-275-339- 420-533	388-469-628-738	389-6	39-848		
	(Quiet-Lo-Med-Hi-Super Hi) *1	WET (CFM)	109-134-20	01-286-364	170-237-300- 385-498	194-240-304- 385-498	-49 34-41-49-53 32-42-49				
Sound Pressure Level at Cooling	34-41-49-53	32-42-49									
	External Finish Color					Munsell No. 1.0Y 9.:	2 / 0.2				
		W: In.	31-7/16				43-5/16		1/16		
	Dimension Unit	D: In.	9-1/8				9-3/8 11-5/8		-5/8		
		H: In.	11-5/8				12-13/16	14-3/8			
	Weight Unit	Lbs.	22				37		10		
	Field Drainpipe Size O.D.	ln.				5/8					
	MCA	Α	12			14	17.1	21			
	MOCP	Α	15		15		20	2	25		
	Fan Motor	F.L.A.		0.50				0.93			
		Model (Type)	DC INVERT	ΓER-driven		DC INVERTER-driven Twin Rotary					
	Compressor	R.L.A.	4	.9	6.8	10.0 12.9		1	6		
		L.R.A.	6	.1	8.5	12.5	16.1	2	20		
Outdoor Unit	Airflow (Cooling)	CFM	1,151	1,229	1,243	1,730	1,769	1,9	941		
Outdoor Offic	Refrigerant Control	•				Linear Expansion \	/alve				
	Sound Pressure Level at Cooling *1	dB(A)	46		49	54 55			56		
	External Finish Color	•			Munsell No. 3Y 7.8 / 1.1						
		W: In.		31-1/2			33	3-1/16			
	Dimensions	D: In.		11-1/4		13	13	1	3		
		H: In.		21-5/8		33-7/16	34-5/8	33-	7/16		
	Weight	Lbs.	66	77	80	1	19	1:	26		
Remote Controller	Туре	1				Remote (Optional W		-			
	Туре					R410A					
Refrigerant	Charge	Lbs., 0z.	1, 12	2	2, 9	3, 7	4, 3	4	, 1		
gorant	Oil	Type (fl. oz.)	NE022	2 (10.8)	NE022	2 (15.2) FV50S (0.40)		NE022	2 (29.5)		
	Gas Side O.D.	In.	3	/8	1.	/2	5/8				
Refrigerant Pipe	Liquid Side O.D.	In.		/4	 	1/2 5/8 1/4 3/8					
Refrigerant Pipe	Height Difference (Max.)	Ft.	· ·	40		-		50			
Length	Length (Max.)	Ft.		65							
Connection Method	Indoor/Outdoor	116				 Flared/Flared	d/Flared				
ne::::100		attaooi i i ita ca/i ii									

NOTES: Test conditions are based on AHRI 210/240.

Specifications are subject to change without notice.

 $\label{limited warranty on compressor. Five-year warranty on parts. } \\$

^{*1.} Rating conditions (cooling) - Indoor D.B. 80° F (27° C), W.B. 67° F (19° C); Outdoor: D.B. 95° F (35° C), W.B. 75° F (24° C). *2. Indoor units receive power from outdoor units through field-supplied interconnected wiring.



(MSZ-FE12NA MODEL SHOWN)

MSZ HEAT PUMP









			ENERGY STAR CREDIT	ENERGY STAR CREDIT	ENERGY STAR CREDIT	ENERGY STAR CREDIT	ENERGY STAR CREDIT	
Model Name	Indoor Unit		MSZ-GE09NA	MSZ-FE09NA	MSZ-GE12NA	MSZ-FE12NA	MSZ-GE15NA	
Model Name	Outdoor Unit		MUZ-GE09NA	MUZ-FE09NA	MUZ-GE12NA	MUZ-FE12NA	MUZ-GE15NA	
	Rated Capacity	Btu/h	9,000	9,000	12,000	12,000	14,000	
	Capacity Range	Btu/h	3,800-12,200	2,800-9,000	3,800-13,600	2,800-12,000	3,100-18,200	
	Total Input	w	660 (205-1,200)	580 (160-650)	960 (205-1,300)	930 (160-960)	1,080 (160-2,000	
Cooling *1	Energy Efficiency	SEER	21	26	20.5	23	21	
						<u> </u>		
	Moisture Removal	Pints/h	1.5	2.1	2.5	2.9	2.7	
	Sensible Heat Factor	D4/h	0.82	0.76	0.74	0.73	0.80	
	Rated Capacity	Btu/h	10,900	10,900	14,400	13,600	18,000	
leating at 47° F *2	Capacity Range	Btu/h W	4,500-14,100	3,000-18,000	5,500-18,100	3,000-21,000 950 (150-2,250)	4,800-20,900	
	Total Input HSPF (IV)		760 (255-1,200)	710 (150-2,250)	1,170 (340-1,660)	, , ,	1,600 (270-2,010	
	1 7 7	Btu/h/W	6 600	10 6,700	0.000	10.6	10	
locting at 170 E *9	Rated Capacity	Btu/h W	6,600 700	650	8,800 900	8,300	-	
leating at 17° F *3	Rated Total Input	Btu/h	8,700	12,500		800 13,600	1,150	
leating at 5° F	Maximum Capacity Maximum Capacity	Btu/h	7,061	10,900	11,200 9.194	12,500	15,900 13,022	
ower Supply	Phase, Cycle, Voltage	Dtu/II	7,001	· · · · · · · · · · · · · · · · · · ·	phase, 60Hz, 208 / 230V *		13,022	
ower supply	Indoor - Outdoor S1 - S2				AC 208 / 230V	4		
/oltage	Indoor - Outdoor S2 - S3				DC12-24V			
ulaye				Wireless Tu		or: DC 10\/\		
	Indoor - Remote Controller MCA	Α		wireless typ	oe (Optional Wired Controll 1.0	er: DC 12V)		
	Fan Motor	F.L.A.			0.76			
			145 170 007 001 000	162-226-339-381	145-170-237-321-399	160 006 001 410	205 272 225 420 5	
	Airflow at Cooling (Lo-Med-Hi-Super HI-Powerful) *1	DRY (CFM)	145-170-237-321-399			162-226-381-410	205-272-335-420-5	
	· · · · · · · · · · · · · · · · · · ·	WET (CFM)	109-134-201-286-364	144-202-307-343	109-134-201-286-364	144-202-350-367	170-237-300-385-4	
	Airflow at Heating (Lo-Med-Hi-Super HI-Powerful) *2	WET (CFM)	145-170-237-321-406	166-240-367-381	145-170-237-321-406	166-240-399-420	205-247-304-367-46	
ndoor Unit	Sound Pressure Level at Cooling (Lo- Med-Hi-Super HI-Powerful) *1	dB(A)	19-22-30-37-43	22-31-39-42	19-22-30-37-45	22-33-43-45	26-32-38-44-49	
ndoor ome	Sound Pressure Level at Heating (Lo-Med-Hi-Super HI-Powerful) *2	dB(A)	19-22-30-37-43	22-31-40-42	19-22-30-37-43	22-33-43-44	26-30-35-40-46	
	External Finish Color				Munsell No. 1.0Y 9.2 / 0.2			
		W: In.	31-7/16	31-3/8	31-7/16	31-3/8	31-7/16	
	Dimension Unit	D: In.	9-1/8	10-1/8	9-1/8	10-1/8	9-1/8	
		H: In.			11-5/8			
	Weight Unit	Lbs.	22	27	27	22		
	Field Drainpipe Size O.D.	In.			5/8			
	MCA	Α			12			
	MOCP	Α			15			
	Fan Motor	F.L.A.	0.50	0.56	0.50	0.56	0.50	
		Model (Type)	DC INVERTER-driven	DC INVERTER-driven Twin Rotary	DC INVERTER-driven	DC INVERTER-dr	iven Twin Rotary	
	Compressor	R.L.A.	6.6	8.6	6.6	8.6	7.4	
		L.R.A.	8.2	10.8	8.2	10.8	9.3	
	Airflow (Cooling/Heating)	CFM	1,151 / 1,225	1,102 / 1,187	1,229 / 1,172	1,102 / 1,187	1,243 / 1,229	
utdoor Unit	Refrigerant Control				Linear Expansion Valve			
	Defrost Method				Reverse Cycle			
	Sound Pressure Level at Cooling *1	dB(A)	46	48	49	48	49	
	Sound Pressure Level at Heating *2	dB(A)	50	49	51	49	51	
	External Finish Color	1			Munsell No. 3Y 7.8 / 1.1	1.		
		W: In.			31-1/2			
	Dimensions	D: In.			11-1/4			
		H: In.			21-5/8			
	Weight Lbs.		21-5/8					
emote Controller	Ť	LDO.		l .	Remote (Optional Wired Co		<u> </u>	
emote contituitei	Туре			wiieless		JIII Olici)		
-6-1	Type	lho O-	R410A					
efrigerant	Charge	Lbs., Oz.	1, 12			, 9	NEGOG (15 5)	
	Oil	Type (fl. oz.)		NE022			NE022 (15.2)	
efrigerant Pipe	Gas Side O.D.	ln.		3/			1/2	
J	Liquid Side O.D.	ln.		1/			1/4	
efrigerant Pipe Length	Height Difference (Max.)	Ft.			40			
	Length (Max.)	Ft.			65			
	Indoor/Outdoor				Flared/Flared			

NOTES: Test conditions are based on AHRI 210/240.

- *1. Rating conditions (cooling)-Indoor: D.B. 80° F (27° C), W.B. 67° F (19° C); Outdoor: D.B. 95° F (35° C), W.B. 75° F (24° C).
 *2. Rating conditions (heating)-Indoor: D.B. 70° F (21° C), W.B. 60° F (16° C); Outdoor: D.B. 47° F (8° C), W.B. 43° F (6° C).
 *3. Rating conditions (heating)-Indoor: D.B. 70° F (21° C), W.B. 60° F (16° C); Outdoor: D.B. 17° F (-8° C), W.B. 15° F (-9° C).

- *4. Indoor units receive power from outdoor units through field-supplied interconnected wiring.
- Specifications are subject to change without notice.









MSZ HEAT PUMP (CONT.)

