

VERSION MSCG\_4.14 (REVISED) ©2014 MITSUBISHI ELECTRIC US, INC. INTRODUCING MSZ-FH (pp. 1A-1C)





Heat pumps are now a realistic option for any home, in any climate. The MSZ-FH family of Hyper-Heating INVERTER residential systems offer year-round, high-efficiency cooling and heating for a variety of rooms, including bedrooms, basements, sunrooms and more. The slim, wall-mounted indoor units provide zone comfort control while the INVERTER-driven compressor and electric LEVs in the outdoor unit provide closer control and higher efficiency with minimal power usage.

### MSZ/MUZ-FH High Efficiency Heat Pumps | 3,100–25,200 Btu/h Capacity Range

- ▶ 30.5 22.0 SEER, 13.5 12.0 HSPF, INVERTER-driven compressor.
- Quiet operation as low as 20 dB(A)
- > Hyper-Heating performance down to minus 13 degrees F outdoor ambient.
- Quiet operation as low as 20 dB(A)
- ▶ 100% heating capacity at 5 degrees F outdoor ambient.
- Triple-action filtration.
  - Nano-platinum filter.
    - Electrostatic anti-allergen enzyme filter.
    - Deodorizing filter.
- Double-vane air delivery for enhanced circulation.
  - Option to set each vane separately.
  - Indirect or direct setting option.
  - Natural flow setting that creates air movement like a natural breeze.
- i-see Sensor™ 3D.
  - Infrared human sensing technologies to measure location of human heat signatures.
  - Senses floor temperature in order to deliver conditioned air to those areas that need it using double-vane airflow and motorized vertical vanes.
- ► NEW multi-function wireless controller.

### ENERGY EFFICIENT AND ENVIRONMENTALLY FRIENDLY

# M-Series systems utilize green technologies, and are much more efficient, so homeowners never have to sacrifice comfort over concerns about high-energy costs.

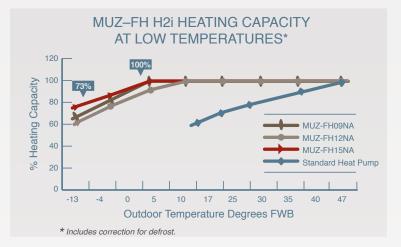
- ▶ INVERTER-driven technology results in substantial energy and utility savings for homeowners.
- Zone control for improved comfort and decreased energy usage.
- All FH Systems are ENERGY STAR<sup>®</sup> rated.
- New Industry leading SEER ratings as high as 30.5 dramatically better than conventional systems.
- Local and state utility rebates and incentive opportunities (Visit dsireusa.org for information on availability in your area).
- Washable filters made from natural materials.





Mitsubishi Electric systems feature the most advanced technology for delivering exceptional heat pump performance.

### H2i® TECHNOLOGY



**HEATING** even when it's minus 13 degrees F outdoor ambient, producing up to 100% heating capacity at 5 degrees F.

**YEAR-ROUND COMFORT** in extreme climates without the need for energy-consuming indoor supplemental heating devices.

**HOT-START TECHNOLOGY** provides warmth from the start, reducing drafts.

**MINIMAL MAINTENANCE** thanks to easily accessible filters, little or no ductwork to clean, and simple wiring between the indoor and outdoor units.



### SINGLE-ZONE | MSZ-FH Indoor Unit | Heat Pump

			ENERGY STAR	Energy star	ENERGY STOR			
Model Name	Indoc	or Unit	MSZ-FH09NA	MSZ-FH12NA	MSZ-FH15NA			
woder name	Outdo	or Unit	MUZ-FH09NA	MUZ-FH12NA	MUZ-FH15NA			
	Rated Capacity	Btu/h	9,000	12,000	15,000			
	Capacity Range	Btu/h	1,700-12,000	2,500-13,600	6,450 - 19,000			
Oppling \$1	Rated Total Input	W	560	870	1,200			
Cooling *1	Energy Efficiency	SEER	30.5	26.1	22.0			
	Moisture Removal	Pints/h	0.6	1.9	4.0			
	Sensible Heat Factor	1 1110/11	0.920	0.830	0.700			
	Rated Capacity	Btu/h	10,900	13,600	18,000			
Heating at 47° F *2	Capacity Range	Btu/h	1,600 - 18,000	3,700 - 21,000	5,150 - 24,000			
nealing at 47 F 2	Rated Total Input	W	710	950	1,300			
	HSPF (IV)	Btu/h/W	13.5	12.5	12.0			
LL	Rated Capacity	Btu/h	6,700	8,000	11,000			
Heating at 17° F *3	Rated Total Input Maximum Capacity	W Btu/h	600 12,200	720	1,020 18,000			
Heating at 5° F	Maximum Capacity	Btu/h	10,900	13,600	18,000			
Power Supply	Phase, Cycle, Voltage		,	1 Phase, 60Hz, 208/230V *4	,			
	Indoor - Outdoor S1 - S2			AC 208 / 230V				
Voltage	Indoor - Outdoor S2 - S3			DC ±24V				
	Indoor - Remote Controller		Wireless	Type (Optional Wired Controller	DC12V)			
	MCA	A		1.0				
	Blower Motor (ECM)	F.L.A.		0.67				
	Airflow at Cooling (Lo-Med-Hi- Super HI-Powerful) *1	DRY (CFM)	137-167-221-304-381	137-167-221-304-398 117-143-190-261-342	225-262-304-355-411			
	Airflow at Heating (Lo-Med-Hi-	WET (CFM)	117-143-190-261-328		194-225-261-305-354			
Indoor Unit	Super HI-Powerful) *2	WET (CFM)	140-167-225-325-437	140-167-225-325-454	201-254-317-394-497			
	Sound Pressure Level at Cooling (Lo-Med-Hi-Super HI-Powerful) *1	dB(A)	20-23-29-36-40	21-24-29-36-41	27-31-35-39-44			
	Sound Pressure Level at Heating (Lo-Med-Hi-Super HI-Powerful) *2	dB(A)	20-24-29-36-42	21-24-29-36-42	25-29-34-39-46			
	External Finish Color			Munsell No. 1.0Y 9.2 / 0.2	I			
	W: In.			36-7/16				
	Dimension Unit	D: In.		9-3/16				
	H: In.			12(+11/16)				
	Weight Unit	Lbs.		29				
	Field Drainpipe Size O.D.	In.		19/32				
Remote Controller	Туре			Select from MHK1 (Preferred), AA, or PAC-YT53CRAU Remote	Controlloro			
	MCA	А		11 16				
	MOCP	A		5	20			
	Fan Motor (ECM)	F.L.A.		50	0.93			
		Model (Type)		DC INVERTER-driven Twin Rotar				
	Compressor	R.L.A.	8	.2	12.0			
		L.R.A.		).3	15.0			
	Airflow (Cooling/Heating)	CFM	1,150	/1,280	1,190/1,320			
	Refrigerant Control			Linear Expansion Valve				
Outdoor Unit	Defrost Method	1		Reverse Cycle	1			
	Sound Pressure Level at Cooling *1	dB(A)	48	49	51			
	Sound Pressure Level at		40					
	Heating *2	dB(A)	49	51	55			
	External Finish Color	External Finish Color		Munsell No. 3Y 7.8 / 1.1				
	Dimensione	W: In.		1/2	33-1/16			
	Dimensions	D: In.	<u> </u>		13			
	Weight	H: In. Lbs.	81	83	34-5/8 124			
	-	LUS.	ŏI		124			
Pofrigoropt	Type Charge	Lbs., Oz.	0	R410A	3, 7			
Refrigerant	Oil	Type (fl. oz.)		9 350cc	3, 7 FV50S 400cc			
	Gas Side O.D.	In.		/8	1/2			
Refrigerant Pipe	Liquid Side O.D.	In.		1/4	1/2			
Defference Directory in	Height Difference (Max.)	Ft.	4	0	50			
Refrigerant Pipe Length	Length (Max.)	Ft.	6	5	100			
	Indoor/Outdoor	,	Flared/Flared					

MITSUBISHI ELECTRIC IS A WORLD LEADER IN PRODUCTS THAT HELP PEOPLE LIVE BETTER

When it comes to providing personalized comfort in every room of every building, we are here to help. No other company is as committed to creating environmentally friendly and affordable technology that's ideal for today's home and work environments no matter the size or shape. With over 30 years of industry leadership, we are proud to be America's #1 selling brand of ductless technology.

#### QUALITY

Mitsubishi Electric is consistently recognized by HVAC contractors as the #1 preferred brand with the highest quality rating among manufacturers. Our products provide extraordinary service life extending years beyond the norm.

#### PERFORMANCE

We deliver a complete range of compact and powerful cooling and heating products that are also intelligent, energy-efficient and quiet.

#### **TRAINING**

We provide comprehensive product and applications instruction through our regional training centers across the United States.

#### **SUPPORT**

We offer national TV and digital campaigns, co-op and advertising assistance, social media exposure and training, meSync apps for iPhone and iPad and the most experienced sales, engineering and service professionals.

#### GROWTH

With nearly 20 years of consistent double-digit percentage growth, we continue to lead the market's growth acceleration. Our products and services provide opportunities for distributors and contractors to enhance and grow their businesses.



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# PRODUCT OVERVIEW



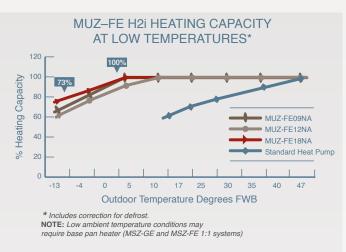
Features	Benefits
INVERTER-DRIVEN COMPRESSORS	Maximizes energy savings by using only the energy needed to perfectly cool or heat an area
EASY INSTALLATION	Installs quickly and easily, without the need for major construc- tion and remodeling
COMPLETE ZONE CONTROL	Realizes maximum control and energy efficiency by cooling and heating only those spaces in use
PERSONAL COMFORT CONTROL	Complete comfort control of temperature, fan speed, and air direction in each room or zone
CLEANER AIR WITH WASHABLE, ANTI-ALLERGEN FILTERS	Improves air quality and saves money
H2I <sup>®</sup> HYPER-HEAT PUMPS	Provides instant warmth even in extreme climates (down to -13° F)
ULTIMATE ENERGY EFFICIENCY	With higher SEER and HSPF ratings





Mitsubishi Electric systems feature the most advanced technology for delivering exceptional heat pump performance.

### H2i® TECHNOLOGY



**HEATING** even when it's -13° F outdoor ambient, producing up to 100% heating capacity at 5° F for MUZ-FE09/18 and 92% capacity at 5° F for MSZ-FE12

**YEAR-ROUND COMFORT** in extreme climates without the need for energy-consuming indoor supplemental heating devices

**HOT-START TECHNOLOGY** provides warmth from the start, reducing drafts

**MINIMAL MAINTENANCE** thanks to easily accessible filters, little or no ductwork to clean, and simple wiring between the indoor and outdoor units



### QUIETER THAN A HUMAN WHISPER.

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:

Our indoor units	19-34 decibels*
Whisper	30 decibels
Normal conversation	60 decibels
Vacuum cleaner	80 decibels
Circular saw	110 decibels
Ambulance siren	120 decibels

Did you hear that? We hope you did.

Source: National Institute for Occupational Safety and Health \*Smallest to largest capacity indoor unit at low speed M-Series systems utilize green technologies, and are much more efficient. Homeowners never have to sacrifice comfort over worries about high-energy costs.

- ▶ INVERTER technology results in substantial energy and utility savings for homeowners
- > Zone control for improved comfort and decreased energy usage
- Many ENERGY STAR® rated systems
- > SEER ratings as high as 26 dramatically better than conventional systems
- Local and state utility rebates and incentive opportunities
- Environmentally friendly R410A refrigerant with zero Ozone Depletion Potential (ODP)
- ▶ 83% of system components are recyclable
- Washable filters made from natural materials

Visit **dsireusa.org** for information on available local rebate opportunities from state or utility companies.



### Savings Opportunities

Mitsubishi Electric split-zoning, cooling-only and heat pump systems are so energy efficient that a majority of our INVERTER-driven systems are ENERGY STAR<sup>®</sup> 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.

For details on qualifying systems, go to **www.mitsubishicomfort.com/taxcredit**, or visit **www.dsireusa.org** for information on available local rebate opportunities from state or utility companies.