TAX



				ENERGY STAR CREDIT	ENERGY STAR CREDIT			
Model News	Indoor Unit		MSZ-GE18NA	MSZ-FE18NA	MSZ-GE24NA	MSZ-D30NA	MSZ-D36NA	
Model Name	Outdoor Unit	MUZ-GE18NA	MUZ-FE18NA	MUZ-GE24NA	MUZ-D30NA	MUZ-D36NA		
	Rated Capacity	Btu/h	17,200	18,000	22,500	30,700	33,200	
	Capacity Range	Btu/h	3,700-18,700	8,200-25,200	8,200-31,400	9,800-30,700	9,800-33,200	
Cooling *1	Total Input	W	1,640 (240-2,070)	1,270 (570-2,280)	1,800 (570- 3,580)	3,850 (620-3,850)	4,360 (620-4,360)	
Cooling *1	Energy Efficiency	SEER	19.2	20.2	19.0	14	l.5	
	Moisture Removal	Pints/h	4.6	2.7	2.7	9.9	11.3	
	Sensible Heat Factor		0.71	0.84	0.75	0.64	0.62	
	Rated Capacity	Btu/h	21,600	21,600	27,600	32,600	35,200	
Heating at 47° F *2	Capacity Range	Btu/h	3,500-25,200	7,500-29,700	7,500-36,900	8,700-34,000	8,700-36,000	
Heating at 47° F 2	Total Input	W	1,900 (230-2,680)	1,540 (520-2,240)	2,340 (520- 3,650)	3,360 (520-3,600)	3,840 (520-4,100)	
	HSPF (Region IV)	Btu/h/W	10	10.3	10	8.	.2	
	Rated Capacity	Btu/h	13,400	11,700	16,000	19,500	21,800	
Heating at 17° F *3	Total Input	W	1,450	1,240	3,290	2,400	2,820	
	Maximum Capacity	Btu/h	17,200	19,300	24,600	20,800	22,800	
Heating at 5° F	Maximum Capacity	Btu/h	13,562	21,600	21,160	16,305	19,090	
D 0 l	· · · ·	Bta/11	10,502	,	L		10,000	
Power Supply	Phase, Cycle, Voltage Indoor - Outdoor S1-S2				e, 60Hz, 208/230V *4 AC 208 / 230V			
Voltage	Indoor - Outdoor S2-S3				DC12-24			
	Indoor - Remote Controller			Wireless Type (Op	tional Wired Controll	er: DC12V)		
	MCA	A F.L.A.			1.0			
	Fan Motor	DRY (CFM)	230-275-339-420-533	388-469-628-738	0.76	200.6	00.040	
	Airflow (Cool) (Lo-Med-Hi-Super HI-Powerful) *1				388-469-628-738	389-63		
	A' flac (Haal) (La Madell' Occasill Decor f I) to	WET (CFM)	194-240-304-385-498	347-420-562-661	347-420-562-661		76-763	
	Airflow (Heat) (Lo-Med-Hi-Super HI-Powerful) *2 Sound Pressure Level (Cooling) (Lo-Med-Hi-Super	DRY (CFM)	230-275-339-431-512	388-469-628-738	388-469-628-738		39-848	
	HI-Powerful) *1	15(4)	28-33-38-44-49	34-41-49-53	34-41-49-53	32-4	2-49	
Indoor Unit	Sound Pressure Level (Heating) (Lo-Med-Hi-Super HI-Powerful) *2	dB(A)	28-33-38-43-48	32-41-49-52	32-41-49-52	34-42-	-49-49	
	External Finish Color		Muns	ell No. 1.0Y 9.2/0.2				
		W: In.	31-7/16	43-5	5/16	46-1	1/16	
	Dimension Unit	D: In.	9-1/8	9-3/8 11-5/		5/8		
		H: In.	11-5/8	12-1	3/16	14-	3/8	
	Weight Unit	Lbs.	22	3	7	4	0	
	Field Drainpipe Size O.D.	In.			5/8			
	MCA	Α	14	17	.1	2	1	
	MOCP	Α	15	2	0	2	5	
	Fan Motor	F.L.A.	0.93					
		Model (Type)	DC INVERTER-driven Twin Rotary					
	Compressor	R.L.A.	10.0	12	.9	16		
		L.R.A.	12.5	16.1		20		
	Airflow	CFM	1,730 / 1,659 1,769 / 1,701 1,941					
Outdoor Unit	Refrigerant Control		Linear Expansion Valve					
	Defrost Method	15(4)	Reverse Cycle					
	Sound Pressure Level at Cooling *1	dB(A)	54		55		56	
	Sound Pressure Level at Heating *2 External Finish Color	dB(A)	56 55 57 Munsell No. 3Y 7.8/1.1					
	External Finish Color	W: In.		IVIUIT	33-1/16			
	Dimensions	D: In.			13			
	Dimensions	H: In.	33-7/16	34-		20.	7/16	
	Maight		33-1/10	119	J/ U	 		
Remote Controller	Weight Type	Lbs.			te (Optional Wired Co	ntroller)	+1	
Tiomote Controller				vviidicəs i idilio		- Intolicij		
5.4	Type				R410A			
Refrigerant	Charge	Lbs., Oz.	3, 7	4,			10	
	Oil	Type (Fl. Oz.)	NE022 (15.2)	FV50S		NE02	2 (29)	
	Gas Side O.D.	ln.	1/2		5/8			
Refrigerant Pipe	Liquid Side O.D.	•	1/4		3/8			
3: 	Height Difference (Max.)	Ft.			50			
Connection	Length (Max.)				100			
Method	Indoor/Outdoor				Flared/Flared			

NOTES: Test conditions are based on AHRI 210/240.

- *1. Rating conditions (cooling)-Indoor: D.B. 80° F (27° C), W.B. 67° F (19° C); Outdoor: D.B. 95° F (35° C), W.B. 75° F (24° C).
 *2. Rating conditions (heating)-Indoor: D.B. 70° F (21° C), W.B. 60° F (16° C); Outdoor: D.B. 47° F (8° C), W.B. 43° F (6° C).
 *3. Rating conditions (heating)-Indoor: D.B. 70° F (21° C), W.B. 60° F (16° C); Outdoor: D.B. 17° F (-8° C), W.B. 15° F (-9° C).
 *4. Indoor units receive power from outdoor units through field-supplied interconnected wiring.



(SEZ-KD12NA MODEL SHOWN)







SEZ HEAT PUMP









			ENERGY STAR	ENERGY STAR CREDIT	ENERGY STAR	ENERGY STAR CREDI
MadalAlawa	Indoor Unit		SEZ-KD09NA4	SEZ-KD12NA4	SEZ-KD15NA4	SEZ-KD18NA
Model Name	Outdoor Unit		SUZ-KA09NA	SUZ-KA12NA	SUZ-KA15NA	SUZ-KA18NA
	Rated Capacity	Btu/h	8,100	11,500	14,100	17,200
	Capacity Range	Btu/h	3,800-10,900	3,800-13,300	3,800-17,000	3,800-19,000
	Total Input	W	670	920	1,170	1,380
Cooling *1	· ·	SEER		-	· ·	
	Energy Efficiency Moisture Removal	Pints/h	15 1.5	16 2.4	15.5 2.6	17.5 3.4
	Sensible Heat Factor	FIIIIS/II	0.80	0.76	0.80	0.79
		Dt/b	10,900	13,600	18,000	
	Rated Capacity	Btu/h Btu/h	,	,	,	21,600 4,800-24,900
Heating at 47° F *2	Capacity Range	W Btu/fi	4,800-14,100	4,800-16,400	4,800-21,100	1,700
	Total Input HSPF (IV)	Btu/h/W	1,020	1,140	1,500 0.0	1,700
	Rated Capacity	Btu/h	6,700	9,000	11,900	13,100
Heating at 17° F *3	Rated Total Input	W	810	920	1,200	1,350
leating at 17 1 3	Maximum Capacity	Btu/h	7,300	9,800	13,700	15,000
Power Supply	Phase, Cycle, Voltage	Dtu/II	7,300		z, 208 / 230V *4	15,000
- Ower Supply	Indoor - Outdoor S1 - S2				8-230V	
/oltage	Indoor - Outdoor S1 - S2			2-24V		
701tage	Indoor - Remote Controller	800.0	optional accessor		and 27)	
	MCA	Α	366 (ies chart (pg 26 a	41U Z1)
	Fan Motor	F.L.A.	0.51	0.57	i .	.74
	T ATT MOTOR	DRY (CFM)	194-247-317	247-317-388	353-441-529	423-529-635
	Airflow (Lo-Med-Hi)	· · · ·		-		-
	F. t 1 Otatia D	WET (CFM)	174-222-285	222-285-349	317-396-476	381-476-572
	External Static Pressure *3	In. W.G.	00.06.00		-0.14-0.20	20.24.20
ndoor Unit	Sound Pressure Level	dB(A)	23-26-30	23-28-33	30-34-37	30-34-38
	External Finish	1147.1	04.4/0	1	Steel Sheets	40.7/0
		W: In.	31-1/8		9	46-7/8
	Dimension Unit	D: In.			9/16	
		H: In.		1	7/8	
	Weight Unit	Lbs.	42	50	54	62
	Field Drainpipe Size O.D.	In.			1/4	
	MCA	Α		12		14
	MOCP	A			15	
	Fan Motor	F.L.A.			0.93	
		Model	DC Inverter		DC Inverte	r Twin Rotary
	Compressor	(Type)	6.6			
	·	R.L.A.			7.4	10
	11.0	L.R.A.		.2	9.3	12.5 1,730/1,659
	Airflow (Cooling/Heating)	CFM	1,151/1,225	, ,	1,229/1,172 1,243/1,229	
Outdoor Unit	Refrigerant Control	Linear Expansion Valve				
	Defrost Method			1	se Cycle	1
	Sound Pressure Level at Cooling *1	dB(A)	46	1	.9	54
	Sound Pressure Level at Heating *2	dB(A)	50		i1	56
	External Finish Color				o. 3Y 7.8/1.1	
		W: In.		31-1/2	-	33-1/6
	Dimensions	D: In.		11-1/4		13
		H: In.		21-5/8		33-7/16
	Weight	Lbs.	66	77	80	119
Remote Controller	Туре	,	See o	ptional accessor	ies chart (pg 26 a	and 27)
	Туре			•	10A	,
Defidence of	Charge	Lbs., Oz.	1, 16		9	3, 16
Refrigerant		Type (fl.				
	Oil	oz.)	NEO22 (10.8) NEO2			
Refrigerant Pipe	Gas Side O.D.	ln.	3.	/8		1/2
	Liquid Side O.D.	ln.			/4	T
Refrigerant Pipe	Height Difference (Max.)	Ft.		40		50
Length	Length (Max.)	Ft.		65		100
Connection Method	Indoor/Outdoor			Flared	l/Flared	

- NOTES: Test conditions are based on AHRI 210/240.

 *1. Rating conditions (cooling)-Indoor: D.B. 80° F (27° C), W.B. 67° F (19° C); Outdoor: D.B. 95° F (35° C), W.B. 75° F (24° C).

 *2. Rating conditions (heating)-Indoor: D.B. 70° F (21° C), W.B. 60° F (16° C); Outdoor: D.B. 47° F (8° C), W.B. 43° F (6° C).

 *3. Rating conditions (heating)-Indoor: D.B. 70° F (21° C), W.B. 60° F (16° C); Outdoor: D.B. 17° F (-8° C), W.B. 15° F (-9° C).

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

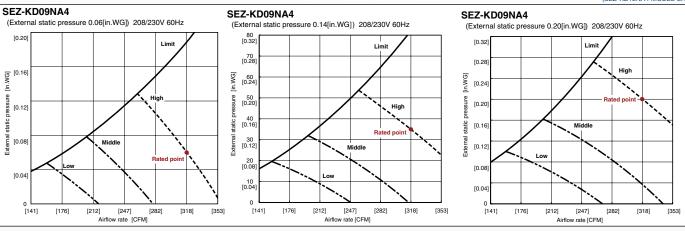
 Specifications are subject to change without notice.

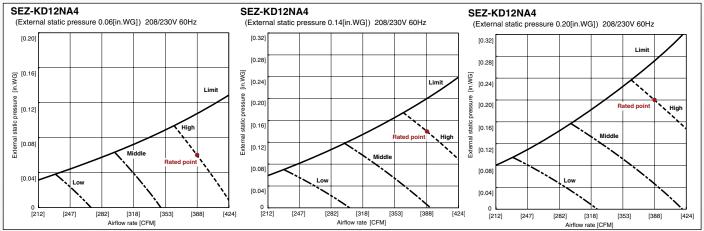
LIMITED WARRANTY | Seven-year warranty on compressor. Five-year warranty on parts.

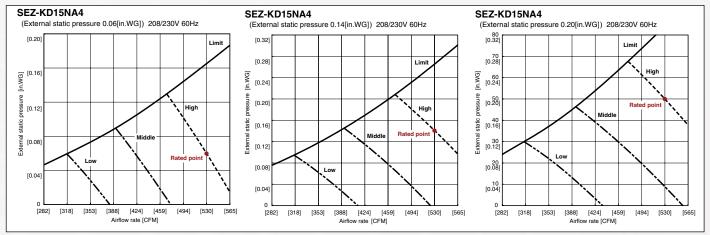
SEZ STATIC PERFORMANCE CURVES

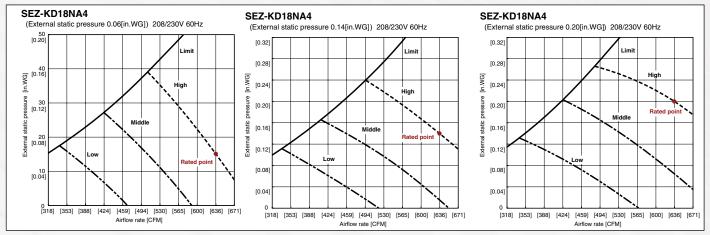












Note: ESP @ 208/230V, 60 Hz. See manual for Static Performance Curve, including @ 0.02 in W.G.