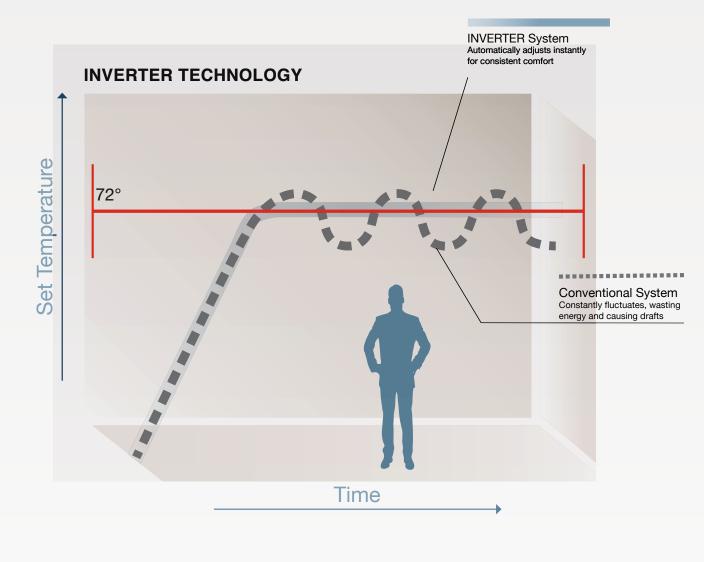




AHRI Reference #	Outdoor	Indoor	EER 95° F	SEER	HSPF	Tax Credit	Most Efficient
3575942	MUY-GE09NA	MSY-GE09NA	13.60	21.00	N/A	Yes	Yes
3575943	MUY-GE12NA	MSY-GE12NA	12.50	20.50	N/A	100	Yes
4934966	MUY-GE15NA-1	MSY-GE15NA	13.00	21.00	N/A	Yes	Yes
4217791	MUY-GE24NA	MSY-GE24NA	12.50	19.00	N/A	100	100
RESIDENTIAL HEAT F		MOT GEE IN/	12.00	10.00	14/74		
AHRI Reference #	Outdoor	Indoor	EER 95° F	SEER	HSPF	Tax Credit	Most Efficient
4908219	MUZ-FE09NA-1	MSZ-FE09NA	15.50	26.00	10.00	Yes	Yes
4934170	MUZ-FE12NA1	MSZ-FE12NA	12.90	23.00	10.50	Yes	Yes
4217888	MUZ-FE18NA	MSZ-FE18NA	14.20	20.20	10.30	Yes	Yes
3577499	MUZ-GE09NA	MSZ-GE09NA	13.60	21.00	10.00	Yes	Yes
3576362	MUZ-GE12NA	MSZ-GE12NA	12.50	20.25	10.00	Yes	Yes
4934349	MUZ-GE15NA-1	MSZ-GE15NA	13.00	21.00	10.00	Yes	Yes
4217872	MUZ-GE24NA	MSZ-GE24NA	12.50	19.00	10.00	Yes	
3589025	MXZ-2B20NA	MSZ-GE09NA + MSZ-GE09NA	12.50	18.00	8.90	Yes	
3577580	MXZ-2B20NA	Non-Ducted	12.00	18.00	8.90		
3949963	MXZ-3B24NA	MSZ-GE06NA + MSZ-GE06NA + MSZ-GE09NA	12.50	17.50	9.30	Yes	
3896180	MXZ-3B24NA	MSZ-GE06NA + MSZ-GE06NA + MSZ-GE12NA	12.50	17.50	9.30	Yes	
3885922	MXZ-3B24NA	Non-Ducted	12.00	17.50	9.30		
4385514	PUZ-HA30NHA4	PCA-A30KA	12.10	16.10	9.30		
4392937	PUZ-HA30NHA4	PEAD-A30AA	12.00	16.50	9.50		
4385513	PUZ-HA30NHA4	PKA-A30KA	12.00	16.50	9.50		
4385515	PUZ-HA30NHA4	PLA-A30BA	12.20	15.60	9.40		
4385518	PUZ-HA36NHA4	PCA-A36KA	12.10	16.60	10.30		
4393024	PUZ-HA36NHA4	PEA-A18AA(2)	12.50	16.80	10.40	Yes	
4392938	PUZ-HA36NHA4	PEAD-A36AA	12.10	16.80	10.40		
4385517	PUZ-HA36NHA4	РКА-АЗ6КА	12.00	16.20	10.00		
4385516	PUZ-HA36NHA4	PLA-A36BA	12.60	17.00	10.00	Yes	
3837466	SUZ-KA09NA	SEZ-KD09NA	12.00	15.00	10.00		
4415024	SUZ-KA09NA	SLZ-KA09NA	12.00	15.00	9.60		
3837467	SUZ-KA12NA	SEZ-KD12NA	12.50	16.00	10.00	Yes	
4415252	SUZ-KA12NA	SLZ-KA12NA	12.00	15.40	9.60		
3837469	SUZ-KA15NA	SEZ-KD15NA	12.00	15.50	10.00		
3837470	SUZ-KA18NA	SEZ-KD18NA	12.50	17.50	10.00	Yes	

Note: List is current as of this printing.

# PUT COMFORT ON CRUISE CONTROL





Sophisticated, electronic control systems detect any change in room or zone temperature and—like a car's cruise control—automatically adjust the speed of the outdoor unit's INVERTER-driven compressor for precise capacity and temperature control. Electronic LEVs exactly control refrigerant flow to regulate coil temperature.



Our indoor units use a sophisticated multi-part filtration system to reduce contaminants such as allergens, viruses and bacteria from the air. This combination of filters provides a healthier, breathing environment for the home.

### 1 HYBRID CATECHIN PRE-FILTER:

- Captures dust particles and absorbs odor-causing gases
- Hybrid-coating process makes the catechin filter washable and, if properly maintained with regular cleaning, remains effective for up to ten years

### PLATINUM CATALYST DEODORIZING FILTER:

#### AVAILABLE ON MSZ-FE9/12NA

- Features 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

### **3** BLUE-ENZYME ANTI-ALLERGEN FILTER:

# AVAILABLE ON MSZ-FE9/12NA AND MSY/Z-GE

- Reduces germs, bacteria and viruses
- Helps trap dust, pollens, mites and other particles
- Utilizes 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 (filter should be cleaned regularly to maintain effectiveness)



### MHK1 WIRELESS REMOTE CONTROLLER KIT

Includes Wireless Wall-mounted Remote Controller, Wireless Receiver and Cable. Portable Central Controller and Outside Air Sensor are optional accessories.



### Wireless Wall-Mounted Remote Controller and Wireless Receiver

- Installs anywhere with simple wall-mounted design
- Large, backlit, easy-to-read display
- Dual set-point control with system changeover
- Both controller and receiver enabled with RedLINK<sup>™</sup> reliability

The basic MHK1 Wireless Remote Controller Kit includes a Wireless Wall-mounted Remote Controller and a Wireless Receiver located with the indoor wall- or ceiling-mounted unit. You may choose to enhance your control convenience and flexibility with an optional Portable Central Controller, Outside Air Sensor and the new RedLINK<sup>™</sup> Internet Gateway.

### Optional MCCH1 Portable Central Controller

- Control up to 16 RedLINK<sup>™</sup> devices
- Requires MHK1 per indoor unit
- Monitor and control On/Off, Mode and Set Temperature
- Schedule override capability
- Does not interfere with other wireless devices
- Displays outside air temperature and humidity when used with MOS1 Outside Air Sensor



### Optional MOS1 Outside Air Sensor

- Monitors outside air temperature and humidity
- Displays on MHK1 Remote Controller and MCCH1 Portable Central Controller



### Optional RedLINK Internet Gateway (Available through select distributors)

- Connects any RedLINK Comfort System to the Internet to provide remote access from PC, smartphone or tablet
- No monthly fee, free app download
- Remotely monitor and control your cooling and heating system, at any time, from any place
- View/change system settings and access multiple systems/zones
- Provides over 90° temperature/comfort alerts through a dedicated website
- Upgrades automatically as new features become available





#### Wireless Technology

Just connect the Gateway device (far right) to your internet router, download the free app, register a serial number with the Gateway web site and pair the system with the RedLINK<sup>™</sup> enabled devices of your choice. You'll be ready to control in about 15 minutes.

### MHK1 FEATURES

FUNCTION	DESCRIPTION
ON/OFF	On/Off operation for a single indoor unit
Operation Mode	Cool / Drying / Auto / Heat / Fan operation modes dependent on connected system
Temperature Setting	Set temperature from 40° F - 99° F depending on operation mode and connected system
System Changeover Deadband Value	2° F - 8° F
Schedule Operation	5-2, 5-1-1
Optimal Start	Eliminates the guesswork when setting your schedule. Allows the remote controller to "learn" how long your split-zoning system takes to reach programmed temperature setting, so the temperature is reached at the time you set
Fan Speed Setting	Hi/Mid-2/Mid-1/Low/Auto Available fan speed settings dependent on connected system
Airflow Direction Setting	Airflow angles: 100° - 80° - 60° - 40° and oscillate available airflow direction settings dependent 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° F – 120° F Receiver: -40° F – 165° F
Operating Ambient Humidity	Remote Controller: 5% - 90% RH (non-condensing) Receiver: 5% - 90% RH (non-condensing)
Power Supply	2 AA batteries (included)

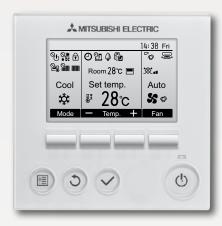
Note: MHK1 Compatible with current INVERTER-driven M-Series as noted in data charts.

### HAND-HELD COMFORT CONTROL

Mitsubishi Electric hand-held controllers can adjust temperature, fan speed, and more.







- Room Temperature: Displays room temperature sensed either at the indoor unit (default) or at the remote controller
- Set Temperature Range Limit: From the Backlit MA Controller, the allowable set temperature range can be reduced for cool and heat modes
- Function Lock Out: Prohibits all functions or all functions except On/Off from the backlit MA controller
- Wiring: connects using twowire, stranded, non-polar control wire to indoor unit connection terminal or control adapter (MAC-333IF for M-Series) requires crossover wiring for indoor unit grouping
- Dimensions: 4-3/4 x 3/4 x 4-3/4" (120 x 19 x 120 mm)
- Requires MAC-333IF-E to use with M-Series

### PAC-YT53CRAU SIMPLE MA CONTROLLER



Controls group operation for up to 16 indoor units in a single group

- Set temperature range limit: Simple MA allowable set temperature range can be reduced for cool and heat modes
- Room temperature can be sensed either at the indoor unit (default) or at the remote controller
- Grouping: Same group use only with other PAC-YT53CRAU Simple MA Controllers, PAR-31MAA Backlit MA Remote Controller, and PAR-FL/A32MA Wireless MA Remote Controllers with up to two remote controllers per group
- Wiring: Uses two-wire, stranded, non-polar control wire for connecting TB15 connection terminal on the indoor unit. Requires crossover wiring for grouping across indoor units
- Dimensions: 2-3/4 x 9/16 x 4-3/4" (70 x 14.5 x 120mm)
- Requires MAC-333IF-E to use with M-Series

### MAC-333IF-E SYSTEM CONTROL INTERFACE



- Allows M-Series indoor units to communicate with the CITY MULTI Controls Network via M-Net
- Provides an input to allow remote On/Off control of indoor unit (3-Wire plug adapter included)
- Allows the M-Series indoor units to connect to MHK1 Wall-Mounted Wireless Remote Controller when using other MAC-333IF-E functions
- (Note: External 12VDC power supply is required when adding the MHK1 to the MAC-333IF-E)
- Allows the M-Series indoor units to connect to a MA remote controller
- Power: 12V DC (supplied from indoor unit)
- Indoor unit connecting cable: Dedicated 5-wire cable included

All M-Series systems detect room temperature fluctuations and automatically adjust performance for ultimate comfort in any room.

- All indoor models feature a return air sensor that constantly monitors and maintains room temperature
- Continuous fan operation ensures temperature consistency
- Systems with an i-see Sensor<sup>™</sup> scan the room and adjust airflow based on ambient temperature readings (MSZ-FE09/12NA i-see Sensor models only)
- Auto changeover feature automatically switches between cooling and heating modes as needed to maintain a consistent temperature—just set it and forget it (MUZ and SUZ outdoor units)
- Seven horizontal airflow directions provide 150° of lateral airflow for greater conditioned air circulation (wide vane or swing mode, available on the MSZ-FE09/12/18, MSZ/Y-GE24 and MSZ/Y-D30/36NA)



This amazing technology constantly monitors and adjusts temperatures for maximum comfort and efficiency.