SLZ HEAT PUMP







(SLZ-KA12NA MODEL SHOWN)





			ENERGY STAN	ENERGYSIAN		
Model Name	Indoor Unit		SLZ-KA09NA	SLZ-KA12NA	SLZ-KA15NA	
model name	Outdoor Unit		SUZ-KA09NA	SUZ-KA12NA	SUZ-KA15NA	
	Rated Capacity	Btu/h	8,400	11,100	15,000	
	Capacity Range	Btu/h	3,100-10,900	3,100-13,300	3,100-22,200	
Cooling *1	Total Input	W	700	920	1,460	
Cooling	Energy Efficiency	SEER	15	15.4	16	
	Moisture Removal	Pints/h	1.2	2.3	4.5	
	Sensible Heat Factor		0.80	0.76	0.80	
	Rated Capacity	Btu/h	10,900	13,600	18,000	
Heating at 47° F *2	Capacity Range	Btu/h	3,100-14,100	3,100-17,100	3,100-17,100	
rieating at 47 1 2	Total Input	W	930	1,180	1,950	
	HSPF (IV)	Btu/h/W		9.6		
	Rated Capacity	Btu/h	6,200	8,300	10,200	
Heating at 17° F *3	Rated Total Input	W	740	930	1,310	
	Maximum Capacity	Btu/h	8,300	10,200	12,000	
Power Supply	Phase, Cycle, Voltage 1 Phase, 60Hz, 208 / 230V *4					
	Indoor - Outdoor S1 - S2			AC 208-230V		
Voltage	Indoor - Outdoor S2 - S3			DC 12-24V		
	Indoor - Remote Controller		See optio	onal accessories chart (pg 26 and 27)	
	MCA	Α		1		
	Fan Motor	F.L.A.	0.23	0.28	0.28	
	Airflow (Lo-Med-Hi)	DRY (CFM)	280-320-350	280-320-390	280-320-390	
	All now (Lo-ivied-11)	WET (CFM)	250-290-320	250-290-350	250-290-350	
	Sound Pressure Level	dB(A)	29-32-38	30-34-39	31-35-40	
Indoor Unit	External Finish	Galvanized-Ste	eel Sheets; Grille: M	lunsell 6.4Y 8.9/0.4		
		W: In.		22-7/16 (25-5/8	()	
	Dimension Unit (Grille)	D: In.		22-7/16 (25-5/8)	
		H: In.		8-3/16 (13/16)		
	Weight Unit (Grille)	36 (7)				
	Field Drainpipe Size O.D.	In.	1-1/4			
	MCA	12				
	MOCP	Α	15 0.50			
	Fan Motor	F.L.A.				
	0	Model (Type)	DC INVERTER-driven		DC INVERTER-driven Twin Rotary	
	Compressor	R.L.A.	6.6		7.4	
		L.R.A.	8.2		9.3	
	Airflow (Cooling/Heating)	CFM	1,151/1,225	1,229/1,172	1,243/1,229	
Outdoor Unit	Refrigerant Control		Linear Expansion Valve			
	Defrost Method		Reverse Cycle			
	Sound Pressure Level at Cooling *1	dB(A)	46		49	
	Sound Pressure Level at Heating *2	dB(A)	50	50 51		
	External Finish Color		Munsell No. 3Y 7.8/1.1			
		W: In.		31-1/2		
	Dimensions	D: In.		11-1/4		
		H: In.		21-5/8		
	Weight	Lbs.			80	
	Type	LDS.	00	R410A	00	
Refrigerant	Charge	Lbs., Oz.	1, 16	11410/1	2, 9	
. ionigorani	Oil	Type (fl. oz.)	1, 10 NEO22	(10.8)	NEO22 (15.2)	
	Gas Side O.D.	In.	3/		1/2	
Refrigerant Pipe	Liquid Side O.D.	In.	3/	1/4	1/2	
	Height Difference (Max.)	Ft.		40		
Refrigerant Pipe Length	` ,					
Connection M-H	Length (Max.)	Ft.		65		
Connection Method	Indoor/Outdoor			Flared/Flared		

LIMITED WARRANTY | Seven-year warranty on compressor. Five-year warranty on parts.

NOTES: Test conditions are based on AHRI 210/240.

*1. Rating conditions (cooling)-Indoor: D.B. 80° F (27° C), W.B. 67° F (19° C); Outdoor: D.B. 95° F (35° C), W.B. 75° F (24° C).

*2. Rating conditions (heating)-Indoor: D.B. 70° F (21° C), W.B. 60° F (16° C); Outdoor: D.B. 47° F (8° C), W.B. 43° F (6° C).

*3. Rating conditions (heating)-Indoor: D.B. 70° F (21° C), W.B. 60° F (16° C); Outdoor: D.B. 17° F (-8° C), W.B. 15° F (-9° C).

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

Specifications are subject to change without notice.

MHK1 WIRELESS REMOTE CONTROLLER KIT

Exclusive for INVERTER-driven Mr. Slim® Systems*







MRCH1 WIRELESS REMOTE CONTROLLER

- Backlit, easy-to-read display
- Dual setpoint control with system changeover
- Enabled with RedLINK™ reliability
- Compatible with MCCH1 Portable Central Controller
- Installs Anywhere

MIFH1 WIRELESS RECEIVER

- Required for MRCH1 Wireless Remote Controller
- Enabled with RedLINK reliability

Wireless Receiver						
Function	Description					
ON/OFF	On/Off operation for a single indoor unit					
Operation Mode	Cool / Drying / Auto / Heat / Fan only Available operation modes dependant on connected system.					
Temperature Setting	Set temperature from 50°F – 87°F depending on operation mode and connected system					
System Changeover Deadband Value	2-8°F					
Schedule Operation	5-2, 5-1-1					
Fan Speed Setting	Hi/Mid-2/Mid-1/Low/Auto Available fan speed settings dependant on connected system.					
Air Flow Direction Setting	Air flow angles: 100° - 80° - 60° - 40° and oscilate Available air flow direction settings dependant on connected system.					
Permit/Prohibit Function	Individual prohibit operations for each remote controller function (ON/OFF, Set Temperature, and Operation Mode).					
Space Temperature	Displays the measured space temperature.					
Error Indication	Displays error code.					
Display Outside Temperature and Humidity	Requires optional MOS1 Outside Air Sensor					
Dimensions - (W x D x H)	Remote Controller: 5-3/16" x 1-1/2" x 3-9/16" Receiver: 3-1/4" x 1-5/16" x 6-7/16"					
Operating Ambient Temperature	Remote Controller: 32 - 120°F Receiver: -40 - 165°F					
Operating Ambient Humidity	Remote Controller: 5% - 90% RH (non-condensing) Receiver: 5% - 90% RH (non-condensing)					
Power Supply	2 AA batteries					

MHK1 Kit includes

MRCH1 Wireless Wall-Mounted Remote Controllers

MIFH1 Wireless Receiver

MRC1 Cable

Accessories

MCCH1 Portable Central Controllers

MOS1 Outside Air Sensor

♣MITSUBISHI ELECTRIC 17

* SEZ-4 and SLZ 1:1 systems with SUZ outdoor unit

MULTIPLE ROOMS WITH INDIVIDUAL CONTROL FROM A SINGLE SYSTEM

Enjoy ideal levels of comfort in the rooms you use most with our multi-room system. Each room (zone) operates independently. People in different rooms - the kitchen, master bedroom, or living room - can enjoy temperature settings that make each of them most comfortable.

If you're looking for a complete comfort solution for several different rooms, the MXZ multi-room system is the right choice. The system is flexible enough to conform to a particular cooling and heating need and offers numerous different indoor unit combinations. In addition, up to eight indoor units can be connected to one outdoor unit. Now with a SEZ horizontal ducted unit and a MFZ floorstanding unit homeowners can enjoy an even greater range of zoning options provided by an MXZ system.

An MXZ multi-room system is an excellent choice for supplementing capacity to a current system, conditioning newly furnished spaces, or new additions and replacing a system within a home. Homeowners can also benefit from lower energy costs year-round while staying comfortable thanks to Mitsubishi Electric's energy-efficient technologies that are a part of every system that we make.

To add to the level of energy efficiency, the MXZ-2B20NA and MXZ-3B24NA systems qualify for both ENERGY STAR® and the federal tax credit (See details on page 21 for applicable indoor unit combinations).

At right: a single level home with several system types represented.

(For illustrative purposes only)

SEZ Indoor Unit

MXZ Outdoor Unit

MFZ Floor-Standing Indoor Units for MXZ Heat Pump Systems

Floor-standing indoor unit mounts on floor or on wall up to 5" above floor and has front panel access to the filter for ease of cleaning.

The MFZ units provide energy-efficient solutions to provide personalized comfort for difficult areas that may be smaller or don't have usable space on the walls.

MFZ units on MXZ systems include the following features:

- Top and bottom discharge vanes
- Hot-start technology
- Quiet operation
- · Wireless remote control (optional wall-mounted controller)



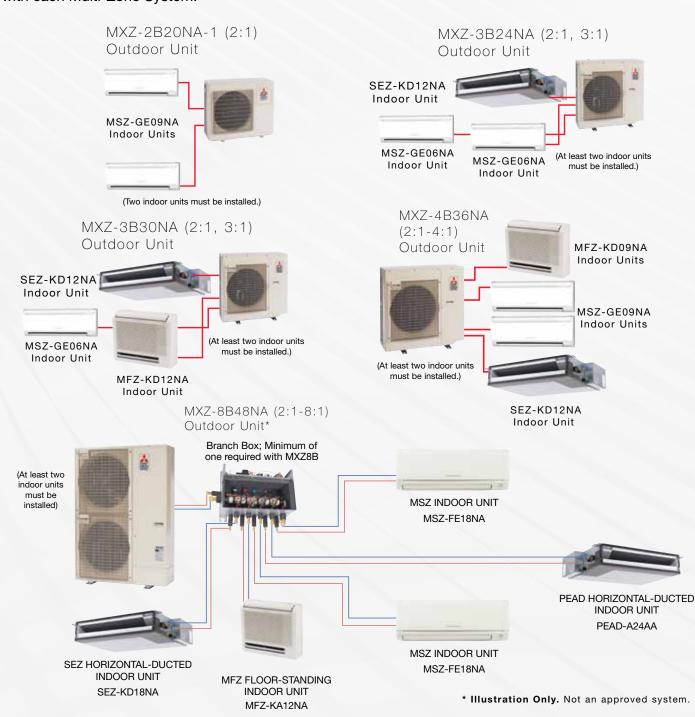
MSZ Wall-Mounted Indoor Units for MXZ Heat Pump Systems Providing a wide range of cooling and heating capacities, each wall-mounted indoor unit mounts high on a wall and connects to a branch box or the outdoor unit by a refrigerant line run via a 3" hole. The MSZ units provide highly efficient solutions to cooling and heating needs and provide personalized comfort for the individual zones in which they are installed. MSZ units on MXZ systems include the following features: • Sleek, flat panel design Hot-start technology Quiet operation • i-see[™] sensor technology (MSZ-FE09/12NA models only) • Enhanced filtration system (MSZ-FE09/12NA models only) · Wireless remote control (optional wired wall-mounted controller) MSZ Indoor Unit SLZ Ceiling-Recessed Indoor MUZ Outdoor Unit Units for MXZ Heat Pump Systems The new SLZ-KA ceiling casette systems offer a wide air-flow pattern for better air distribution offered to your customers. Installation can be done in a hard ceiling (with a access panel for servicing) or placed into a 2x2' drop ceiling. With a built-in drain lift mechanism for condensate removal and a 4" ventilation air intake knockout option the SLZ is ready to handle a variety of installation needs. SLZ units on MXZ systems include the following features: • Wide air-flow pattern for better air distibution • 4" ventillation air intake knockout • Built-in condensate lift mechanism SEZ Horizontal Ducted Indoor Units for MXZ Heat Pump Systems SEZ ducted units can provide split air-conditioning system advantages with the added benefit of being concealed to provide virtually no visual footprint within the conditioned space other than a register and grille for the air to flow. With the use of short run ductwork, these units can provide comfort to a single room that needs air dispersed evenly throughout the space, unusually shaped rooms, and adjacent rooms. The SEZ unit on MXZ systems include the following features: · Concealed design for short-run ductwork Quiet operation · Built-in condensate lift mechanism

DIAMOND COMFORT MXZ MULTI-ZONE SYSTEMS

MXZ-B Series multi-zone systems provide personalized comfort control and energy efficiency in up to eight rooms with only a single outdoor unit. The MXZ-B Series system features include:

- 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
- Efficient systems, including three systems [MXZ series] that meet energy star® and federal tax credit requirements
- Simple, quick, and cost-effective installation keeps install costs down on new construction, and disruption to a minimum on renovations and refits

Efficiency and performance ratings depend on the number, style, and capacity of the indoor units installed with each Multi-Zone System.



MULTI-ROOM MXZ-B INVERTER HEAT PUMP INVERTER





Model	Name	Outdoor Unit		MXZ-2B20NA-1 *5	MXZ-3B24NA *6	MXZ-3B30NA	MXZ-4B36NA *7	
	Cooling *1	Rated Capacity	Btu/h	18,000/20,000	22,000/23,600	28,400/27,400	35,400/34,400	
	Non-ducted/	Capacity Range	Btu/h	7,800-20,000	12,600-25,500	12,600-28,400	12,600-36,400	
	Ducted	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)	
	Heating at	Rated Capacity	Btu/h	22,000/22,000	25,000/24,600	28,600/27,600	36,000/34,400	
	47° F *2	Capacity Range	Btu/h	8,500-25,500	11,400-30,600	11,400-36,000	11,400-43,000	
Indoor Unit	Non-ducted/ Ducted	Total Input	W	2,620 (520-2,620)	1,900 (740-2,600)	2,220 (740-2,820)	3,100 (740-3,940)	
	Heating at	Rated Capacity	Btu/h	12,500/12,500	14,000/14,000	16,000/15,100	22,200/20,300	
	17° F *3	Rated Total Input	W	1,350/1,430	1,380/1,570	2,120/2,140	2,430/2,340	
	Non-ducted/	Maximum Capacity	Btu/h	14,500/14,500	18,800/17,000	18,800/18,000	24,600/25,400	
	Ducted	Maximum Total Input	W	1,500/1,590	2,120/2,230	2,120/2,140	3,340/3,450	
Power Supply	•	Phase, Cycle, Voltage	•		1-phase, 60Hz	, 208 / 230V *8	•	
\/-!!		Indoor - Outdoor S1 - S2			AC 208	/ 230V		
Voltage		Indoor - Outdoor S2 - S3			DC12	2-24V		
		MCA	Α		15		19	
		MOCP	Α		2	0		
		Fan Motor	F.L.A.	0.96		0.93		
			Model (Type)	DC INVERTER-driven Twin Rotary				
		Compressor	R.L.A.	10.1				
			L.R.A.	15				
		Airflow (Cooling/Heating)	CFM	1,485/1,640	2,068/1,605	1,365/1,605	2,068/2,068	
		Refrigerant Control			Linear Expa	nsion Valve		
Outdoor Unit ³	4	Defrost Method		Reverse Cycle				
		Sound Pressure Level at Cooling *1	dB(A)	49	54	49	54	
		Sound Pressure Level at Heating *2	dB(A)	51 49 57				
		External Finish Color		Munsell No. 3.0Y 7.8 / 1.1				
			W: In.	33-1/16		35-7/16		
		Dimensions	D: In.	13		12-5/8		
			H: In.	27-15/16		35-7/16		
		Weight	Lbs.	130	15	50	153	
Indoor Unit		No. of Units		2	2, 3	2, 3	2, 3, 4	
Remote Contr	oller	Туре			Associated with	the Indoor Unit		
		Туре	,		R4	10A		
Refrigerant		Charge	Lbs., Oz.	5, 15	7,	11	8, 13	
rionigorani		Oil	Type (fl. oz.)	NEO22 (23.7)		NEO22 (29.4)		
Refrigerant Pi		Gas Side O.D.	ln.	A,B: 3/8	A: 1/2; I	3,C: 3/8	A: 1/2; B,C,D: 3/8	
nemgerani Pi		Liquid Side O.D.	ln.		1,	/4		
		Height Difference (Max.)	Ft.		49/3	3 *9		
Refrigerant Pip	e Length	Lineset length for each individual indoor unit (Max.)	Ft.		8	2		
		Length (Max.)	Ft.	164 (A+B)	230 (A	+B+C)	230 (A+B+C+D)	
Connection M	ethod	Indoor/Outdoor			Flared	/Flared	·	

^{*}Compatible with the MSZ-A, MSZ-GA, MSZ-FD, MSZ-FE, MSZ-GE, MFZ-KA and SEZ-KD series indoor units (PLA-18 & PCA-24 on the MXZ-MXZ-3B / PLA-24 & PCA-24 on the MXZ-4B)

NOTES: Test conditions are based on AHRI 210/240. 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); Outdoor: D.B. 95° F (35° C), W.B. 75° F (24° C).
- *2. Rating conditions (heating)-Indoor: D.B. 70° F (21° C), W.B. 60° F (16° C); Outdoor: D.B. 47° F (8° C), W.B. 43° F (6° C).
- *3. Rating conditions (heating)-Indoor: D.B. 70° F (21° C), W.B. 60° F (16° C); Outdoor: D.B. 17° F (-8° C), W.B. 15° F (-9° C).
- *4. Refer to pages 12 and 13 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 percent.

Specifications are subject to change without notice.

MULTI-ZONE ENERGY STAR AND TAX CREDIT SYSTEMS

Model	Indoor Unit Combinations	SEER	HSPF
MXZ-2B20NA-1	2 x MSZ-GE09NA	18	8.9
MXZ-3B24NA	2 x MSZ-GE06NA 1 x MSZ-GE09NA	17.5	9.3
MXZ-3B24NA	2 x MSZ-GE06NA 1 x MSZ-GE12NA	17.5	9.3



For more details on all ENERGY STAR and tax credit systems go to www.mitsubishicomfort.com/taxcredit

See page 25 for additional info on efficiency.

MXZ-8B48NA: THE ULTIMATE ZONING SOLUTION

The Mitsubishi Electric MXZ-8B48NA eight-zone unit. As a member of the expanding MXZ-B Series of multi-zone systems. the MXZ-8B outdoor unit incorporates branch boxes to connect up to eight indoor units.

The INVERTER-driven compressor at the heart of the MXZ-8B outdoor unit provides variable capacity control, allowing the system to adjust to the specific demands of the interior space as needed, not the hard start and stop of a traditional system installed in most U.S. homes.

The MXZ-8B48NA has only one port on the outdoor unit for two insulated refrigerant lines, which run into the home or business to connect to a branch box or boxes. From the, branch box(es), gas, and liquid refrigerant piping run to each of the indoor units. The LEV in the branch box(es) controls the refrigerant flow as the load of each zone changes.

Through the branch box(es) (the PAC-AKA31BC three-port and/or the PAC-AKA51BC five-port), the system can connect from two indoor units up to eight indoor units, depending on application requirements.

The flexibility of the system doesn't stop there. The MXZ-8B48NA has rated capacities of 48,000 Btu/h for cooling and 54,000 Btu/h for heating. System operation, however, can range from a minimum 12,000 Btu/h to a maximum 54,000 Btu/h in cooling and a maximum of 60,000 Btu/h in heating. This type of performance supports a large variety of applications.

The MXZ-8B48NA allows for further flexibility because it supports a connected indoor unit capacity from 22% to 130% or 12,000 Btu/h to a maximum 70,200 Btu/h, depending on diversity.

MXZ-8B48NA (2:1 - 8:1)



General Features:

- Four-ton outdoor unit can support up to eight indoor units using branch boxes
- Wide variety of indoor unit styles, including wall-mounted, floor-standing, ceiling-cassette, ducted
- Individual control up to eight (8) zones using wired or wireless controls
- Advanced microprocessor control
- Auto restart following a power outage
- Self-check function offering integrated diagnostics
- Limited warranty: five years on parts and defects and seven years on compressors

Connectable Indoor Units:



SLZ-KA09, 12, 15NA

MFZ-KA09, 12, 18NA

MULTI-ROOM MXZ-B INVERTER HEAT PUMP





Model	Name	Outdoor U	nit	MXZ-8B48NA	
	Cooling *1	Rated Capacity	Btu/h	48,000 / 48,000	
	Non-ducted/	Rated Total Input	W	5,780 / 6,470	
	Ducted	Maximum Capacity	Btu/h	54,000	
		Rated Capacity	Btu/h	54,000 / 54,000	
	Heating at 47° F *2 Non-	Rated Total Input	W	4,820 / 5,270	
Indoor Unit	ducted/Ducted	Maximum Capacity	Btu/h	60,000	
		Rated Capacity	Btu/h	33,000 / 34,700	
	Heating at 17° F *3 Non-	Rated Total Input	W	2,950 / 3,390	
	ducted/Ducted	Maximum Capacity	Btu/h	36,600 / 36,550	
Power Supply		Phase, Cycle, Voltage	•	1 Phase, 60Hz, 208 / 230V	
		Indoor - Outdoor S1 - S2		AC 208-230V	
Voltage		Indoor - Outdoor S2 - S3		DC12-24V	
		MCA	Α	32	
		Recommended Fuse/Breaker Size	А	50	
			Type x Quantity	Propeller x 2	
		Fan Motor	Motor Output (kW)	0.086 + 0.086	
			Model (Type)	DC INVERTER-driven Scroll	
		Compressor	Motor Output (kW)	2.9	
		Airflow (Cooling/Heating)	CFM	3,530	
		Refrigerant Control	Linear Expansion Valve		
Outdoor Unit		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	
		W: In.		37-7/16	
		Dimensions	D: In.		
		Dimensions		13+1-3/16	
		NA/-1-l-4	H: In.	53-3/16	
		Weight Lbs.		278	
Indoor Unit		Total Capacity 22-130% Btu/h		12,000 - 70,200	
Remote Controll	or	Model / Quantity		6,00 - 24,000 / 2-8 Associated with	
Nemote Control		Туре		Indoor Unit Model	
		Туре		R410A	
Refrigerant		Charge	Lbs., Oz.	18, 11.2	
nomgerant		Oil	Type (fl. oz.)	FV50S (73)	
D (1		Gas Side O.D.	In.	5/8	
Refrigerant Pipe		Liquid Side O.D.	In.	3/8	
		Height Difference (Max.)	Ft.	66/98 *4	
Refrigerant Pipe Length		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	

*Compatible with the MSZ-A, MSZ-FD, MSZ-FE, MSZ-GE, MFZ-KA, SEZ-KD, PLA, and PEAD series indoor units

NOTES: Test conditions are based on AHRI 210/240. 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); Outdoor: D.B. 95° F (35° C), W.B. 75° F (24° C).
- Rating conditions (heating)-Indoor: D.B. 70° F (21° C), W.B. 60° F (16° C); Outdoor: D.B. 47° F (8° C), W.B. 43° F (6° C).
- Rating conditions (heating)-indoor: D.B. 70° F (21° C), W.B. 60° F (16° C); Outdoor: D.B. 17° F (-8° C), W.B. 15° F (-9° C).
- *4. 66' applies to installations when the outdoor unit is installed below the indoor unit.

Power factor equals 97 percent.

Specifications are subject to change without notice.

Note: Maximum installed capacity is the maximum total of all connected indoor units, NOT the maximum capacity produced.



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

See page 25 for MXZ-B information on efficiency

*Includes both branch boxes if there are two.

Branch Boxes: (At least one branch box required)



PAC-AKA51BC Branch Box



PAC-AKA31BC Branch Box

Required Branch Boxes for MXZ-8B48NA (Maximum of 2 branch boxes can be connected to one outdoor unit; requires joint MSDD-50AR-E or MSDD-50BR-E.)