- Measures infrared radiation generated from surrounding walls and surface angles
- Efficiently adjusts temperatures to ideal comfort levels for occupants

#### Look for opportunities to use Mitsubishi Electric systems on every job!

Single and Multi-zone systems for Hot and Cold Spots, Living Rooms, Bedrooms, Kitchens, Allergy Problems, Renovations, Energy Savings Opportunities, Media Rooms, Basements, Combination with Traditional System, Whole Floor, Whole Home, New Homes...and more!

Properly installed systems heat and cool homes for a fraction of the cost of traditional systems. By following installation best practices and providing homeowner education, you will help to insure customer satisfaction, and increase referrals and sales. Visit a Mitsubishi Electric 2-day training course for more information. Ask your Mitsubishi Electric distributor for details.

#### **Outdoor Unit (Compressor)**

- Set the unit on a stable, level surface.
- Use adjustment risers to prevent debris and snow build-up and allow better drainage.
- Secure outdoor units to the pad, risers and/or surface using bolts and/or adhesives.

#### Line Set Insulation and Protection

- Insulation must cover entire line set length to avoid condensation and decreased efficiency.
- Once insulated, protect the outdoor portion of the line set with Line Hide to avoid premature insulation damage.
- Add UV tape as needed on areas without Line Hide to ensure entire length is protected.

#### **Refrigerant Charge**

- Adjust refrigerant charge ONLY IF NECESSARY; most installations do not require adjustments.
- Gauges are not needed to verify refrigerant levels. Only if adjustments are necessary, be sure to use a scale when adding/removing refrigerant.

#### **Condensate Drain**

• Must slope downhill and can be routed with line set and run to a suitable termination point, away from crawl spaces and walkways.

#### **Cold Climate Recommendations**

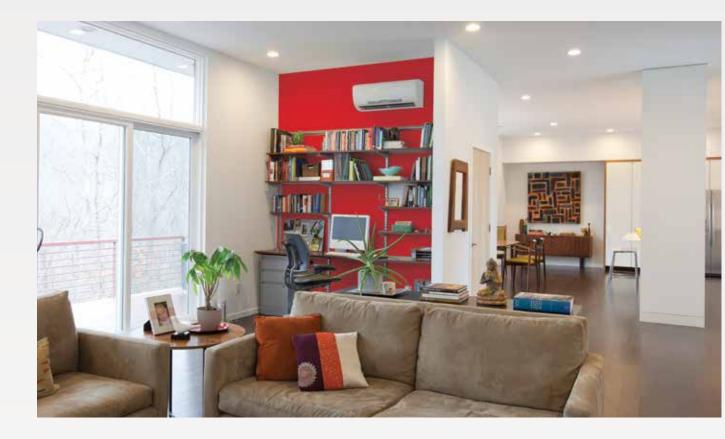
- Use a pan heater to avoid defrost discharge freezing inside the compressor.
- Increase clearance under the outdoor unit to promote easy drainage and reduce snow and ice buildup.
- Consider wall-mount brackets to maximize outdoor unit clearance.

#### Tools

- Ratchet Flaring Tool
- Programmable Refrigerant Charging Scale
- Torque Wrench
- R410A Gauge and Hose Set

#### Installation Tips for Maximum Efficiency–Indoors

- For homes with electric furnaces, consider shutting off the furnace at the breaker or set back the furnace thermostat so that it does not compete with the Mitsubishi Electric system.
- For homes with zonal electric heat, consider shutting off the heaters at the breaker or set back the zonal heater thermostats so they do not compete with the Mitsubishi Electric system.
- For temperature set back, set programmable thermostat to HEAT with the fan in ON position for air distribution and setting the temperature 4° F below the Mitsubishi Electric system.



#### **Homeowner Education**

Educate homeowners about their Mitsubishi Electric system to reduce callbacks and generate referrals:

- Use the Mitsubishi Electric system as the primary heating and cooling system to maximize benefits, maintain comfort and ensure that the unit performs most efficiently.
- Secondary heating and cooling systems should remain off until your comfort is compromised. If your comfort is compromised, supplement with your secondary system until your comfort requirements are met.
- In extremely cold weather, you can temporarily:
  - » Increase the temperature setting of the Mitsubishi Electric system
  - » Increase the fan speed
  - » Close doors to unoccupied portions of the house; and/or
  - » Increase the thermostat setting on secondary heating systems as needed
- Cleaning the filters several times a year optimizes the performance of the Mitsubishi Electric system. Monthly cleaning is ideal for systems that are used regularly.

For technical information including submittals, parts, installation, service and more please visit www.mylinkdrive.com



### MULTI-ZONE PRODUCTS

# M-SERIES MULTI-ZONE PRODUCTS AND FEATURES

### Total zone control: individually controlled rooms (up to 8) with a single outdoor system

With the MXZ-B multi-zone system your customers can enjoy ideal levels of comfort in the rooms you use most while reducing their energy costs. Each zone operates independently. People in different rooms –like the kitchen, master bedroom or living room – can set temperatures for personalized comfort.

MXZ-2B20 MXZ-3B24 MXZ-3B30 MXZ-4B36 MXZ-5B42 MXZ-8B48





#### THE MULTI-ZONE SYSTEM FEATURES INCLUDE:

- 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 options to tackle the most challenging multi-room installations
- High efficiency, multiple ENERGY STAR<sup>®</sup> combinations
- Simple, quick, and cost-effective installation
- Four-ton outdoor unit can support up to eight indoor units using branch boxes
- Advanced microprocessor control
- Auto restart following a power outage
- Self-check function offering integrated diagnostics
- Wired and wireless control options



#### WALL-MOUNTED INDOOR UNITS FOR MULTI-ZONE SYSTEMS

Cooling and Heating

Slim, wall-mounted indoor units provide zone comfort control. INVERTER-driven compressors and electronic LEVs provide higher efficiency with controlled power usage. The A-control feature powers the indoor unit from the outdoor unit, and should a power outage occur, the system is automatically restored when power returns.

#### MSZ-GE Heat Pumps | 06, 09, 12, 15, 18, 24

- 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



#### WALL-MOUNTED INDOOR UNITS FOR MULTI-ZONE SYSTEMS (CONT'D)

Cooling and Heating

#### MSZ-FE High Efficiency Heat Pumps | 09, 12, 18

- Quiet operation as low as 22 dB(A)
- Offers a wide vane for a wider angle of airflow, 150° from left to right (on FE18 models)
- Motorized horizontal vanes on FE09/12/18 models
- i-see Sensor<sup>™</sup> technology on FE09/12 models
- Triple filtration system on FE09/12 models

#### **CEILING-RECESSED INDOOR UNITS FOR MULTI-ZONE SYSTEMS**



#### Cooling and Heating

SLZ 2'x2' ceiling-recessed cassette units offer a wide airflow pattern for better air distribution in a less obtrusive style. Install SLZ in a hard ceiling (with an access panel for servicing) or in 2'x2' drop ceiling.

#### SLZ Heat Pumps | 09, 12, 15

- INVERTER-driven compressor
- Ventilation air knockouts
- Built-in condensate lift mechanism (up to 20")
- Offers a 2, 3, or 4 way airflow pattern



#### HORIZONTAL-DUCTED HEAT PUMPS FOR MULTI-ZONE SYSTEMS

#### Cooling and Heating

SEZ ducted units provide comfort and efficiency while staying hidden either in the ceiling or beneath the floor.

#### SEZ Heat Pumps | 09, 12, 15, 18

- INVERTER-driven compressor
- Built-in condensate lift mechanism (up to 22")
- Static capability up to 0.20" WG
- Optional filter box with MERV-8 filters



#### FLOOR-MOUNTED INDOOR UNITS FOR MULTI-ZONE SYSTEMS

#### Cooling and Heating

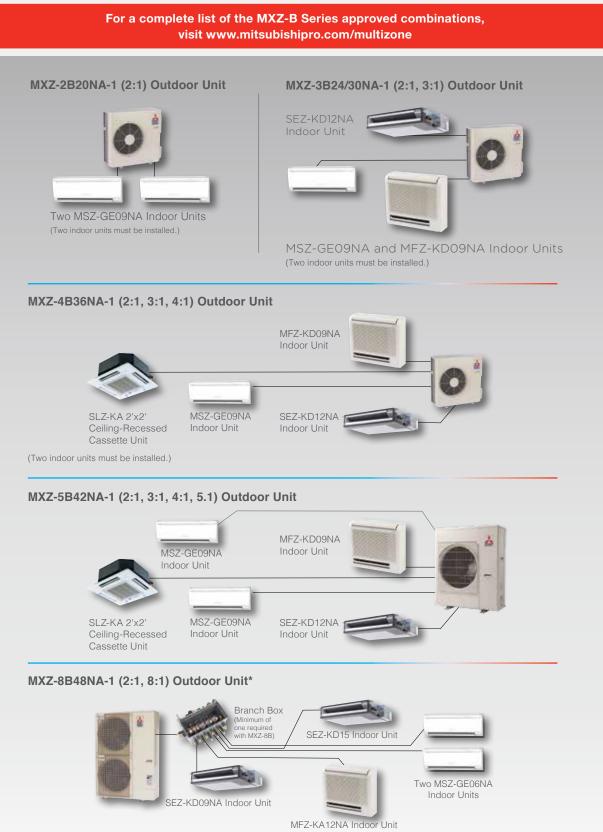
Floor-mounted indoor unit mounts on the floor or up to 5" above floor and has front panel access to the filter for ease of cleaning. It is perfect for difficult areas that may be smaller or don't have usable space on the walls.

#### MFZ Heat Pumps | 09, 12, 18

- Top and bottom discharge vanes
- Hot-start technology
- Quiet operation
- · Wireless remote control with smart set feature

Note: Select PLA, PCA, PEAD models are also compatible with select multi-zone MXZ-B systems. For full MXZ-B combinations list, **visit www.mitsubishipro.com/multizone** 





\*Illustration purposes only.

Minimum of two Indoor Units must be connected to all MXZ-B Outdoor Units. Minimum installed capacity cannot be less than 12,000 Btu/h.

### MULTI-ZONE SYSTEM POSSIBILITIES



MXZ Indoor Unit Compatibility Table—List of which units are compatible with which MXZ Multi-Zone Outdoor Units

Multi-Zone Outdoor Units	Indoor Units								
	MSZ-A/GA	MSZ-FD/FE	MSZ-GE	MFZ	SEZ	SLZ	PCA	PLA	PEAD
MXZ-2B20-1	1	1	9, 12, 15 🗸 6, 18, 24 (NO)	18 <mark>(NO)</mark>	9, 12, 15 🗸 18 <mark>(NO)</mark>	1	(NO)	(NO)	(NO)
MXZ-3B24	1	✓	24 (NO)	1	1	1	(NO)	18 / 12, 24 (NO)	(NO)
MXZ-3B30	1	✓	<ul> <li>Image: A start of the start of</li></ul>	1	1	1	24 🗸	18, 24 🗸 12 <mark>(NO)</mark>	24 🗸
MXZ-4B36	1	<i>✓</i>	<i>✓</i>	1	1	1	24 🗸	18, 24 🗸 12 <mark>(NO)</mark>	24 🗸
MXZ-5B42	1	1	1	1	1	1	24 🗸	18, 24 🗸 12 <mark>(NO)</mark>	24 🗸
MXZ-8B48	1	✓	1	1	1	1	1	12, 18, 24	24 🗸

Information is current as of this printing. There are NO indoor units larger than 24,000 Btu/h that can be connected to MXZ-B Systems. PLA-A12BA can NOT be connected with MXZ-2B20/3B24/3B30/4B36-1,5B42,8B48.

# SINGLE-ZONE PRODUCTS

### M-SERIES SINGLE-ZONE PRODUCTS AND FEATURES

Total control for total comfort: single rooms can now have ultimate comfort with the power of precise control over hot and cold spots.



**SINGLE-ZONE, WALL-MOUNTED HEAT PUMPS** *Cooling and Heating* Slim, wall-mounted indoor units provide zone comfort control. INVERTER-driven compressors and electronic LEVs provide higher efficiency with controlled power usage. The indoor unit is powered by the outdoor unit and should a power outage occur, the system is automatically restored when power returns.

#### MSZ/MUZ-GE/D Heat Pumps | 2,800-33,200 Btu/h Capacity Range

- 14.5–21 SEER, 8.2–10 HSPF, 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 basements, kitchens, guard houses and more

#### MSZ/MUZ-FE High Efficiency Heat Pumps | 3,100-25,200 Btu/h Capacity Range



- 20.2–26 SEER, 10–10.5 HSPF, INVERTER-driven compressor
- Quiet Operation as low as 22 dB(A)
- · 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 FE18 model
- Motorized vertical vanes on FE09/12/18 models
- i-see Sensor technology on FE09/12 models
- Triple filtration system on FE09/12 models
- H2i<sup>®</sup> high heat capabilities at low ambient temperatures100% heating capacity at 5° F for MUZ-FE09/18 and 92% capacity at 5° F for MSZ-FE12

## SINGLE-ZONE PRODUCTS (CONTINUED)



**SINGLE-ZONE, CEILING-RECESSED, CASSETTE HEAT PUMPS** *Cooling and Heating* SLZ 2'x2' ceiling-recessed cassette units offer a wide airflow pattern for better air distribution in a less obtrusive style. Install SLZ in a hard ceiling (with an access panel for servicing) or in 2'x2' drop ceiling.

#### SLZ/SUZ Heat Pumps | 3,100-17,700 Btu/h Capacity Range

- 15–16 SEER, 9.6 HSPF, INVERTER-driven compressor
- Provides cooling and heating in a wide range of capacities
- SLZ/SUZ-KA09/12/15 1:1 systems are ENERGY STAR® rated
- Ventilation air knockouts
- Built-in condensate lift mechanism (up to 20")
- Offers a 2, 3, or 4 way airflow pattern



**SINGLE-ZONE, HORIZONTAL-DUCTED HEAT PUMPS** *Cooling and Heating* SEZ ducted units provide comfort and efficiency while staying hidden either in the ceiling or beneath the floor. All 1:1 systems are ENERGY STAR<sup>®</sup> certified.

#### SEZ/SUZ Heat Pumps | 3,800–19,000 Btu/h Capacity Range

- 15–17.5 SEER, 10 HSPF, INVERTER-driven compressor
- Provides cooling and heating in a wide range of capacities
- Built-in condensate lift mechanism (up to 22")
- Static capability up to 0.20" WG
- Optional filter box with MERV-8 filters

### **Cooling Only**





#### SINGLE-ZONE, WALL-MOUNTED AIR CONDITIONERS Cooling-only

Cooling-only models operate quietly and efficiently to provide comfort in any room.

#### MS/MU Air Conditioners

- 13 SEER, non-INVERTER rotary compressor
- 9,500 and 12,000 Btu/h Capacity
- 115 volt, single phase
- Hand-held wireless remote controller only

#### MSY/MUY Air Conditioners | 3,800–34,600 Btu/h Capacity Range

- 15.1–21 SEER, INVERTER compressor
- Offers a wide vane for a wider angle of airflow, 150° from left to right
- Motorized vertical vanes on GE24/D30/D36 models
- Multiple ENERGY STAR® models available

M-Series systems are not recommended for critical room and low ambient cooling applications. Use commercial grade P-Series with full cooling capacity down to 0° F with wind baffle.

# M-SERIES ACCESSORIES

# CN-24RELAY-KIT-CM3 RELAY KIT



The CN-24RELAY-KIT-CM3 connects to the CN24 connector on the P-Series, SEZ and SLZ indoor unit control board to enable external supplemental heating equipment. The CN-24RELAY-KIT-CM3 also connects to the MAC-333IF-E System Control Interface to provide the same function for M-Series indoor units.

- Coil Voltage: 12V DC
- Power Consumption: 0.9 W or less
- Maximum Distance from indoor unit to relay: 32' (10m)
- Wire Size: 18 to 22 AWG



DPLS 1 DIAMONDBACK™ DRAIN PAN LEVEL SENSOR/CONTROL



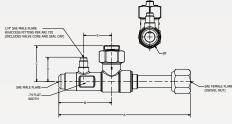
A condensate sensor designed to fit the Mitsubishi Electric M-Series, P-Series and almost all of CITY MULTI® indoor unit drain pans. DPLS1 shuts down the indoor unit when high condensate levels are detected in the drain pan.

- Meets the intent of International Mechanical Code "allowed exception to the secondary drain pan requirement"
- All solid state-no floats or other moving parts-battery powered
- Compact size with no additional energy consumption-timed intermittent sensing with built-in battery check
- Includes harnesses for M-Series, P-Series and CITY MULTI indoor units
- Does not disrupt communications between the outdoor unit, compressor, and indoor unit

# BALL VALVES







#### DIAMONDBACK™ BV-SERIES BALL VALVES

Diamondback BV-Series ball valves include the following features:

- Engineered for mini-split and multi-split HVAC units
- Full port design with flare connections
- 700 PSIG rated
- Flare connections

#### Other important information:

- 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
- Temperature range: -40° F to +325° F (-40° C to +149° C)
- Forged brass body and seal cap
- Polytetrafluroethylene (PTFE) seals and gaskets (no synthetic O-rings)
- Seal cap design permits valve operation without removal of seal cap
- One-year limited materials and workmanship warranty on ball valves

Part Number	SAE Flare	Α	в	С	D		F
BV14FFSI2	1/4"	6.26	2.67	1.81	1.23	1.42	1.10
BV38FFSI2	3/8"	6.30	2.67	1.81	1.23	1.42	1.10
BV12FFSI2	1/2"	6.51	2.67	1.81	1.23	1.42	1.10
BV58FFSI2	5/8"	6.64	2.67	1.81	1.23	1.42	1.10

\* Ball valves come with an insulation piece.

### PLATFORM STANDS

#### **DIAMONDBACK PLATFORM STANDS**

Lift the outdoor unit to new heights.

- Easy to install
- Available for all sizes of mini-split or multi-split systems
- Color matched to the outdoor units
- One-year warranty



Model DSD-400N L: 15 3/4" W: 3 1/4" H: 3 1/4"

# FILTER BOXES

#### FILTER BOXES

FB Series filter boxes are available in compatible sizes for all M-Series 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.

The cabinet is constructed of non-insulated 20 gauge, G-60 galvanized steel with a foam gasket and provides an air-tight connection to the indoor unit and access door. Gasket material complies with UL 723 requirements. In addition, a screw-through cabinet design for secure attachment to indoor unit and return connection in rear is easily field-converted to bottom return.



Part Number	Part Description
FBL1-1	FB Series Filter Box for SEZ-KD09NA4
FBL1-2	FB Series Filter Box for SEZ-KD12/15NA4
FBL1-3	FB Series Filter Box for SEZ-KD18NA4
FBM2-3	FB Series Filter for PEAD-A24/30AA4



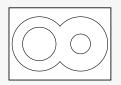


Caps On

#### DIAMONDBACK LINESETS

Diamondback linesets include the following features:

- Quick, efficient, and economical field installation using factory applied Twin Lube 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
- One year warranty



#### "TWIN-TUBE" LINESET INSULATION DESIGN

- Balanced outside diameter for uniform coil/uncoil position stability.
- Minimum 1/2" insulation thickness on both tubes
- Meets UL94 and ASTM E84 Standard

Lineset Part Number	Applied Models	Tube Size (IN.)	Length (FT.)	Insul.
MLS143812T-15	MS-A09, MSZ-GE06, MSZ/Y-GE09/12, MSZ-FE09/12, SEZ-KD09/12, MFZ-KA09/12, SLZ-KA09/12	1/4 x 3/8	15	1/2"
MLS143812T-30	MS-A09, MSZ-GE06, MSZ/Y-GE09/12, MSZ-FE09/12, SEZ-KD09/12, MFZ-KA09/12, SLZ-KA09/12	1/4 x 3/8	30	1/2"
MLS143812T-50	MS-A09, MSZ-GE06, MSZ/Y-GE09/12, MSZ-FE09/12, SEZ-KD09/12, MFZ-KA09/12, SLZ-KA09/12	1/4 x 3/8	50	1/2"
MLS143812T-65	MS-A09, MSZ-GE06, MSZ/Y-GE09/12, MSZ-FE09/12, SEZ-KD09/12, MFZ-KA09/15, SLZ-KA09/12	1/4 x 3/8	65	1/2"
MLS141212T-15	MS-A12, MSZ/Y- GE15/18, MFZ-KA18, SEZ-KD15/18, SLZ-KA15	1/4 x 1/2	15	1/2"
MLS141212T-30	MS-A12, MSZ/Y- GE15/18, MFZ-KA18, SEZ-KD15/18, SLZ-KA15	1/4 x 1/2	30	1/2"
MLS141212T-50	MS-A12, MSZ/Y- GE15/18, MFZ-KA18, SEZ-KD15/18, SLZ-KA15	1/4 x 1/2	50	1/2"
MLS141212T-65	MS-A12, MSZ/Y- GE15/18, MFZ-KA18, SEZ-KD15/18, SLZ-KA15	1/4 x 1/2	65	1/2"
MLS141212T-100	MS-A12, MSZ/Y- GE15/18, MFZ-KA18, SEZ-KD15/18, SLZ-KA15	1/4 x 1/2	100	1/2"
MPLS385812T-10	MSZ-FE18, MSZ/Y-GE24, MSZ/Y-D30/36	3/8 x 5/8	10	1/2"
MPLS385812T-15	MSZ-FE18, MSZ/Y-GE24, MSZ/Y-D30/36	3/8 x 5/8	15	1/2"
MPLS385812T-30	MSZ-FE18, MSZ/Y-GE24, MSZ/Y-D30/36	3/8 x 5/8	30	1/2"
MPLS385812T-50	MSZ-FE18, MSZ/Y-GE24, MSZ/Y-D30/36	3/8 x 5/8	50	1/2"
MPLS385812T-65	MSZ-FE18, MSZ/Y-GE24, MSZ/Y-D30/36	3/8 x 5/8	60	1/2"

# M-SERIES ACCESSORIES

ACCESSORY PART NUMBERS	USED WITH THESE MODELS	DESCRIPTIONS
BRP-1	SEZ-KD09 indoor unit	Bottom Return Plate (Converts low profile ducted indoor unit from rear return to bottom return)
BRP-2	SEZ-KD12/15 indoor units	Bottom Return Plate (Converts low profile ducted indoor unit from rear return to bottom return)
BRP-3	SEZ-KD18 indoor unit	Bottom Return Plate (Converts low profile ducted indoor unit from rear return to bottom return)
C21-014	All Blue Diamond Pumps	MultiTank Kit for MaxiBlue & MegaBlue Pumps
C13-103	All Blue Diamond Pumps	Blue Diamond Sensor Extension Cable - 15 Ft.
CN24 RELAY-KIT-CM3	All SEZ, SLZ indoor units	Relay Kit for external heater adapter connects to CN24 on indoor control board
CWMB1	All M-Series outdoor units	4 piece (1 pair) condensing unit wall mounting brackets - painted steel
DSD-400P	All M-Series outdoor units	Outdoor Unit 3-1/4 inch Mounting Base (Pair) - Plastic
E12A49527	MUZ-A09/12/15/17	Outdoor Unit Drain Pan Heater used during defrost cycle
F10-010	All Blue Diamond Pumps	Rubber Mounting / Isolation Pads (2) for MaxiBlue & MegaBlue Pumps
ICM-326HM-2	MU-A09/12WA Outdoor Units	Low Ambient Head Pressure Fan Controller(application also requires a 30-40 watt crankcase heater)
MAC-1100FT	MS12/15/17NN	Air Cleaning Filter
MAC-1300FT	MS09TW	Air Cleaning Filter
MAC-1415FT-E	MSZ/Y-D30/36	Anti-Allergy Enzyme Filter (qty of 2)
MAC-1600DF	MS12/15/17NN	Deodorizing Filter
MAC-1700FT	MS/MSH24WN	Air Cleaning Filter
MAC-1800DF	MS09TW	Deodorizing Filter
MAC-2200DF	MS/MSH24WN	Deodorizing Filter
MAC-2300FT-E	MSZ/Y-A24	Anti-Allergy Enzyme Filter (qty of 2)
MAC-2310FT-E	MSZ/Y-GE24, MSZ-FE18	Anti-Allergy Enzyme Filter (qty of 2)
MAC-308FT-E	MSZ-FD09/12, MSZ-FE09/12, MSZ/Y-GE06/09/12/15/18	Platinum Catalyst Deodorizing Filter
MAC-333IF-E	MSZ, MSY, MFZ, SEZ, and SLZ	System Control Interface - MA, Contact terminal, and M-NET Control Adapter, Supplemental heat and humidifier adaptor,
MAC-408FT-E	MSZ/Y-GE06/09/12/15/18	Anti-Allergy Enzyme Filter (qty of 2)
MAC-415FT-E	MSZ/Y-A09/12/15/17, MFZ-KA09/12/18	Anti-Allergy Enzyme Filter
MAC-418FT-E	MSZ-FD09/12, MSZ-FE09/12	Anti-Allergy Enzyme Filter
MAC-640BH-U	MUZ-GE09/12/15, MUZ-FE09/12, SUZ-KA09/12/15	Outdoor Unit Drain Pan Heater used during defrost cycle
MAC-641BH-U	MUZ-GE18, SUZ-KA18	Outdoor Unit Drain Pan Heater used during defrost cycle
MAC-642BH-U	MUZ-GE24, MUZ-FE18	Outdoor Unit Drain Pan Heater used during defrost cycle
MAC-811DS	MUZ/Y-D30/36	Outdoor drain pan socket—Provides pipe connection to route condensate out of drain pan
MAC-857G	MXZ-5B42	Outdoor air outlet guide for directing discharge air away from other outdoor unit
MAC-891SG	MXZ-2B20/3B24/3B30/4B36	Outdoor air outlet guide for directing discharge air away from other outdoor unit
MAC-860DS	MUZ-FE09/12/18, MSY/Z-GE24	Outdoor drain pan socket—Provides pipe connection to route condensate out of drain pan
MAC-886SG-E	MUZ-FE18, GE24	Outdoor air outlet guide for directing discharge air away from other outdoor unit
MAC-889SG	MUZ/Y-GE09/12/15/18/24, MUZ-FE09/12/18, MXZ-2B20	Outdoor air outlet guide for directing discharge air away from other outdoor unit
MAC-A454JP-E	All MXZ outdoor models and branch boxes	Port Adapter size: 3/8" X 1/2"
MAC-A455JP-E	All MXZ outdoor models and branch boxes	Port Adapter size: 1/2" X 3/8"
MAC-A456JP-E	All MXZ outdoor models and branch boxes	Port Adapter size: 1/2" X 5/8"
MCCH1	All M-Series indoor units equipped with MHK1 Controller	Portable Central Controller (PCC)—controls up to 16 RedLINK Zones—requires an MHK1 on each indoor unit
MHK1	All M-Series indoor units	Wireless wall-mounted remote controller (MRCH1) with a signal receiver (MIFH1) and cable (MRC1) all in one kit
	All M-Series indoor units equipped with MHK1 Controller	Outdoor Air Sensor—reads both outside temperature and humidity displayed on MRCH1 and MCCH1