Model Name			PAC-AKA31BC	PAC-AKA51BC	
Connectable No.	Connectable No. of Indoor Units			5	
Power Supply	Phase, Cycle, Vo	oltage	1 Phase, 60Hz, 208 / 230V		
Power Input		W		3	
Current		Α	0	.05	
External Finish			Galvanized-	-Steel Sheets	
Width		ln.	17	-3/4	
Dimensions	Depth	ln.	11		
	Height	ln.	7-	3/4	
Net Weight		Lbs.	19	21	
	Outdoor Unit to	Gas (In.)	5	5/8	
Refrigerant Pipe	Branch Box	Liquid (In.)	3	3/8	
Dimensions	Branch Box to	Gas (In.)	A,B,C: 3/8	A,B,C,D: 3/8; E: 1/2	
Indoor Units		Liquid (In.)	A,B,C: 1/4	A,B,C,D,E: 1/4	
Drainpipe Size (O.	.D.)	In.	3/4		



MSZ WALL-MOUNTED INDOOR UNITS (FOR MXZ-B OUTDOOR UNITS)



(MSZ-GE12NA MODEL SHOWN)

Model Name	Indoor Unit		MSZ-GE06NA	MSZ-GE09NA	MSZ-FE09NA	MSZ-GE12NA	MSZ-FE12NA	MSZ-GE15NA	MSZ-GE18NA	MSZ-FE18NA	MSZ-GE24NA
Cooling *1	Rated Capacity	Btu/h	6,000	9,000	9,000	12,000	12,000	14,000	17,200	18,000	22,500
Heating at 47° F *2	Rated Capacity	Btu/h	7,200	10,900	10,900	14,400	13,600	18,000	21,600	21,600	27,600
Power Supply	Phase, Cycle, Voltage	•				1-phase	e, 60Hz, 208 /	230V *3		•	
	Indoor - Outdoor S1 - S	S2					AC 208 / 230V	1			
Voltage	Indoor - Outdoor S2 - S	S3	DC12-24V								
voitage	Indoor - Remote Contr	oller		Wireless Type (Optional Wired Controller: DC 12V)							
	MCA	Α		1.0							
	Fan Motor	F.L.A.					0.76				
	Airflow at Cooling (Quiet-Lo-Med-Hi-	DRY (CFM)	145-170-23	37-321-399	162-226- 339-381	145-170- 237-321- 399	162-226- 381-410	205-272- 335-420- 533	230-275- 339-420- 533	388-469- 628-738	388-469- 628-738
Fan	Super Hi or Lo-Med- Hi-Powerful)*1	WET (CFM)	109-134-20	01-286-364	144-202- 307-343	109-134- 201-286- 364	144-202- 350-367	170-237- 300-385- 498	194-240- 304-385- 498	347-420- 562-661	347-420- 562-661
	Airflow at Heating (Quiet-Lo-Med-Hi- Super Hi or Lo-Med- Hi-Powerful) *2	WET (CFM)	145-170- 233-321- 406	145-170- 237-321- 406	166-240- 367-381	145-170- 237-321- 406	166-240- 399-420	205-247- 304-367- 463	230-275- 339-431- 512	388-469- 628-738	388-469- 628-738
(Quiet-Lo-Med- Med-Hi-Powerf		dB(A)	19-22-3	0-37-43	22-31-39-42	19-22-30- 37-45	22-33-43-45	26-32-38- 44-49	28-33-38- 44-49	34-41-49-53	34-41-49-53
	e Level at Heating Hi-Super Hi or Lo- iul) *2	dB(A)	19-22-3	0-37-43	22-31-40-42	19-22-30- 37-43	22-23-43-44	26-30-35- 40-46	28-33-38- 43-48	32-41-49-52	32-41-49-52
External Finish	Color					Muns	ell No. 1.0Y 9.	2 / 0.2			
		W: In.		31-7/16 43-5/16					5/16		
Dimension Unit		D: In.	9-	1/8	10-1/8	9-1/8	10-1/8	9-	1/8	9-	3/8
		H: In.				11-5/8				12-1	3/16
Weight Unit		Lbs.	2	2	27	22	27	2	2	3	37
Field Drainpipe	Size O.D.	ln.					5/8				
Remote Con- troller	Туре				W	ireless Remo	te (Optional W	red Controlle	er)		
Refrigerant	Туре		R410A								
Refrigerant	Gas Side O.D.	ln.			3/8			1,	/2		/8
Pipe	Liquid Side O.D.	ln.				1/4				3	/8
Connection Method	Indoor/Outdoor						Flared/Flared				

*MXZ-2B20NA is also compatible with the MSZ-A and MSZ-FD series indoor units.

NOTES: Test conditions are based on AHRI 210/240.

- *1. Rating conditions (cooling)-Indoor: D.B. 80° F (27° C), W.B. 67° F (19° C); Outdoor: D.B. 95° F (35° C), W.B. 75° F (24° C).
- *2. Rating conditions (heating)-Indoor: D.B. 70° F (21° C), W.B. 60° F (16° C); Outdoor: D.B. 47° F (8° C), W.B. 43° F (6° C).
- *3. Indoor units receive power from outdoor units through field-supplied wiring.

Specifications are subject to change without notice.

LIMITED WARRANTY Seven-year warranty on compressor. Five-year warranty on parts. For data on specific indoor unit combinations, see page 21.



SEZ DUCTED INDOOR UNIT (FOR MXZ-B OUTDOOR UNITS)

Madel News	Indoor Unit		SEZ-KD09NA4 SEZ-KD12NA4 SEZ-KD15NA4 SEZ-KD18N				
Model Name	Outdoor Unit		For use with all MXZ-Series				
Cooling *1	Rated Capacity	Btu/h	9,000	12,000	15,000	17,200	
Heating at 47° F *2	Rated Capacity	Btu/h	10,900	13,600	18,000	21,600	
Power Supply	Phase, Cycle, Voltage			1-Phase, 60Hz	, 208 / 230V *4		
	Indoor - Outdoor S1-S2			AC 208	3-230V		
Voltage	Indoor - Outdoor S2-S3			DC	24V		
	MCA *4	Α		1	.0		
	Fan Motor Output	W		9	6		
Fan	Airflow (Lo-Med-Hi)	CFM	194-247-317	247-317-388	353-441-529	423-529-635	
	External Static Pressure *3	In. W.G.	0.02-0.06-0.14-0.20				
Sound Pressure Levels (I	Lo-Med-Hi)	dB(A)	23-26-30	23-28-33	30-34-37	30-34-38	
External Finish				Galvanized-	steel Sheets		
		W: In.	31-1/8	39 46-7			
Dimension		D: In.	27-9/16				
		H: In.		7-	7/8		
Weight		Lbs.	40	46	51	60	
Drain Lift Mechanism (In	cluded)	H: In.		21-1	1/16		
Field Drainpipe Size		ln.		0.D.:	1-1/4		
Remote Controller	Type		Wired Controller (PAR-21MAA)				
Refrigerant	Туре	Туре			R410A		
Refrigerant Pipe	Gas Side O.D.	In.	3/	/8	1/	2	
Liquid Side O.D.			1/4				
Connection Method			Flared/Flared				





Notes:

- *1. Cooling-Indoor: D.B. 80° F (26.7° C), W.B. 67° F (19.4° C); Outdoor: D.B. 95° F (35° C), W.B. 75° F (23.9° C).
- *2. Heating-Indoor: D.B. 70° F (21.1° C), W.B. 60° F (15.6° C); Outdoor: D.B. 47° F (8.3° C), W.B. 43° F (6.1° C).
- *3. External static pressure is factory set to 0.06" W.G. Adjustable via the PAR-21MAA
- *4. Indoor units receive power from outdoor units through field supplied interconnected wiring.
- Specifications are subject to change without notice.
- LIMITED WARRANTY Seven-year warranty on compressor. Five-year warranty on parts.
- **For data on specific indoor unit combinations, see page 21 - 23.
- Reference page 17 for SEZ static

MFZ FLOOR/LOW WALL INDOOR UNIT (FOR MXZ-B OUTDOOR UNITS)



	Indoor Unit							
Model Name	Outdoor Unit		MFZ-KA09NA	MFZ-KA12NA	MFZ-KA18NA			
Cooling *1	Rated Capacity	Btu/h	9,000	12,000	18,000			
Heating at 47° F *2	Rated Capacity	Btu/h	10,900	14,400	21,600			
Power Supply	Phase, Cycle, Voltage	•	1-ph	ase, 60Hz, 208 / 230\	/*3			
	Indoor - Outdoor S1 - S2		AC 208 / 230V					
Voltage	Indoor - Outdoor S2 - S3			DC12-24V				
voilage	Indoor - Remote Controller			Wireless Type				
	MCA	Α		1				
	Airflow at Cooling	DRY (CFM)	169-205-251-314	177-215-261-321	251-279-325-394			
Fan	(Lo-Med-Hi-Super Hi)*1	WET (CFM)	163-197-241-303	170-207-252-309	241-269-313-379			
	Airflow at Heating (Lo-Med-Hi-Super Hi) *2	(CFM)	177-198-219-332	184-201-219-335	261-275-297-434			
Sound Pressure Level (Lo-Med-Hi-Super Hi)		dB(A)	25-30-35-40	26-31-36-41	35-38-42-46			
Sound Pressure Level (Lo-Med-Hi-Super Hi)		dB(A)	25-30-35-40	28-31-36-41	35-38-42-47			
External Finish Color		•	Munsell No. 1.0Y 9.2/0.2					
		W: In.	27-9/16					
Dimension Unit		D: In.		7-7/8				
		H: In.		23-5/8				
Weight Unit		Lbs.	32					
Field Drainpipe Size C	.D.	In.		5/8				
Remote Controller Type			Wireless Re	emote (optional wired	controller)			
Refrigerant	Туре			R410A				
Refrigerant Pipe	Gas Side O.D.	ln.	3/8 1/2					
nemyerani ripe	Liquid Side O.D.	ln.	1/4					
Connection Method	Indoor/Outdoor		Flared/Flared					





*1. Cooling-Indoor: D.B. 80° F (26.7° C), W.B. 67° F (19.4° C); Outdoor: D.B. 95° F (35° C), W.B. 75° F (23.9° C).

*2. Heating-Indoor: D.B. 70° F (21.1° C), W.B. 60° F (15.6° C); Outdoor: D.B. 47° F (8.3° C), W.B. 43° F (6.1° C).

*3. Indoor units receive power from outdoor units through field supplied interconnected wiring.

Specifications are subject to change without notice.

LIMITED WARRANTY Seven-year warranty on compressor. Five-year warranty on parts.

Presently there is no 1:1 system with the MFZ indoor unit.

SLZ CEILING-RECESSED **INDOOR UNIT**

(FOR MXZ-B OUTDOOR UNITS)





Model Name	Indoor Uni	t	SLZ-KA09NA	SLZ-KA12NA	SLZ-KA15NA	
Cooling *1	Rated Capacity	Btu/h	8,400	11,100	15,000	
Heating at 47° F *2	Rated Capacity	Btu/h	10,900	13,600	18,000	
Power Supply	Phase, Cycle, Vol	tage	1-phase	e, 60Hz, 208 / 2	230V *3	
	Indoor - Outdoor - S2	S1		AC 208 / 230V		
Voltage	Indoor - Outdoor - S3	S2		DC12-24V		
	MCA	Α		1		
	Fan Motor	F.L.A.	0.23	0.28	0.28	
Fan	Airflow (Lo-Med-	DRY (CFM)	280-320-350	280-320-390	280-320-390	
	Hi)	WET (CFM)	250-290-320	250-290-350	250-290-350	
Sound Pressure Le	evel	dB(A)	25-30-35-40	26-31-36-41	35-38-42-46	
Sound Pressure Le (Quiet-Lo-Med-Hi-		dB(A)	29-32-38	30-34-39	31-35-40	
External Finish Co	lor	Unit/ Grille	Galvanized-steel Sheets/Munsell 6.4Y 8.9			
		W: In.		22-7/16		
Dimension Unit		D: In.		22-7/16		
		H: In.		8-3/16		
Weight Unit		Lbs.		36		
Field Drainpipe Siz	e O.D.	ln.		1-1/4		
Refrigerant	Туре			R410		
Refrigerant Pipe	Gas Side O.D.	ln.	3,	/8	1/2	
neingerant ripe	Liquid Side O.D.	ln.		1/4		
Connection Method	Indoor/Outdoor			Flared/Flared		

- *1. Cooling-Indoor: D.B. 80° F (26.7° C), W.B. 67° F (19.4° C); Outdoor: D.B. 95° F (35° C), W.B. 75° F (23.9° C).
 *2. Heating-Indoor: D.B. 70° F (21.1° C), W.B. 60° F (15.6° C); Outdoor: D.B. 47° F (8.3° C), W.B. 43° F (6.1° C).
- *3. Indoor units receive power from outdoor units through field supplied interconnected wiring.

Specifications are subject to change without notice.