ACCESSORY PART NUMBERS	USED WITH THESE MODELS	DESCRIPTIONS
MSDD-50AR-E	MXZ-8B48NA	Flared Connections for connecting two branch boxes
MSDD-50BR-E	MXZ-8B48NA	Brazed Connections for connecting two branch boxes
PAC-493PI	MXZ-3B30/4B36/8B48	Port Adapter size: 1/4" x 3/8"
PAC-715AD	All SEZ, SLZ indoor units	Wire for Remote on/off with CN32 connector
PAC-725AD	All SEZ, SLZ indoor units	Connector and wire for Operation status/error, booster fan control for fresh air using CN51
PAC-AKA31BC	MXZ-8B48NA only	Three Port Branch Box
PAC-AKA51BC	MXZ-8B48NA only	Five Port Branch Box
PAC-SE41TS-E	All SLZ indoor units	Remote temperature sensor for indoor units
PAC-SF40RM-E	All SEZ, SLZ indoor units	Remote Operation Adapter with wire terminals for remote on/off and operation status/error
PAC-SG59SG-E	MXZ-8B48NA (requires 2)	Outdoor air outlet guide for directing discharge air away from other outdoor unit
PAC-SG64DP-E	MXZ-8B48NA	External drain pan used for stacking Outdoor Units. Prevents drain water from dripping on the lower units
PAC-SG76RJ-E	MXZ-3B30/4B36/5B42/8B48	Port Adapter size: 3/8" x 5/8"
PAC-YT53CRAU	All MSZ/Y, MFZ, SEZ, SLZ indoor units	Simple MA Remote Controller (requires MAC-333IF-E interface for MSY/Z and MFZ indoor units)
PAR-31MAA	All M-Series Indoor Units	Multi-functional hard wired controller (used specifically for twinning, lead/lag and 7 day programmable applications) Requires MAC-333IF-E Adaptor
PAR-FA32MA	All SEZ, SLZ indoor units	Wireless Signal Receiver used with PAR-FL32MA
PAR-FL32MA	All SEZ, SLZ indoor units	Wireless Remote Controller used with PAR-FA32MA
RCMKP1CB	All M-Series Indoor Units	Lockdown Bracket for wireless, hand-held, remote controllers
SI30-115	MS-A09/12, MSZ/Y, MFZ indoor units	Mini-Condensation pump - 115 volt application
SI30-230	MS-A09/12, MSZ/Y, MFZ indoor units	Mini-Condensation pump - 230 volt application
TAZ-MS303	All M-Series Indoor Units	3-Pole Disconnect Switch 30 Amps 600 volts rated for interrupting power supply at/near indoor unit - fits 2 X 4 utility box
ULTRILITE1	All MU,MUY/Z outdoor units, SUZ outdoor units and MXZ-2B,3B,4B outdoor units	Condensing Unit Mounting Pad 16" x 36" x 3"
ULTRILITE2	MXZ-8B48NA	Condensing Unit Mounting Pad 24" x 42" x 3"
X87-711	MS-A09/12WA indoor units	Advanced Blue Diamond Mini-Condensation pump w/ Reservoir & Sensor - 110 volt application
X87-721	All MSZ/Y and all MFZ indoor units	Advanced Blue Diamond Mini-Condensation pump w/ Reservoir & Sensor - 208/230 volt application
X87-831	All M-Series Indoor Units	MegaBlue Pump 110v w/ reservoir sensor
X87-835	All M-Series Indoor Units	MegaBlue Pump 208- 230v w/ reservoir sensor

Rated Capacity

Model Name

# SINGLE-ZONE | MS Indoor Unit **Cooling Only**

Indoor Unit

**Outdoor Unit** 

Btu/h



### NON-INVERTER MS-A09WA MS-A12WA MU-A09WA MU-A12WA 9,500 12,000

	nateu oapaony	Dtu/II	3,300	12,000			
	Capacity Range	Btu/h	-	-			
Cooling *1	Total Input	W	870	1,070			
County	Energy Efficiency	SEER	1	3			
	Moisture Removal	Pints/h	2.7	3.2			
	Sensible Heat Factor	1	0.68	0.70			
ower Supply	Phase, Cycle, Voltage		1 Phase, 60Hz, 115V *2				
	Indoor - Outdoor L1-N			115V			
/oltage	Indoor - Outdoor N-2		AC 115V				
	Indoor - Remote Controller	1.		ss Type			
	MCA	A		.2			
	Blower Motor (ECM)	F.L.A.		95			
	Airflow (Lo-Med-Hi-Powerful)	DRY (CFM)	183-261-335-367	222-286-406-446			
		WET (CFM)	162-233-300-328	198-254-363-399			
la de se Helt	Sound Pressure Level (Lo-Med-Hi-Powerful)	dB(A)	26-32-40-42	33-38-45-47			
ndoor Unit	External Finish Color			1.0Y 9.2/0.2			
		W: In.		1/16			
	Dimension Unit	D: In.	8-	1/4			
		H: In.	11-	-3/4			
	Weight Unit	Lbs.	2	3			
	Field Drainpipe Size 0.D.	In.	5	/8			
Remote Controller	Туре		Hand-held Wireless	s Remote Controller			
	MCA	А	14	16			
	MOCP	(Time Delay) A	15	20			
	Fan Motor (ECM)	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		Capillary Tube				
	Sound Pressure Level						
	(Cooling) *1	dB(A)	47	52			
	External Finish Color	T	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			
	Туре			10A			
Refrigerant	Charge	Lbs., Oz.	2, 5	3, 1			
	Oil	Type (FI. Oz.)					
	Gas Side O.D.		3/8	1/2			
	Liquid Side O.D.	In.		/4			
Refrigerant Pipe	Height Difference (Max.)			5			
		Ft		5			
	Length (Max.)						
Connection Method	Indoor/Outdoor		Flared	/Fiared			

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

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

# SINGLE-ZONE | MSY Indoor Unit



	ng Only		Energy 2	-Engy	Energy		-Brangy		
	Indoor Unit		MSY-GE09NA-8	MSY-GE12NA-8	MSY-GE15NA-8	MSY-GE18NA-8	MSY-GE24NA	MSY-D30NA-8	MSY-D36NA-8
Model Name	Outdoor Unit		MUY-GE09NA	MUY-GE12NA	MUY-GE15NA-1	MUY-GE18NA-1	MUY-GE24NA	MUY-D30NA-1	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
	Total Input	W	660 (205-1,200)	960 (205-1,300)	1,080 (160-2,000)	1,640 (240-2,070)	1,800 (570-3,580)	3,380 (620-3,380)	4,240 (620-4,24
Cooling *1								,	
	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	5.1	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-pi	nase, 60Hz, 208 / 230	)V *2		
	Indoor - Outdoor S1 - S2					AC 208 / 230V			
Voltage	Indoor - Outdoor S2 - S3					DC ±24V			
	Indoor - Remote Controller	r .			Wireless Type	(Optional Wired Cont	roller: DC 12V)		
	MCA	A				1.0			
	Blower Motor (ECM)	F.L.A.			1	0.76	r	1	
	Airflow at Cooling (Quiet-Lo-Med-Hi-	DRY (CFM)	145-170-23	37-321-399	205-272-335- 420-533	230-275-339- 420-533	388-469-628-738	389-639	-848-887
	Super Hi or Lo-Med-Hi-Powerful)*1	WET (CFM)	109-134-20	01-286-364	170-237-300- 385-498	194-240-304- 385-498	347-420-562-661	350-576	-763-798
Indoor Unit	Sound Pressure Level at Cooling (Quiet-Lo-Med-Hi-Super Hi or Lo-Med-Hi-Powerful) *1	dB(A)	19-22-30-37-43	19-22-30-37-45	26-32-38-44-49	28-33-38-44-49	34-41-49-53	32-42-49-51	
	External Finish Color				M	unsell No. 1.0Y 9.2 /	0.2		
		W: In.		31-	7/16		43-5/16	46-	1/16
	Dimension Unit	D: In.		9-	1/8		9-3/8	11-	-5/8
		H: In.		11	-5/8		12-13/16	14-	-3/8
	Weight Unit		2	22		37	4	0	
	Field Drainpipe Size 0.D.	In.							
Remote Controller	Туре			Select fro	m MHK1 (Preferred),	PAR-31MAA, or PAC-	YT53CRAU Remote (	Controllers	
	MCA	A	12 14			14	17.1	2	21
	MOCP	A			15		20	2	25
	Fan Motor (ECM)	F.L.A.		0.50		0.93			
		Model (Type)	DC INVERT	ER-driven		DC IN	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
	Refrigerant Control				l	inear Expansion Valv	е		
	Sound Pressure Level at Cooling *1	dB(A)	46	4	19	54	5	55	56
	External Finish Color				N	1unsell No. 3Y 7.8 / 1	.1		
		W: In.		31-1/2			33-	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.			26
Type						R410A			
				0	. 9	3,7	4, 3		4
Definent	Charge	Lbs., Oz.	1, 12	1, 12 2, 9 NE022 (10.8) NE022					
Refrigerant	Charge Oil	Lbs., Oz. Type (fl. oz.)				2 (15.2)	FV50S (13.52)	NE022	2 (29.4)
Refrigerant Refrigerant				(10.8)	NE022	2 (15.2) /2	FV50S (13.52)	NE022 5/8	2 (29.4)
-	Oil	Type (fl. oz.)	NE022	(10.8) ′8	NE022		FV50S (13.52)		2 (29.4)
Refrigerant	Oil Gas Side O.D.	Type (fl. oz.) In.	NE022 3/	(10.8) ′8	NE022	/2		5/8	2 (29.4)
Refrigerant Pipe	Oil Gas Side O.D. Liquid Side O.D.	Type (fl. oz.) In. In.	NE022 3/	(10.8) /8 /4	NE022	/2	5	5/8 3/8	2 (29.4)

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

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

\$ = Federal Tax Credit

# SINGLE-ZONE | MSZ Indoor Unit | Heat Pump

			\$ CHURTY STAR			\$ Energy	S Conny C	
	Indoor Unit		MSZ-FE09NA-8	MSZ-FE12NA-8	MSZ-FE18NA	MSZ-GE09NA-8	MSZ-GE12NA-8	
Model Name	Outdoor Unit		MUZ-FE09NA-1	MUZ-FE12NA1	MUZ-FE18NA	MUZ-GE09NA	MUZ-GE12NA	
	Rated Capacity	Btu/h	9,000	12,000	18,000	9,000	12,000	
	Capacity Range	Btu/h	2,800-9,000	2,800-12,000	8,200-25,200	3,800-12,200	3,800-13,600	
	Total Input	W	580 (160-650)	930 (160-960)	1,270 (570-2,280)	660 (205-1,200)	960 (205-1,300)	
Cooling *1	Energy Efficiency	SEER	26	23	20.2	21	20.5	
	Moisture Removal	-	2.1	2.9	2.7	1.5	2.5	
	Sensible Heat Factor	Pints/h	0.76	0.73	0.84	0.82	0.74	
	Rated Capacity	Btu/h	10,900	13,600	21,600	10,900	14,400	
Heating at 47°	Capacity Range	Btu/h	3,000-18,000	3,000-21,000	7,500-29,700	4,500-14,100	5,500-18,100	
F *2	Total Input	W	710 (150-2,250)	950 (150-2,250)	1,540 (520-2,240)	760 (255-1,200)	1,170 (340-1,660)	
	HSPF (IV)	Btu/h/W	10	10.5	10.3	1	0	
lleating at 179	Rated Capacity	Btu/h	6,700	7,900	11,700	6,600	8,800	
Heating at 17° F *3	Rated Total Input	W	650	750	1,240	700	900	
	Maximum Capacity	Btu/h	12,500	13,600	21,600	8,700	11,200	
Heating at 5° F	Maximum Capacity	Btu/h	10,900	13,600	21,600	7,061	9,194	
Power Supply	Phase, Cycle, Voltage				1 Phase, 60Hz, 208/230V *	4		
Valtara	Indoor - Outdoor S1 - S2				AC 208 / 230V			
Voltage	Indoor - Outdoor S2 - S3			Wireless	DC ±24V Type (Optional Wired Control	ler DC1010		
	Indoor - Remote Controller MCA	A		WIFEIESS	1.0			
	Blower Motor (ECM)	F.L.A.			0.76			
	Airflow at Cooling (Lo-Med-Hi-Super	DRY (CFM)	162-226-339-381	162-226-381-410	388-469-628-738	145-170-237-321-399	145-170-237-321-399	
	HI-Powerful) *1	WET (CFM)	144-202-307-343	144-202-350-367	347-420-562-661	109-134-201-286-364	109-134-201-286-364	
	Airflow at Heating (Lo-Med-Hi-Super HI-Powerful) *2	WET (CFM)	166-240-367-381	166-240-399-420	388-469-628-738	145-170-237-321-406	145-170-237-321-406	
	Sound Pressure Level at Cooling (Lo- Med-Hi-Super HI-Powerful) *1	dB(A)	22-31-39-42	22-33-43-45	34-41-49-53	19-22-30-37-43	19-22-30-37-45	
ndoor Unit So Me	Sound Pressure Level at Heating (Lo- Med-Hi-Super HI-Powerful) *2	dB(A)	22-31-40-42	22-33-43-44	32-41-49-52	19-22-30-37-43	19-22-30-37-43	
	External Finish Color				Munsell No. 1.0Y 9.2 / 0.2			
		W: In.	31-	-3/8	43-5/16	31-	7/16	
	Dimension Unit	D: In.		-1/8	9-3/8		1/8	
		H: In.	11-	-5/8	12-13/16	11-	5/8	
	Weight Unit	Lbs.	2	27	37	2	2	
	Field Drainpipe Size 0.D.	In.	5/8					
Remote Controller	Туре			Select from MHK1 (Preferr	ed), PAR-31MAA, or PAC-YT	53CRAU Remote Controllers		
oontroner	MCA	A	1	2	17.1	1	2	
	MOCP	A	15		20		5	
	Fan Motor (ECM)	F.L.A.	0.	56	0.93 0.50			
		Model		D	DC INVERTER-driven Twin Rotary			
	Compressor	(Type)		D		1		
	Compressor	R.L.A.	-	.6	12.9	-	.6	
	Airflow (Cooling/Heating)	L.R.A. CFM		).8	16.1	8 1,151 / 1,225	.2	
	Refrigerant Control	GEINI	1,102	/ 1,187	1,769 / 1,701 Linear Expansion Valve	1,101/1,220	1,229 / 1,172	
Outdoor Unit	Defrost Method				Reverse Cycle			
	Sound Pressure Level at Cooling *1	dB(A)	/	8	55	46	49	
	Sound Pressure Level at Heating *2	dB(A)		19	55	50	51	
	External Finish Color	UD(A)	-		Munsell No. 3Y 7.8 / 1.1	50	51	
		W: In.	31-	-1/2	33-1/16	31-	1/2	
	Dimensions	D: In.		-1/4	13		1/4	
		H: In.		-5/8	34-5/8		5/8	
	Weight	Lbs.	8	80	119	66	77	
	Туре	·			R410A			
	Charge	Lbs., Oz.	2	, 9	4, 3	1, 12	2, 9	
Refrigerant	Charge				FV50S (13.5)	NE022	(10.8)	
Refrigerant	Oil	Type (fl. oz.)	NE022	( - )				
	Oil Gas Side O.D.	In.	3	/8	5/8			
	Oil Gas Side O.D. Liquid Side O.D.	In. In.	3	/8 /4	3/8	1	/4	
Refrigerant Refrigerant Pipe Refrigerant Pipe	Oil Gas Side O.D. Liquid Side O.D. Height Difference (Max.)	In. In. Ft.	3 1 4	/8 /4 /0	3/8 50	1.	/4 0	
Refrigerant Pipe	Oil Gas Side O.D. Liquid Side O.D.	In. In.	3 1 4	/8 /4	3/8	1.	/4	

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).

Outdoor: D.B. 93° 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 I Seven-year warranty on compressor. Five-year warranty on parts. \$ = Federal Tax Credit

# SINGLE-ZONE | MSZ Indoor Unit | Heat Pump



			Denergy		Deserge	C Income	
	Indoor Unit		MSZ-GE15NA-8	MSZ-GE18NA-8	MSZ-GE24NA	MSZ-D30NA-8	MSZ-D36NA ·
Model Name	Outdoor Unit		MUZ-GE15NA-1	MUZ-GE18NA-1	MUZ-GE24NA	MUZ-D30NA-1	MUZ-D36NA-
	Rated Capacity	Btu/h	14,000	17,200	22,500	30,700	33,200
	Capacity Range	Btu/h	3,100-18,200	3,700-18,700	8,200-31,400	9,800-30,700	9,800-33,200
	Total Input	W	1,080 (160-2,000)	1,640 (240-2,070)	1,800 (570- 3,580)	3,850 (620-3,850)	4,360 (620-4,3
Cooling *1	Energy Efficiency	SEER	21	19.2	19.0	14.	, , ,
	Moisture Removal	Pints/h	2.7	4.6	5.1	9.9	11.3
	Sensible Heat Factor	1 1110/11	0.80	0.71	0.75	0.64	0.62
	Rated Capacity	Btu/h	18,000	21,600	27,600	32,600	35,200
leating	Capacity Range	Btu/h	4,800-20,900	3,500-25,200	7,500-36,900	8,700-34,000	8,700-36,00
Heating at 47° F *2	. , ,						, ,
	Total Input	W	1,600 (270-2,010)	1,900 (230-2,680)	2,340 (520- 3,650)	3,360 (520-3,600)	3,840 (520-4,1
	HSPF (Region IV)	Btu/h/W	11.000	10	10.000	8.5	
Heating	Rated Capacity	Btu/h	11,300	13,400	16,000	19,500	21,800
at 17º F *3	Rated Total Input	W	1,150	1,450	1,770	2,620 *5	3,000 *5
	Maximum Capacity	Btu/h	15,900	17,200	24,600	20,800	22,800
Heating at 5° F	Maximum Capacity	Btu/h	13,022	13,562	21,160	16,305	19,090
Power Supply	Phase, Cycle, Voltage			1 Ph	ase, 60Hz, 208/230V *4		1
	Indoor - Outdoor S1-S2				AC 208 / 230V		
/oltage	Indoor - Outdoor S2-S3				DC ±24V		
	Indoor - Remote Controller			Wireless Type	Optional Wired Controller	: DC12V)	
	MCA Blower Motor (ECM)	A F.L.A.			<u> </u>		
	Airflow at Cooling (Lo-Med-Hi-Super	DRY (CFM)	205-272-335-420-533	230-275-339-420-533	388-469-628-738	389-639-	848-887
	HI-Powerful) *1	WET (CFM)	170-237-300-385-498	194-240-304-385-498	347-420-562-661	350-576-	
	Airflow at Heating (Lo-Med-Hi-SuperHI-						
	Powerful) *2 Sound Pressure Level (Cooling) (Lo-Med-Hi-	DRY (CFM)	205-247-304-367-463	230-275-339-431-512	388-469-628-738	445-639-	
ndoor Unit	Super HI-Powerful) *1 Sound Pressure Level (Heating) (Lo-Med-	dB(A)	26-32-38-44-49	28-33-38-44-49	34-41-49-53	32-42-	49-51
ŀ	Hi-Super HI-Powerful) *2		26-30-35-40-46	28-33-38-44-49	32-41-49-52	34-42-	49-50
	External Finish Color				nsell No. 1.0Y 9.2/0.2	1	
		W: In.	31-7/16	31-7/16	43-5/16	46-1	/16
	Dimension Unit	D: In.	9-1/8	9-1/8	9-3/8	11-5	5/8
		H: In.	11	-5/8	12-13/16	14-3	3/8
	Weight Unit	Lbs.		22	37	40	)
	Field Drainpipe Size 0.D.	In.					
Remote Controller	Туре		Sel	ect from MHK1 (Preferred), F	AR-31MAA, or PAC-YT53	CRAU Remote Controllers	3
	MCA	A	12	14	17.1	21	1
	MOCP	A		15	20	25	5
	Fan Motor (ECM)	F.L.A.	0.50		0.93		
		Model (Type)		DC INV	ERTER-driven Twin Rotary	У	
	Compressor	R.L.A.	7.4	10.0	12.9	16	6
		L.R.A.	9.3	12.5	16.1	20	)
	Airflow	CFM	1,243 / 1,229	1,730 / 1,659	1,769 / 1,701	1,94	41
	Refrigerant Control		, ,		near Expansion Valve	,	
Dutdoor Unit	Defrost Method				Reverse Cycle		
	Sound Pressure Level at Cooling *1	dB(A)	49	54	5	5	56
	Sound Pressure Level at Heating *2	dB(A)	51	56	55	57	7
	External Finish Color			M	unsell No. 3Y 7.8/1.1		
		W: In.	31-1/2		33-1/1	6	
	Dimensions	D: In.	11-1/4		13		
		H: In.	21-5/8	33-7/16	34-5/8	33-7	/16
	Weight	Lbs.	80	115	9	14	1
	Туре				R410A		
				0 7			10
Defrigerent		lba O-	2,9 3,7		4, 3	4, 10	
Refrigerant	Charge	Lbs., Oz.		NE022 (15.2)			(00.1)
Refrigerant	Charge Oil	Lbs., Oz. Type (Fl. Oz.)	NE02	2 (15.2)	FV50S (13.5)	NE022	(29.4)
Refrigerant	Charge Oil Gas Side O.D.	Type (Fl. Oz.)	NE02	2 (15.2) 1/2	FV50S (13.5)	5/8	(29.4)
-	Charge Oil		NE02	2 (15.2)	FV50S (13.5)		(29.4)
-	Charge Oil Gas Side O.D.	Type (Fl. Oz.) In.	NE02	2 (15.2) 1/2	FV50S (13.5)	5/8	(29.4)
Refrigerant Refrigerant Pipe	Charge Oil Gas Side O.D. Liquid Side O.D.	Type (Fl. Oz.)	NE02	2 (15.2) 1/2		5/8	(29.4)

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

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 Hor Lo. Host Conditions (and based on Anim 2 10/240.
 Atting 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 (neating)-Indoor: D.B. 70° F (21° C), W.B. 60° F (16° C);
 Rating conditions (neating)-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. \*5. Maximum Total Input

Specifications are subject to change without notice.