EFFICIENCY RATINGS

ETTTOTENOT TOTALINGO							
Model	Indoor Unit Type	SEER	HSPF				
	Non-ducted	18	8.9				
MXZ-2B20NA-1	Ducted and Non-ducted	16.75	8.7				
	Ducted	15.5	8.5				
MXZ-2B20NA-1 ENERGY STAR & TAX CREDIT	2 x MSZ-GE09NA	18	8.9				
	Non-ducted	17.5	9.3				
MXZ-3B24NA	Ducted and Non-ducted	16.25	8.9				
	Ducted	15.0	8.5				
MXZ-3B24NA ENERGY STAR & TAX CREDIT	2 x MSZ-GE06NA 1 x MSZ-GE09NA	17.5	9.3				
MXZ-3B24NA ENERGY STAR & TAX CREDIT	2 x MSZ-GE06NA 1 x MSZ-GE12NA	17.5	9.3				
	Non-ducted	17.5	10.5				
MXZ-3B30NA	Ducted and Non-ducted	16	10.0				
	Ducted	14.5	9.5				
	Non-ducted	18	9.3				
MXZ-4B36NA	Ducted and Non-ducted	16.5	9.2				
	Ducted	15.0	9.0				
	Non-ducted	15	8.7				
MXZ-8B48NA	Ducted and Non-ducted	14.8	8.8				
	Ducted	14.7	8.9				

INDOOR INTAKE OUTDOOR INTAKE AIR TEMPERATURE AIR TEMPERATURE 95°F D.B., 71°F W.B. (MU, SUZ, 115°F D.B. (MU, MUZ/Y-GE, MXZ-2B20-1,3B24,3B30,4B36) MAXIMUM MUZ/Y-D, MUZ-FE, SUZ; MXZ-2B20-1, 90°F D.B., 73°F W.B. (MUZ/Y-GE, 3B24, 3B30,4B36,8B48) MUZ-FE, MUZ/Y-D) COOLING 14°F D.B. (MUZ/Y-GE, MUZ/Y-D, MUZ-FE, 67°F D.B., 57°F W.B. (MU, MUZ/Y-GE, SUZ; MXZ-2B20-1,3B24, 3B30,4B36) MINIMUM MUZ/Y-D, MUZ-FE, SUZ; 23°F D.B. (MXZ-8B48) MXZ-2B201,3B24,3B30,4B36) 67°F D.B. (MU) 80°F D.B., 67°F W.B. (MU, MUZ/Y-GE, 75°F D.B., 65°F W.B. (MUZ/Y-GE, MAXIMUM MUZ/Y-D, MUZ-FE, SUZ; MXZ-2B20-1, MUZ-FE, SUZ; MXZ-2B20-1,3B24,3B30,4B36) 3B24,3B30,4B36) 70°F D.B. (MXZ-8B48) -13°F D.B., -15°F W.B. (MUZ-FE) HEATING -4°F D.B., -5°F W.B. (SUZ, MUZ-GE)

5°F D.B., 4°F W.B. (MXZ-8B48NA)

14°F D.B., 13°F W.B. (MUZ-D)

3B30,4B36)

6°F D.B., 5°F W.B. (MXZ-2B20-1,3B24,

70°F D.B., 60°F W.B. (MUZ-GE,

1,3B24,3B30,4B36)

MUZ-D, MUZ-FE, SUZ; MXZ-2B20-

REFRIGERANT TUBING SETS

MINIMUM

		02.0		
Lineset Model Number	Tube Size (In.)	Length Ft.	Insul.	Use With Mitsubishi Electric Models
MLS143812T-15	1/4 x 3/8	15	1/2"	MS-A09WA; MSZ-GE06NA;
MLS143812T-30	1/4 x 3/8	30	1/2"	MSY/Z-GE09,12NA; MSZ-FE09,12NA;
MLS143812T-50	1/4 x 3/8	50	1/2"	SEZ-KD09,12NA; MFZ-KA09,12NA
MLS143812T-65	1/4 x 3/8	65	1/2"	SLZ-KA09, 12
MLS141212T-15	1/4 x 1/2	15	1/2"	
MLS141212T-30	1/4 x 1/2	30	1/2"	
MLS141212T-50	1/4 x 1/2	50	1/2"	MS-A12WA; MSY/Z-GE15,18NA; SEZ-KD15,18NA;
MLS141212T-65	1/4 x 1/2	65	1/2"	MFZ-KA18NA; SLZ-KA15NA
MLS141212-100	1/4 x 1/2	100	1/2"	
MPLS385812T-10	3/8 x 5/8	10	1/2"	
MPLS385812T-15	3/8 x 5/8	15	1/2"	
MPLS385812T-30	3/8 x 5/8	30	1/2"	MSY/Z-GE24NA,
MPLS385812T-50	3/8 x 5/8	50	1/2"	MSY/Z-D30,36NA; MXZ-8B48NA, MSZ-FE18NA
MPLS385812T-65	3/8 x 5/8 65 1/2"			
MPLS385812T-100	3/8 x 5/8	100	1/2"	

REFRIGERANT LINE LENGTH FLARE/FLARE

	,		
INDOOR UNIT	OUTDOOR UNIT	LENGTH In Feet	HEIGHT IN FEET
MS-A09WA	MU-A09WA	65	35
MS-A12WA	MU-A12WA	65	35
MSY-GE09NA	MUY-GE09NA	65	40
MSY-GE12NA	MUY-GE12NA	65	40
MSY-GE15NA	MUY-GE15NA	65	40
MSY-GE18NA	MUY-GE18NA	100	50
MSZ-GE09NA	MUZ-GE09NA	65	40
MSZ-GE12NA	MUZ-GE12NA	65	40
MSZ-GE15NA	MUZ-GE15NA	65	40
MSZ-GE18NA	MUZ-GE18NA	100	50
MSY-GE24NA	MUY-GE24NA	100	50
MSZ-GE24NA	MUZ-GE24NA	100	50
MSY-D30NA	MUY-D30NA	100	50
MSZ-D30NA	MUZ-D30NA	100	50
MSY-D36NA	MUY-D36NA	100	50
MSZ-D36NA	MUZ-D36NA	100	50
MSZ-FE09NA	MUZ-FE09NA	65	40
MSZ-FE12NA	MUZ-FE12NA	65	40
MSZ-GE06,09,12,15NA; MSZ-FE09,12NA; MFZ-KA09,12NA; SEZ-KD09,12,15NA	MXZ-2B20NA-1	164	49*/33
MSZ-GE06,09,12,15,18NA; MSZ-FE09,12, 18N; MFZ-KA09,12,18NA; SEZ-KD09,12,15,18NA SLZ-KA09, 12, 15NA	MXZ-3B24NA	230	49*/33
MSZ-GE06,09,12,15,18NA; MSZ-GA24NA, MSZ-FE09,12, 18NA; MFZ-KA09,12,18NA; SEZ-KD09,12,15,18NA SLZ-KA09, 12, 15NA	MXZ-3B30NA	230	49*/33
MSZ-GE06,09,12,15,18NA; MSZ-GE24NA, MSZ-FE09,12, 18NA; MFZ-KA09,12,18NA; SEZ-KD09,12,15,18NA SLZ-KA09, 12, 15NA	MXZ-4B36NA	230	49*/33
MSZ-GE06,09,12,15,18NA; MSZ-GE24NA, MSZ-FE09,12, 18NA; MFZ-KA09,12,18NA; SEZ-KD09,12,15,18NA SLZ-KA09, 12, 15NA	MXZ-8B48NA	377	66*/98

OPTIONAL ACCESSORIES

RCMKP1CB	M-Series Wireless	Lockdown bracket for remote controller		
ULTRILITE1	All M-Series	Condensing unit mounting pad: 16" x 36" x 3"		
PART NUMBER	USE WITH	DESCRIPTION		
Port Adapters and Connection Pipes				
MAC-A454JP-E	MXZ-Series	Adapter: 3/8" X 1/2"		
MAC-A455JP-E	MXZ-Series	Adapter: 1/2" X 3/8"		
MAC-A456JP-E	MXZ-Series	Adapter: 1/2" X 5/8"		
MSDD-50AR-E	MXZ-Series Branch Box	Tee Distribution Pipe - Flare Connection between two branch boxes		
MSDD-50BR-E	MXZ-Series Branch Box	Tee Distribution Pipe - Braze Connection between two branch boxes		
PAC-493PI	MXZ-Series	Adapter: 1/4" X 3/8"		
PAC-SG76RJ-E	MXZ-Series	Adapter: 3/8" X 5/8"		

OPTIONAL ACCESSORIES CONTINUED ON NEXT PAGE

^{*} MU units operate at intake air temperature down to 10° F with the addition of an ICM-326HM-1 low temperature control.

OPTIONAL ACCESSORIES (CONTINUED)

USE WITH	DESCRIPTION
	Options and Accessories
M-Series Indoor Units	Remote temperature sensor for M-Series indoor units
M-Series INVERTER Units	MA and contact terminal interface - Required to use PAR-21MAA wired, wall mount controller with M-Series Systems
M-Series INVERTER Units	CMCN M-NET control adapter / Interface for Mr. Slim M-Series MSY/Z, SEZ / MFZ
SEZ-KD Indoor Units	External Fan / Heater control relay adapter
Use with P-Series, SLZ, SEZ and for wired M-Series Controller	Deluxe MA remote controller (Requires MAC-397IF-E for use with M-Series - MSY/Z, MFZ)
SEZ	Wireless remote controller for SEZ units (Requires signal receiver PAR-SA9FA-E)
SEZ	Wireless signal receiver for SEZ
M-Series	3-pole disconnect switch; 30A, 600V; turns off power between indoor and outdoor units - mounts in 2 X 4 utility box and requires standard single gang switch plate/cover
All Indoor Units	Drain Pan Level Sensor/Control
	Low Ambient
	Low ambient head pressure controller
	Drain pan heater
MUZ-GE18, SUZ-KD18 outdoor unit	Drain pan heater
MSZ/MSV D20/26	Filters Anti allorgy anzyma filter
	Anti-allergy enzyme filter Anti-allergy enzyme filter
	Platinum deodorizing filter
	Anti-allergy enzyme filter
	Air Cleaning Filter/Anti-Allergy Enzyme Filter
	Anti-allergy enzyme filter
	Filter Boxes
FB Series Filter Box for SEZ-KD09NA	Optional filter box with MERV 8 filters
FB Series Filter Box for SEZ-KD12/15NA, and PEA-A12AA	Optional filter box with MERV 8 filters
FB Series Filter Box for SEZ-KD18NA	Optional filter box with MERV 8 filters
	Pumps
MSY/Z - 30,000 Btu/h or greater	Sauermann mini condensation pump: 230V
MS-Series - non-INVERTER	Sauermann mini condensation pump: 115V
MSY/Z - Less than 30,000 Btu/h	Sauermann mini condensation pump: 230V
	Miscellaneous
Bottom Return Plate for SEZ-KD09NA	Miscellaneous Converts low profile ducted indoor unit from rear return to bottom return
Bottom Return Plate for SEZ-KD09NA Bottom Return Plate for SEZ-KD12,KD15-NA	
	Converts low profile ducted indoor unit from rear return to bottom return
Bottom Return Plate for SEZ-KD12,KD15-NA	Converts low profile ducted indoor unit from rear return to bottom return Converts low profile ducted indoor unit from rear return to bottom return
Bottom Return Plate for SEZ-KD12,KD15-NA Bottom Return Plate for SEZ-KD18NA	Converts low profile ducted indoor unit from rear return to bottom return Converts low profile ducted indoor unit from rear return to bottom return Converts low profile ducted indoor unit from rear return to bottom return
Bottom Return Plate for SEZ-KD12,KD15-NA Bottom Return Plate for SEZ-KD18NA Use with any Mr. Slim multi-zone product	Converts low profile ducted indoor unit from rear return to bottom return Converts low profile ducted indoor unit from rear return to bottom return Converts low profile ducted indoor unit from rear return to bottom return Refrigeration Ball Valve-Flare/Schrader®/Insulated - 1/2"
Bottom Return Plate for SEZ-KD12,KD15-NA Bottom Return Plate for SEZ-KD18NA Use with any Mr. Slim multi-zone product Use with any Mr. Slim multi-zone product	Converts low profile ducted indoor unit from rear return to bottom return Converts low profile ducted indoor unit from rear return to bottom return Converts low profile ducted indoor unit from rear return to bottom return Refrigeration Ball Valve-Flare/Schrader®/Insulated - 1/2" Refrigeration Ball Valve-Flare/Schrader/Insulated - 1/4"
Bottom Return Plate for SEZ-KD12,KD15-NA Bottom Return Plate for SEZ-KD18NA Use with any Mr. Slim multi-zone product Use with any Mr. Slim multi-zone product Use with any Mr. Slim multi-zone product	Converts low profile ducted indoor unit from rear return to bottom return Converts low profile ducted indoor unit from rear return to bottom return Converts low profile ducted indoor unit from rear return to bottom return Refrigeration Ball Valve-Flare/Schrader®/Insulated - 1/2" Refrigeration Ball Valve-Flare/Schrader/Insulated - 1/4" Refrigeration Ball Valve-Flare/Schrader/Insulated - 3/8"
Bottom Return Plate for SEZ-KD12,KD15-NA Bottom Return Plate for SEZ-KD18NA Use with any Mr. Slim multi-zone product MU and PU outdoor units M-Series	Converts low profile ducted indoor unit from rear return to bottom return Converts low profile ducted indoor unit from rear return to bottom return Converts low profile ducted indoor unit from rear return to bottom return Refrigeration Ball Valve-Flare/Schrader®/Insulated - 1/2" Refrigeration Ball Valve-Flare/Schrader/Insulated - 1/4" Refrigeration Ball Valve-Flare/Schrader/Insulated - 3/8" Refrigeration Ball Valve-Flare/Schrader/Insulated - 5/8" Condensing unit wall mounting brackets (set of 2) - 440 lb. capacity: painted steel NOTE: Installer is responsible to select and provide suitable hardware and materials to insure proper
Bottom Return Plate for SEZ-KD12,KD15-NA Bottom Return Plate for SEZ-KD18NA Use with any Mr. Slim multi-zone product MU and PU outdoor units M-Series MUZ-GE18 / MUZ(Y)-D30/36 /	Converts low profile ducted indoor unit from rear return to bottom return Converts low profile ducted indoor unit from rear return to bottom return Converts low profile ducted indoor unit from rear return to bottom return Refrigeration Ball Valve-Flare/Schrader®/Insulated - 1/2" Refrigeration Ball Valve-Flare/Schrader/Insulated - 1/4" Refrigeration Ball Valve-Flare/Schrader/Insulated - 3/8" Refrigeration Ball Valve-Flare/Schrader/Insulated - 5/8" Condensing unit wall mounting brackets (set of 2) - 440 lb. capacity: painted steel NOTE: Installer is responsible to select and provide suitable hardware and materials to insure proper mount of bracket to wall
Bottom Return Plate for SEZ-KD12,KD15-NA Bottom Return Plate for SEZ-KD18NA Use with any Mr. Slim multi-zone product MU and PU outdoor units M-Series MUZ-GE18 / MUZ(Y)-D30/36 / SUZ-KA18	Converts low profile ducted indoor unit from rear return to bottom return Converts low profile ducted indoor unit from rear return to bottom return Converts low profile ducted indoor unit from rear return to bottom return Refrigeration Ball Valve-Flare/Schrader®/Insulated - 1/2" Refrigeration Ball Valve-Flare/Schrader/Insulated - 1/4" Refrigeration Ball Valve-Flare/Schrader/Insulated - 3/8" Refrigeration Ball Valve-Flare/Schrader/Insulated - 5/8" Condensing unit wall mounting brackets (set of 2) - 440 lb. capacity: painted steel NOTE: Installer is responsible to select and provide suitable hardware and materials to insure proper mount of bracket to wall DiamondBack™ Platform Stands Drain socket assembly
Bottom Return Plate for SEZ-KD12,KD15-NA Bottom Return Plate for SEZ-KD18NA Use with any Mr. Slim multi-zone product MU and PU outdoor units M-Series MUZ-GE18 / MUZ(Y)-D30/36 /	Converts low profile ducted indoor unit from rear return to bottom return Converts low profile ducted indoor unit from rear return to bottom return Converts low profile ducted indoor unit from rear return to bottom return Refrigeration Ball Valve-Flare/Schrader®/Insulated - 1/2" Refrigeration Ball Valve-Flare/Schrader/Insulated - 1/4" Refrigeration Ball Valve-Flare/Schrader/Insulated - 3/8" Refrigeration Ball Valve-Flare/Schrader/Insulated - 5/8" Condensing unit wall mounting brackets (set of 2) - 440 lb. capacity: painted steel NOTE: Installer is responsible to select and provide suitable hardware and materials to insure proper mount of bracket to wall DiamondBack™ Platform Stands
Bottom Return Plate for SEZ-KD12,KD15-NA Bottom Return Plate for SEZ-KD18NA Use with any Mr. Slim multi-zone product MU and PU outdoor units M-Series MUZ-GE18 / MUZ(Y)-D30/36 / SUZ-KA18 MUZ-FD09/12	Converts low profile ducted indoor unit from rear return to bottom return Converts low profile ducted indoor unit from rear return to bottom return Converts low profile ducted indoor unit from rear return to bottom return Refrigeration Ball Valve-Flare/Schrader®/Insulated - 1/2" Refrigeration Ball Valve-Flare/Schrader/Insulated - 1/4" Refrigeration Ball Valve-Flare/Schrader/Insulated - 3/8" Refrigeration Ball Valve-Flare/Schrader/Insulated - 5/8" Condensing unit wall mounting brackets (set of 2) - 440 lb. capacity: painted steel NOTE: Installer is responsible to select and provide suitable hardware and materials to insure proper mount of bracket to wall DiamondBack™ Platform Stands Drain socket Drain socket
Bottom Return Plate for SEZ-KD12,KD15-NA Bottom Return Plate for SEZ-KD18NA Use with any Mr. Slim multi-zone product MU and PU outdoor units M-Series MUZ-GE18 / MUZ(Y)-D30/36 / SUZ-KA18 MUZ-FD09/12 M-Series	Converts low profile ducted indoor unit from rear return to bottom return Converts low profile ducted indoor unit from rear return to bottom return Converts low profile ducted indoor unit from rear return to bottom return Refrigeration Ball Valve-Flare/Schrader®/Insulated - 1/2" Refrigeration Ball Valve-Flare/Schrader/Insulated - 1/4" Refrigeration Ball Valve-Flare/Schrader/Insulated - 3/8" Refrigeration Ball Valve-Flare/Schrader/Insulated - 5/8" Condensing unit wall mounting brackets (set of 2) - 440 lb. capacity: painted steel NOTE: Installer is responsible to select and provide suitable hardware and materials to insure proper mount of bracket to wall DiamondBack™ Platform Stands Drain socket Air outlet guide
Bottom Return Plate for SEZ-KD12,KD15-NA Bottom Return Plate for SEZ-KD18NA Use with any Mr. Slim multi-zone product MU and PU outdoor units M-Series MUZ-GE18 / MUZ(Y)-D30/36 / SUZ-KA18 MUZ-FD09/12 M-Series M-Series	Converts low profile ducted indoor unit from rear return to bottom return Converts low profile ducted indoor unit from rear return to bottom return Converts low profile ducted indoor unit from rear return to bottom return Refrigeration Ball Valve-Flare/Schrader®/Insulated - 1/2" Refrigeration Ball Valve-Flare/Schrader/Insulated - 1/4" Refrigeration Ball Valve-Flare/Schrader/Insulated - 3/8" Refrigeration Ball Valve-Flare/Schrader/Insulated - 5/8" Condensing unit wall mounting brackets (set of 2) - 440 lb. capacity: painted steel NOTE: Installer is responsible to select and provide suitable hardware and materials to insure proper mount of bracket to wall DiamondBack™ Platform Stands Drain socket assembly Drain socket Air outlet guide - MXZ-3B24 / 3B30 / 4B36 NA
Bottom Return Plate for SEZ-KD12,KD15-NA Bottom Return Plate for SEZ-KD18NA Use with any Mr. Slim multi-zone product MU and PU outdoor units M-Series MUZ-GE18 / MUZ(Y)-D30/36 / SUZ-KA18 MUZ-FD09/12 M-Series M-Series M-Series MUZ-GE09/12/15 / MUZ-FE09/12	Converts low profile ducted indoor unit from rear return to bottom return Converts low profile ducted indoor unit from rear return to bottom return Converts low profile ducted indoor unit from rear return to bottom return Refrigeration Ball Valve-Flare/Schrader®/Insulated - 1/2" Refrigeration Ball Valve-Flare/Schrader/Insulated - 1/4" Refrigeration Ball Valve-Flare/Schrader/Insulated - 3/8" Refrigeration Ball Valve-Flare/Schrader/Insulated - 5/8" Condensing unit wall mounting brackets (set of 2) - 440 lb. capacity: painted steel NOTE: Installer is responsible to select and provide suitable hardware and materials to insure proper mount of bracket to wall DiamondBack™ Platform Stands Drain socket Air outlet guide - MXZ-3B24 / 3B30 / 4B36 NA Drain socket
Bottom Return Plate for SEZ-KD12,KD15-NA Bottom Return Plate for SEZ-KD18NA Use with any Mr. Slim multi-zone product MU and PU outdoor units M-Series MUZ-GE18 / MUZ(Y)-D30/36 / SUZ-KA18 MUZ-FD09/12 M-Series M-Series MUZ-GE09/12/15 / MUZ-FE09/12 M-Series	Converts low profile ducted indoor unit from rear return to bottom return Converts low profile ducted indoor unit from rear return to bottom return Converts low profile ducted indoor unit from rear return to bottom return Refrigeration Ball Valve-Flare/Schrader®/Insulated - 1/2" Refrigeration Ball Valve-Flare/Schrader/Insulated - 1/4" Refrigeration Ball Valve-Flare/Schrader/Insulated - 3/8" Refrigeration Ball Valve-Flare/Schrader/Insulated - 5/8" Condensing unit wall mounting brackets (set of 2) - 440 lb. capacity: painted steel NOTE: Installer is responsible to select and provide suitable hardware and materials to insure proper mount of bracket to wall DiamondBack™ Platform Stands Drain socket assembly Drain socket Air outlet guide - MXZ-3B24 / 3B30 / 4B36 NA Drain socket Air outlet guide - MXZ-2B20NA
Bottom Return Plate for SEZ-KD12,KD15-NA Bottom Return Plate for SEZ-KD18NA Use with any Mr. Slim multi-zone product MU and PU outdoor units M-Series MUZ-GE18 / MUZ(Y)-D30/36 / SUZ-KA18 MUZ-FD09/12 M-Series M-Series MUZ-GE09/12/15 / MUZ-FE09/12 M-Series M-Series M-Series M-Series	Converts low profile ducted indoor unit from rear return to bottom return Converts low profile ducted indoor unit from rear return to bottom return Converts low profile ducted indoor unit from rear return to bottom return Refrigeration Ball Valve-Flare/Schrader®/Insulated - 1/2" Refrigeration Ball Valve-Flare/Schrader/Insulated - 1/4" Refrigeration Ball Valve-Flare/Schrader/Insulated - 3/8" Refrigeration Ball Valve-Flare/Schrader/Insulated - 5/8" Condensing unit wall mounting brackets (set of 2) - 440 lb. capacity: painted steel NOTE: Installer is responsible to select and provide suitable hardware and materials to insure proper mount of bracket to wall DiamondBack™ Platform Stands Drain socket assembly Drain socket Air outlet guide - MXZ-3B24 / 3B30 / 4B36 NA Drain socket Air outlet guide- MXZ-2B20NA Air outlet guide
	M-Series Indoor Units M-Series INVERTER Units M-Series INVERTER Units SEZ-KD Indoor Units Use with P-Series, SLZ, SEZ and for wired M-Series Controller SEZ SEZ M-Series All Indoor Units M-Series Non-INVERTER units MUZ-GE09/12/15, MUZ-FE09/12, SUZ-KD09/12/15 outdoor unit MUZ-GE18, SUZ-KD18 outdoor unit MSZ/MSY-D30/36 MSY/MSZ-GA24 MSZ-FD9/12 / FE09/12 M-Series Indoor Unit - GE09/GE12/GE15/GE18 MFZ-KA MSZ-FD9/12 / FE09/12 FB Series Filter Box for SEZ-KD09NA FB Series Filter Box for SEZ-KD12/15NA, and PEA-A12AA FB Series Filter Box for SEZ-KD18NA MSY/Z - 30,000 Btu/h or greater MS-Series - non-INVERTER

MXZ-B Series Port Adapter chart

Combinations	Port Adapter	Unit Port
MXZ-2B20NA-1	Required	Size
MXZ-2B2UNA-1		
2-zone combinations w/ both units ≤12K	N/A	A: 3/8" x 1/4"
6+15	1-MAC-A454JP-E	B: 3/8" x 1/4"
9+15	1-MAC-A454JP-E	
MXZ-3B24NA		
All rated 2-zone combina- tions	N/A	A: 1/2" x 1/4"
All rated 3-zone combinations	N/A	B: 3/8" x 1/4"
		C: 3/8" x 1/4"
MXZ-3B30NA		
2-zone combinations w/ at least one unit ≤12K	N/A	A: 1/2" x 1/4"
2-zone combinations w/ both units ≥15K	1-MAC-A454JP-E	B: 3/8" x 1/4"
9 + 24	1-MAC-A456JP-E	C: 3/8" x 1/4"
3-zone combinations w/ all units ≤12K	1-MAC-A455JP-E	
All other rated 3-zone comb.	N/A	
MXZ-4B36NA		
2-zone combinations w/ at least one unit ≤12K	N/A	A: 1/2" x 1/4"
2-zone combinations w/ both units ≥15K	1-MAC-A454JP-E	B: 3/8" x 1/4"
6 + 24	1-MAC-A456JP-E	C: 3/8" x 1/4"
9 + 24	1-MAC-A456JP-E	D: 3/8" x 1/4"
3-zone combinations w/ at least two units ≤12K	N/A	
3-zone combinations w/ two units ≥15K	1-MAC-A454JP-E	
6+6+24 or 6+9+24	1-MAC-A456JP-E	
9+9+24	1-MAC-A456JP-E	
4-zone combinations w/ at least three units ≤12K	1-MAC-A455JP-E	
6+6+15+15	1-MAC-A454JP-E	
6+6+15+15	1-MAC-A454JP-E	