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

= Federal Tax Credit

# SINGLE-ZONE | SEZ Indoor Unit | Heat Pump



			-Energy	- Lerrer TAR	Court of C	Levery 2
	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	15	16	15.5	17.5
	Energy Efficiency Moisture Removal	Pints/h	1.5	2.4	2.6	3.4
	Sensible Heat Factor	PIIIts/II	0.80	0.76	0.80	0.79
		Dhu/h				
	Rated Capacity	Btu/h	10,900	13,600	18,000	21,600
leating at 47° F *2	Capacity Range	Btu/h	4,800-14,100	4,800-16,400	4,800-21,100	4,800-24,900
	Total Input	W	1,020	1,140	1,500	1,700
	HSPF (IV)	Btu/h/W	0 700	10		
	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
	Maximum Capacity	Btu/h	6,700	9,000	11,900	13,100
Power Supply	Phase, Cycle, Voltage			1 Phase, 60Hz,		
Voltage	Indoor - Outdoor S1 - S2			AC 208		
	Indoor - Outdoor S2 - S3			DC ±		
	MCA	A				
	Blower Motor (ECM)	F.L.A.	0.51	0.57	0	.74
	Airflow at Cooling/Heating (Lo-Med-Hi)	DRY (CFM)	194-247-317	247-317-388	353-441-529	423-529-635
		WET (CFM)	174-222-285	222-285-349	317-396-476	381-476-572
	External Static Pressure *3	In. W.G.		0.02-0.06		
	Sound Pressure Level (Lo-Med-Hi)	dB(A)	23-26-30	23-28-33	30-34-37	30-34-38
Indoor Unit	External Finish			Galvanized-		1
		W: In.	31-1/8	3		46-7/8
Di	Dimension Unit	D: In.		27-9	9/16	
		H: In.		7-7	7/8	
	Weight Unit	Lbs.	42	50	54	62
	Drain-lift Mechanism	H: In.		21-1	1/16	
	Field Drainpipe Size 0.D.	In.		1-1	1/4	
Remote Controller	Туре		Select from MHK1 (	Preferred), PAR-31MAA, PAC	-YT53CRAU, or PAR-FL/FA3	2 Remote Controllers
	MCA	A		12		14
	MOCP	A		1	5	•
	Fan Motor (ECM)	F.L.A.		0.50		0.93
		Model (Type)	DC In	iverter	DC Inverte	Twin Rotary
	Compressor	R.L.A.	6	.6	7.4	10
		L.R.A.	8	.2	9.3	12.5
	Airflow (Cooling/Heating)	CFM	1,151/1,225	1,229/1,172	1,243/1,229	1,730/1,659
	Refrigerant Control			Linear Expa	insion Valve	
Outdoor Unit	Defrost Method			Revers	e Cycle	
	Sound Pressure Level at Cooling *1	dB(A)	46	1	9	54
	Sound Pressure Level at Heating *2	dB(A)	50	5		56
	External Finish Color	- 17		Munsell No.		
		W: In.		31-1/2		33-1/6
	Dimensions					
		D: In.		11-1/4		13
		H: In.	07	21-5/8		33-7/16
	Weight	Lbs.	66	77	80	119
	Туре			R41		1 .
Refrigerant	Charge	Lbs., Oz.	2	2,		4
	Oil	Type (fl. oz.)		2 (10.8)		2 (15.2)
Refrigerant Pipe	Gas Side 0.D.	In.	3	/8		/2
	Liquid Side 0.D.	In.		1/	/4	
Pofrigorant Dina Land	Height Difference (Max.)	Ft.		40		50
Refrigerant Pipe Length	Length (Max.)	Ft.		65		100
				/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);

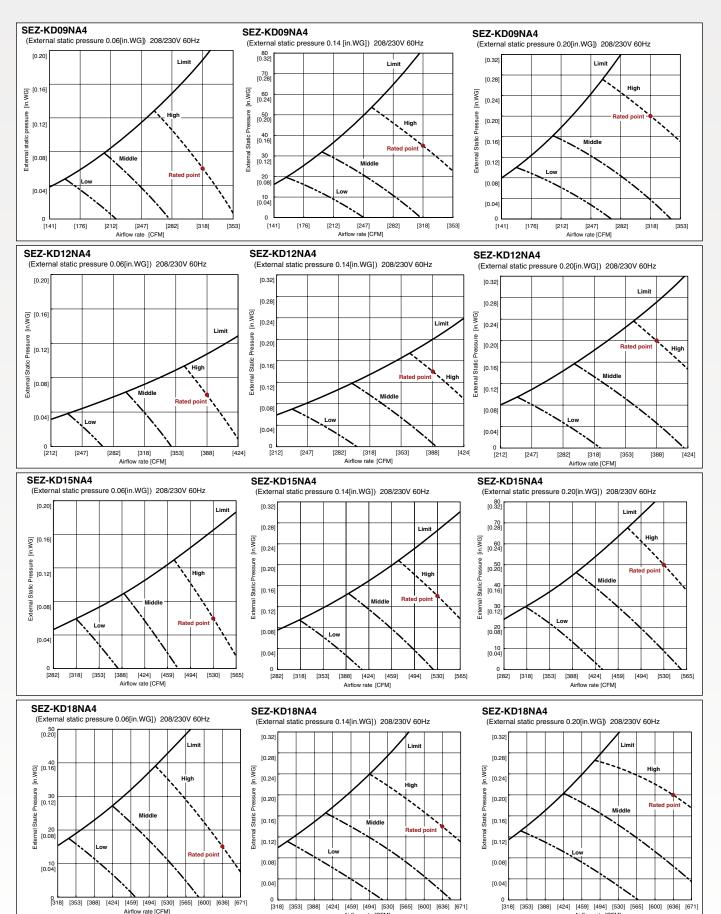
Outdoor: D.B. 17° F (-8° C), W.B. 15° F (-9° C). \*4. Indoor units receive power from outdoor units through field-supplied interconnected wiring.

Specifications are subject to change without notice.

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

\$ = Federal Tax Credit

# **SEZ Static Performance Curves**



Airflow rate [CFM]

Airflow rate [CFM]

# SINGLE-ZONE | SLZ Indoor Unit | Heat Pump



			-Bourgy	- Energy		
	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	3,400-13,300	3,800-17,700	
o " +	Total Input	W	700	920	1,460	
Cooling *1	Energy Efficiency	SEER	15	15.4	16	
	Moisture Removal	Pints/h	1.2	2.3	4.5	
	Sensible Heat Factor		0.84	0.77	0.67	
	Rated Capacity	Btu/h	10,900	13,600	18,000	
	Capacity Range	Btu/h	3,100-14,100	3,100-17,100	3,100-22,000	
Heating at 47° F *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	
5	Maximum Capacity	Btu/h	6,200	8,300	12,000	
Power Supply	Phase, Cycle, Voltage			1 Phase, 60Hz, 208 / 230V *		
	Indoor - Outdoor S1 - S2			AC 208-230V		
Voltage	Indoor - Outdoor S2 - S3			DC ±24V		
	MCA	A		1		
	Fan Motor (ECM)	F.L.A.	0.23	0.28	0.28	
		DRY (CFM)	280-320-350	280-320-390	280-320-390	
	Airflow at Cooling/Heating (Lo-Med-Hi)	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	
	External Finish	(		ed-Steel Sheets; Grille: Munsell		
Indoor Unit		W: In.		22-7/16 (25-5/8)		
	Dimension Unit (Grille)	D: In.		22-7/16 (25-5/8)		
		H: In.		9-1/4 (13/16)		
	Weight Unit (Grille)	Lbs.		36 (7)		
	Drain-lift Mechanism (Included)	H: In.		19-11/16		
	Field Drainpipe Size O.D.	In.		1-1/4		
Remote Controller	Туре		Select from MHK1 (Preferred).	PAR-31MAA, PAC-YT53CRAU, o	r PAR-FL/FA32 Remote Controllers	
	MCA	А		12		
	MOCP	A				
	Fan Motor (ECM)	F.L.A.		15 0.50		
		Model (Type)	DC INVERT		DC INVERTER-driven Twin Rota	
	Compressor	R.L.A.	6.		7.4	
		L.R.A.	8.		9.3	
	Airflow (Cooling/Heating)	CFM	1,151/1,225	1,229/1,172	1,243/1,229	
	Refrigerant Control	UT WI	Linear Expansion Valve			
Outdoor Unit	Defrost Method			Reverse Cycle		
	Sound Pressure Level at Cooling *1	dB(A)	46		49	
	Sound Pressure Level at Heating *2	dB(A)	50		51	
	External Finish Color	00(1)	00	Munsell No. 3Y 7.8/1.1	01	
		W: In.		31-1/2		
	Dimensione	D: In.		11-1/4		
	Dimensions					
		H: In.		21-5/8		
	Weight	Lbs.	66	77	80	
Defilment	Type	lha C-		R410A	0.0	
Refrigerant	Charge	Lbs., Oz.	2	(10.0)	2,9	
	Oil	Type (fl. oz.)	NE022		NE022 (15.2)	
Refrigerant Pipe	Gas Side O.D.	In.	3/		1/2	
	Liquid Side O.D.	In.		1/4		
Refrigerant Pipe Length	Height Difference (Max.)	Ft.		40		
	Length (Max.)	Ft.		65		
Connection 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);

1. Italing containing containin

\*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.

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

Specifications are subject to change without notice.

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

# MULTI-ZONE | MXZ-B | Heat Pump



Model N	Name	Outdoor Unit		MXZ-2B20NA-1 *5	MXZ-3B24NA-1 *6	MXZ-3B30NA-1	MXZ-4B36NA-1 *7	MXZ-5B42NA	
	0	Rated Capacity	Btu/h	18,000 / 20,000	22,000 / 23,600	28,400 / 27,400	35,400 / 34,400	40,800 / 37,200	
	Cooling *1 Non-ducted/	Canaait, Danca	Dłu /h	7 000 00 000	12,600-22,000 /	12,600-28,400 /	12,600-36,400 /	12,600-43,000 /	
	Ducted	Capacity Range	Btu/h	7,800-20,000	12,600-25,500	12,600-27,400	12,600-34,800	12,600-41,000	
		Total Input	W	2,190 (630-2,190)	2,460 (1,000-2,950)	3,330 (1,000-3,330)	3,940 (1,000-4,020)	4,800 (1,010-4,800)	
		Rated Capacity	Btu/h	22,000 / 22,000	25,000 / 24,600	28,600 / 27,600	36,000 / 34,400	45,200 / 41,200	
*	Heating at 47° F *2 Non-ducted/	Capacity Range	Btu/h	8,500-25,500	11,400-30,200 / 11,400-29,400	11,400-36,000 / 11,400-35,000	11,400-43,000 / 11,400-41,400	11,400-53,600 / 11,400-51,600	
	Ducted	Total Input	W	2,620 (520-2,620)	1,900 (740-2,600)	2,220 (740-2,820)	3,100 (740-3,940)	3,780 (750-5,100)	
		Rated Capacity	Btu/h	12,500 / 12,500	14,000 / 14,000	16,000 / 15,100	22,200 / 20,300	23,100 / 21,800	
	Heating at 17° F '3 Non-ducted/	Rated Total Input	W	1,350 / 1,430	1,380 / 1,570	2,120 / 2,140	2,430 / 2,340	2,930 / 2,850	
	Ducted	Maximum Capacity	Btu/h	14,500 / 12,500	18,800 / 17,000	18,800 / 18,000	24,600 / 25,400	30,500 / 29,100	
Ľ	Duotou	Maximum Total Input	W	1,500 / 1,430	2,120 / 2,230	2,120 / 2,140	3,340 / 3,450	4,800 / 5,550	
ŀ	Heating at 5° F	Maximum Capacity	Btu/h	11,113	13,336	15,704	18,671	26,000	
Power Supply	-	Phase, Cycle, Voltage			1-	phase, 60Hz, 208 / 230V	'8		
		Indoor - Outdoor S1 - S2				AC 208 / 230V			
Voltage		Indoor - Outdoor S2 - S3			DC ±24V				
		MCA	A	15	1	8	23	36.2	
		MOCP	A		20	-	25	40	
		Fan Motor (ECM)	F.L.A.	0.96		0.93		1.90	
			Model (Type)	0100	DCI	NVERTER-driven Twin Rot	arv	1100	
		Compressor	R.L.A.	10.1	1			1.4	
		00110103301	L.R.A.	10.1	15			27	
		Airflow (Cooling/Heating)	CFM	1,485 / 1,640	2,068 / 1,605	1,365 / 1,605	2,068 / 2,068	2,467 / 2,467	
		Refrigerant Control	01101	1,4037 1,040	2,00071,003	Linear Expansion Valve	2,00072,000	2,401 / 2,401	
		Defrost Method				Reverse Cycle			
Outdoor Unit *4		Sound Pressure Level at				TIEVEISE Gyüle			
		Cooling *1	dB(A)	49	54 49		54	58	
		Sound Pressure Level at Heating *2	dB(A)	51	4	9	57	58	
		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		12-19/32	
			H: In.	27-15/16		35-7/16		42-1/8	
		Weight	Lbs.	130	1!		153	192	
Indoor Unit		No. of Units		2	2, 3	2, 3	2, 3, 4	2,3,4,5	
Remote Controller	r	Туре			Ass	sociated with the Indoor U	nit		
		Туре				R410A			
		Charge	Lbs., Oz.	5, 15	7,		8, 13	10,9	
Refrigerant		Oil	Type (fl. oz.)	NE022 (23.7)	- ,	NE022 (29.4)	1 / -	FV50S (36.2)	
		Gas Side O.D.	In.	A,B: 3/8	A: 1/2;	B C: 3/8	A: 1/2; B,C,D: 3/8	A: 1/2; B,C,D,E: 3/8	
Refrigerant Pipe		Liquid Side 0.D.	In.	n,u. 0/0	A. 1/2,	1/4	7. 1/2, 0,0,0. 0/0	7.1.1/2, 0,0,0,C. 3/0	
		Height Difference (Max.)	Ft.		-	49/33 *9			
		, , , , , , , , , , , , , , , , , , ,	FL.			49/33 "9			
Refrigerant Pipe Lei	ngth	Lineset length for each indi- vidual indoor unit (Max.)	Ft.			82			
		Length (Max.)	Ft.	164 (A+B)	230 (A	+B+C)	230 (A+B+C+D)	262 (A+B+C+D+E)	
Connection Metho	bd	Indoor/Outdoor				Flared/Flared			

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 37-40 for Indoor Unit specifications.
 \*5. Data from combination of two Indoor Units 9,000 Btu/h (non-ducted) or one 9,000 Btu/h and one 12,000 Btu/h (ducted).