Note: When using the PLA-A24BA, PCA-A24KA, or PEAD-A24AA two port adapter will be needed: 1-MAC-A456JP-E (1/2" x 5/8") A port or 1-PAC-SG76RJ-E (3/8" x 5/8") B, C, and D ports, and 1-PAC493PI (1/4" x 3/8")

Combinations Port Adapter Required			uired		
MXZ-8B48NA	Qty.	With 3-Port Branch Box	Qty.	With 5-Port Branch Box	
2-zone combinations w/ both units ≤12K	-	N/A	-	N/A	
2-zone combinations w/ one unit ≥15K	1	1-MAC-A454JP-E	-	N/A	
2-zone combinations w/ both units ≥12K	2	1-MAC-A454JP-E	1	1-MAC-A454JP-E	
6+24, 9+24 or 12+24	1	1-PAC-SG76RJ-E	1	1-PAC-SG76RJ-E	
45.04.40.04	1	1-MAC-A454JP-E			
15+24 or 18+24		1-PAC-SG76RJ-E	1	1-PAC-SG76RJ-E	
24+24	2	1-PAC-SG76RJ-E	2	1-PAC-SG76RJ-E	
3-zone combinations w/ all units ≤12K	-	N/A	1	N/A	
3-zone combinations w/ two units ≤12K	1	1-MAC-A454JP-E	1	N/A	
3-zone combinations w/ two units ≥15K	2	1-MAC-A454JP-E	1	1-MAC-A454JP-E	
3-zone combinations w/ all units ≥15K	3	1-MAC-A454JP-E	2	1-MAC-A454JP-E	
6+6+24, 6+9+24, 6+12+24, 9+9+24, 9+12+24 or 12+12+24	1	1-PAC-SG76RJ-E	1	1-PAC-SG76RJ-E	
6+15+24, 6+18+24, 9+15+24, 9+18+24,	1	1-MAC-A454JP-E		1-PAC-SG76RJ-E	
12+15+24 or 12+18+24	1	1-PAC-SG76RJ-E	1		
	2	1-MAC-A454JP-E	1	1-MAC-A454JP-E	
15+15+24, 15+18+24 or 18+18+24	1	1-PAC-SG76RJ-E	1	1-PAC-SG76RJ-E	
6+24+24, 9+24+24 or 12+24+24	2	1-PAC-SG76RJ-E	2	1-PAC-SG76RJ-E	
45 04 04 40 04 04	1	1-MAC-A454JP-E			
15+24+24 or 18+24+24	2	1-PAC-SG76RJ-E	2	1-PAC-SG76RJ-E	
Combinations of 4 or more zones	1	See notes for application below	1	See notes for application below	

MXZ-8B48NA	
Branch Box	Branch Box
PAC-AKA31BC	PAC-AKA51BC
PORT A = 3/8" gas x 1/4" liquid	PORT A = 3/8" gas x 1/4" liquid
PORT B = 3/8" gas x 1/4" liquid	PORT B = 3/8" gas x 1/4" liquid
PORT C = 3/8" gas x 1/4" liquid	PORT C = 3/8" gas x 1/4" liquid
	PORT D = 3/8" gas x 1/4" liquid
	PORT E = 1/2" gas x 1/4" liquid

Notes for application:

- Check the lineset sizes for your indoor selected models.
- Select the branch box or boxes needed for your application.
- Compare indoor unit lineset sizes as compared to branch box sizes.
- Connect 15K + indoor units to the larger port on the (PAC-AKA51BC).
 Adapt lineset size with appropriate port adapter
- from -above list.
- When using the PLA-A24BA or PEAD-A24AA, two port adapter will be needed: 1-MAC-A456JP-E (1/2" x 5/8") or 1-PAC-SG76RJ-E (3/8" x 5/8") and 1-PAC493PI (1/4" x 3/8").

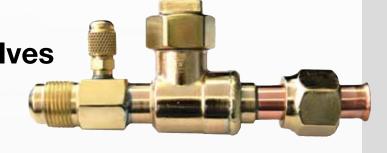
Available Indoor Units	Line set size
Wall-Mounted	
MSZ-GE06/09/12NA	3/8" gas x 1/4" liquid
MSZ-GE15/18NA	1/2" gas x 1/4" liquid
MSZ-GE-24NA	5/8" gas x 3/8" liquid
MSZ-FE09/12	3/8" gas x 1/4" liquid
MSZ-FE18NA	5/8" gas x 3/8" liquid
Floor-Standing	
MFZ-KA09/12NA	3/8" gas x 1/4" liquid
MFZ-KA18NA	1/2" gas x 1/4" liquid
PLA Ceiling-Cassette	
PLA-A12/18BA	1/2" gas x 1/4" liquid
PLA-A24BA	5/8" gas x 3/8" liquid
Horizontal Ducted	
SEZ-KD09/12NA	3/8" gas x 1/4" liquid
SEZ-KD15/18NA	1/2" gas x 1/4" liquid
PEAD-A24AA	5/8" gas x 3/8" liquid

DIAMONDBACK™ BV-Series Ball Valves

Model numbers: BV14FFSI BV38FFSI BV12FFSI BV58FFSI



- Size available: 1/4"; 3/8"; 1/2"; 5/8"
- · Fully factory assembled
- Furnace brazed and pressure tested
- Each ball valve is equipped with Schrader® Valve for refrigerant service
- Design working pressure: 700 PSIG
- Temperature range:
 - -40° F to +325° F (-40° C to +149° C)
- Forged brass body and seal cap
- Teflon® seals and gaskets (no synthetic O-rings)
- Seal cap design permits valve operation without removal of seal cap
- Suitable for use with R-11, R-22, R-123, R-125, R-134A, R-236FA, R-4202A, R-402B, R-404A, R-407C, R-410A, R-500, R-502, and R-507
- One year limited materials and workmanship warranty on Ball Valves



- Engineered for Mini-split and Multi-split HVAC Units
- Full Port Design
- 700 PSIG Rated
- R-410A Compatible
- Flare Connections

Part Number	SAE Flare	Α	В	С	D	Е	F
BV14FFSI	1/4″	6.19	2.60	1.80	1.22	1.42	1.10
BV38FFSI	3/8″	6.30	2.67	1.80	1.22	1.42	1.10
BV12FFSI	1/2″	6.51	2.67	1.80	1.22	1.42	1.10
BV58FFSI	5/8″	6.64	2.67	1.80	1.28	1.42	1.10

^{*}Ball valves come with an insulation piece.



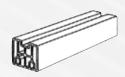


Lift the Mitsubishi Electric Comfort Solution outdoor unit to new heights with our Diamondback Platform Stands.

- Easy to install
- Available for all sizes of Mr. Slim outdoor units
- · Color matched to the outdoor units

Model Number: DSD-400N

L: 15-3/4" x W: 3-1/4" x H: 3-1/4"



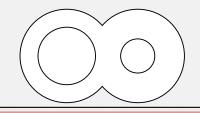


- Quick, efficient, and economical field installation using factory applied Twin Tube insulation and flare connections with flare nuts mounted
- · Correct lengths for reducing waste and time
- Quality, consistency, and economy
- All Diamondback Lineset tubing is tested in accordance with ASTM E243

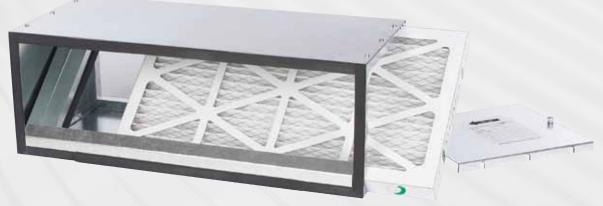
Lineset Model Number	Tube Size (In.)	Length Ft.	Insul.
MLS143812T-15	1/4 x 3/8	15	1/2"
MLS143812T-30	1/4 x 3/8	30	1/2"
MLS143812T-50	1/4 x 3/8	50	1/2"
MLS143812T-65	1/4 x 3/8	65	1/2"
MLS141212T-15	1/4 x 1/2	15	1/2"
MLS141212T-30	1/4 x 1/2	30	1/2"
MLS141212T-50	1/4 x 1/2	50	1/2"
MLS141212T-65	1/4 x 1/2	65	1/2"
MLS141212T-100	1/4 x 1/2	100	1/2"
MLS145812T-15	1/4 x 5/8	15	1/2"
MLS145812T-30	1/4 x 5/8	30	1/2"
MLS145812T-50	1/4 x 5/8	50	1/2"
MLS145812T-65	1/4 x 5/8	65	1/2"
MLS145812T-100	1/4 x 5/8	100	1/2"
MPLS385812T-10	3/8 x 5/8	10	1/2"
MPLS385812T-15	3/8 x 5/8	15	1/2"
MPLS385812T-30	3/8 x 5/8	30	1/2"
MPLS385812T-50	3/8 x 5/8	50	1/2"
MPLS385812T-65	3/8 x 5/8	65	1/2"
MPLS385812T-100	3/8 x 5/8	100	1/2"

"Twin-Tube" Lineset Insulation Design

- Balanced outside diameter for uniform coil/uncoil position stability.
- Minimum 1/2" insulation thickness on both tubes



Filter Boxes



FB Series filter boxes are available in compatible sizes for all Mr. Slim horizontal ducted indoor units.

FBL1 filter boxes include 1" thick pleated MERV 8 filter(s) installed. Filters are tested in accordance with ANSI/ASHRAE Standard 52.2 and Rated Class 2 under U.L. Standard 900.

FBL1-1	FB Series Filter Box for SEZ-KD09NA
FBL1-2	FB Series Filter Box for SEZ-KD12, KD15NA
FBL1-3	FB Series Filter Box for SEZ-KD18NA

The cabinet is constructed of non-insulated 20 gauge G-60 galvanized steel with foam gasket and provides an air-tight connection to indoor unit and access door. Gasket material complies with UL 723 requirements.

A screw-through cabinet design for secure attachment to indoor unit and return connection in rear is easily field-converted to bottom return.

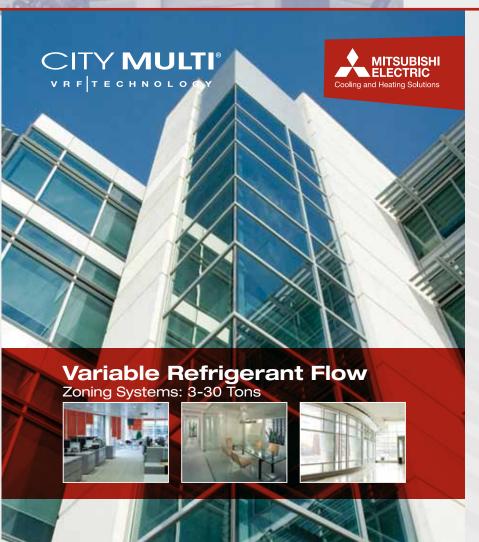




Put a professional finish on air-conditioning installations with an easy-to-install modular system that beautifies exteriors and protects Linesets, drainlines, and wiring.

- Can be use it indoors, too! Meets UL94v-0 for interior applications.
- Has snap-on covers and a full selection of couplings, elbows, T-joints, caps, and more for any application, complex or simple.
- Offers high-quality PVC with UV inhibitors for outdoor service in all weather conditions.
- Can be painted with most house paints to match exterior decors.
- Is not just for HVAC. Hide any exterior cabling, piping, or wiring.
- Available in four sizes: 2-1/4", 3", 4", and 6" tubes.

Download a brochure at www.line-hide.com to find out more information.



For more information on our CITY MULTI VRF product line visit our website at www.mitsubishipro.com





COOLING & HEATING

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*Hyper-Heating technology Patent Pending.

See complete warranty for terms, conditions and limitations. A copy is available from Mitsubishi Electric.

Form No. MSERIES 5-11 50K OA (reprint)

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