See page 41 for MXZ-B efficiency information.

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

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

\*8. Indoor units receive power from outdoor units through field-supplied interconnected wiring. \*9. 49' Applies to installations where the outdoor unit is installed below the indoor unit.

Power factor equals 97%.

Specifications are subject to change without notice.

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

# MULTI-ZONE | MXZ-B | Heat Pump

Ma	del Name	Outdoor Unit		MXZ-8B48NA
	0 11 11	Rated Capacity	Btu/h	48,000 / 48,000
	Cooling *1 Non-ducted/Ducted	Capacity Range	Btu/h	12,000-70,200
	Non-ducted/Ducted	Rated Total Input	W	5,780 / 6,470
		Rated Capacity	Btu/h	54,000 / 54,000
	Heating at 47° F *2	Capacity Range	W	12,000-70,200
Indoor Unit	Non-ducted/Ducted	Rated Total Input	Btu/h	4,820 / 5,270
		Rated Capacity	Btu/h	33,000 / 34,700
	Heating at 17° F *3	Rated Total Input	W	2,950 / 3,390
	Non-ducted/Ducted	Maximum Capacity	Btu/h	36,600 / 36,500
	Heating at 5° F	Maximum Capacity	Btu/h	32,400
Power Supply	1	Phase, Cycle, Voltage		1 Phase, 60Hz, 208 / 230V
		Indoor - Outdoor S1 - S2		AC 208-230V
Voltage		Indoor - Outdoor S2 - S3		DC ±24V
		MCA	A	32
		Recommended Fuse/Breaker Size	A	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	
			37-7/16	
		Dimensione	W: In.	
		Dimensions	D: In.	13+1-3/16
		Weight	H: In. Lbs.	53-3/16 278
		Total Capacity 22%-130%	Btu/h	12,000 - 70,200
Indoor Unit		Total Connected Capacity	Dta/II	6,000-24,000 / 2-8
		1		Associated with
Remote Contro	oller	Туре		Indoor Unit Model
		Туре		R410A
		Charge	Lbs., Oz.	18, 11.2
Refrigerant		Oil	Type (fl. oz.)	FV50S (73)
		Gas Side O.D.	In.	5/8
Refrigerant Pi	be	Liquid Side O.D.	In.	3/8
		Height Difference (Max.)	Ft.	66/98 *4
		Maximum distance between (Outdoor	Ft.	230
		unit and farthest indoor unit) Maximum pipe length - Branch box to Indoor Unit	Ft.	49
Refrigerant Pip	e Length	Total maximum line length between branch box and all connected indoor units	Ft.	197*
		Length from outdoor unit to branch box (Max.)	Ft.	180
			Ft.	· · · · · · · · · · · · · · · · · · ·
		Total length (Max.)	377	

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),
- W.B. 73 F (2<sup>+</sup> 0).
   \*2. Rating conditions (heating)-Indoor: D.B. 70° F (2<sup>1</sup>° 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).
- \*4.66' applies to installations when the outdoor unit is installed below the indoor unit.
- Power factor equals 97%.

Specifications are subject to change without notice.

Note: Maximum connected 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 41 for MXZ-B efficiency information.

#### Branch Boxes:

(At least one branch box required)



PAC-AKA51BC



PAC-AKA31BC

\*Includes both branch boxes if there are two.

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

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

### MULTI-ZONE | MSZ Indoor Units | Heat Pump (FOR MXZ-B OUTDOOR UNITS)



Model Name	Indoor L	Init	MSZ- Fe09NA-8	MSZ- FE12NA-8	MSZ-FE18NA	MSZ- Geo6na-8	MSZ- Geo9na-8	MSZ- GE12NA-8	MSZ- GE15NA-8	MSZ- GE18NA-8	MSZ-GE24N/		
Cooling *1	Rated Capacity	Btu/h	9,000	12,000	18,000	6,000	9,000	12,000	14,000	17,200	22,500		
Heating at 47° F *2	Rated Capacity	Btu/h	10,900	13,600	21,600	7,200	10,900	14,400	18,000	21,600	27,600		
Power Supply	Phase, Cycle, Volta	ge				1-pha	ise, 60Hz, 208 / 2	30V *3					
	Indoor - Outdoor S	I - S2	AC 208 / 230V										
Voltage	Indoor - Outdoor S	2 - \$3		DC ±24V									
	MCA	А					1.0						
	Blower Motor	F.L.A.		0.76									
(Quiet-Lo-Med- Hi-Super Hi or Lo-Med-Hi- Powerful)*1 Airflow at Heatin	Airflow at Cooling (Quiet-Lo-Med-	DRY (CFM)	162-226-339- 381	162-226-381- 410	388-469-628- 738	145-170-23	37-321-399	145-170-237- 321-399	205-272-335- 420-533	230-275-339- 420-533	388-469-628 738		
	Lo-Med-Hi-	WET (CFM)	144-202-307- 343	144-202-350- 367	347-420-562- 661	109-134-20	109-134-201-286-364		170-237-300- 385-498	194-240-304- 385-498	347-420-562 661		
	Lo-Med-Hi-	WET (CFM)	166-240-367- 381	166-240-399- 420	388-469-628- 738	145-170-233- 321-406	145-170-237- 321-406	145-170-237- 321-406	205-247-304- 367-463	230-275-339- 431-512	388-469-628 738		
Sound Pressure L (Quiet-Lo-Med-Hi Med-Hi-Powerful)	-Super Hi or Lo-	dB(A)	22-31-39-42	22-33-43-45	34-41-49-53	19-22-30-37-43		19-22-30- 37-45	26-32-38- 44-49	28-33-38- 44-49	34-41-49-53		
Sound Pressure L (Quiet-Lo-Med-Hi Med-Hi-Powerful)	-Super Hi or Lo-	dB(A)	22-31-40-42	22-23-43-44	32-41-49-52	19-22-30-37-43		19-22-30- 37-43	26-30-35- 40-46	28-33-38- 43-49	32-41-49-52		
External Finish Co	lor	1		Munsell No. 1.0Y 9.2 / 0.2									
		W: In.	31-	3/8	43-5/16			31-7/16			43-5/16		
Dimension Unit		D: In.	10-	1/8	9-3/8			9-1/8			9-3/8		
		H: In.	11-	5/8	12-13/16			11-5/8			12-13/16		
Weight Unit		Lbs.	2	7	37			22			37		
Field Drainpipe Si	ze 0.D.	In.					5/8						
Remote Controller	Туре				Select from M	HK1 (Preferred), P	AR-31MAA, or PA	C-YT53CRAU Rem	ote Controllers				
Refrigerant	Туре						R410A						
Refrigerant Pipe	Gas Side O.D.	ln.	3/	/8	5/8		3/8		1	/2	5/8		
nemyerani ripe	Liquid Side O.D.	ln.	1/	/4	8			1/4			3/8		
Connection 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. Indoor units receive power from outdoor units through field-supplied wiring.

Specifications are subject to change without notice.

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

For data on specific indoor unit combinations, visit www.mitsubishipro.com/multizone.

### SEZ Ducted Indoor Unit | Heat Pump (FOR MXZ-B OUTDOOR UNITS)



Model Name	Indoor Unit		SEZ-KD09NA4	SEZ-KD12NA4	SEZ-KD15NA4	SEZ-KD18NA4			
Cooling *1	Rated Capacity	Btu/h	8,100	11,500	14,100	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	8-230V				
Voltage	Indoor - Outdoor S2-S3			DC =	±24V				
	MCA	А	1.0						
	Blower Motor (ECM)	F.L.A.	0.51	0.57	0.	74			
Fan	Airflow at Cooling/Heating (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 (L	Sound Pressure Levels (Lo-Med-Hi) dB(A)			23-28-33	30-34-37	30-34-38			
External Finish				Galvanized-	steel Sheets				
		W: In.	31-1/8 39 46-7/8						
Dimension		D: In.	27-9/16						
		H: In.	7-7/8						
Weight		Lbs.	42	50	54	62			
Drain-lift Mechanism (Inc	luded)	H: In.	21-11/16						
Field Drainpipe Size 0.D.		In.		1-	1/4				
Remote Controller	Туре		Select from MHK1 (P	referred), PAR-31MAA, PAC	-YT53CRAU, or PAR-FL/FA3	2 Remote Controllers			
Refrigerant	Туре			R4	10A				
Defeisement Die e	Gas Side O.D.	1	3.	/8	1.	/2			
Refrigerant Pipe	Liquid Side O.D.	In.		1.	/4				
Connection Method	·			Flared	/Flared				
Connection Method				Flared	/Flared				

NOTES: Test conditions are based on AHRI 210/240. \*1. Rating conditions (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. Rating conditions (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 remote controller.

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

Specifications are subject to change without notice.

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

- Reference page 34 for SEZ static performance curves.



# MFZ Floor-mounted Indoor Unit | Heat Pump (FOR MXZ-B OUTDOOR UNITS)

Model Name	Indoo	r 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-phase, 60Hz, 208 / 230V *3				
	Indoor - Outdoor S1 - S2			AC 208 / 230V			
Voltage	Indoor - Outdoor S2 - S3			DC ±24V			
	MCA	А	1				
	Airflow at Cooling/Heating	DRY (CFM)	169-205-251-314	177-215-261-321	251-279-325-394		
Fan	(Lo-Med-Hi)	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 at Coo (Lo-Med-Hi-Super Hi) *1	ling	dB(A)	25-30-35-40	26-31-36-41	35-38-42-46		
Sound Pressure Level at Hea (Lo-Med-Hi-Super Hi) *2	ting	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 0.D.		In.		5/8			
Remote Controller	Туре		Select from MHK1 (Pre	ferred), PAR-31MAA, or PAC-YT53Cl	RAU Remote Controllers		
Refrigerant	Туре			R410A			
Refrigerant Pipe	Gas Side O.D.	In.	3	/8	1/2		
	Liquid Side O.D.	In.		1/4			
Connection Method	Indoor/Outdoor			Flared/Flared			

NOTES: Test conditions are based on AHRI 210/240. \*1. Rating conditions (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. Rating conditions (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 I 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 | Heat Pump



Model Name	Indoor Unit		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, Voltage			1-phase, 60Hz, 208 / 230V *3		
	Indoor - Outdoor S1 - S2			AC 208 / 230V		
Voltage	Indoor - Outdoor S2 - S3			DC ±24V		
	MCA	А		1		
	Fan Motor (ECM)	F.L.A.	0.23	0.28	0.28	
Fan	Airflow at Cooling/	DRY (CFM)	280-320-350	280-320-390	280-320-390	
	Heating (Lo-Med-Hi)	WET (CFM)	250-290-320	250-290-350	250-290-350	
Sound Pressure Level (Lo-Med	Sound Pressure Level (Lo-Med-Hi) *2		29-32-38 30-34-39		31-35-40	
External Finish Color	External Finish Color		Galvanized-steel Sheets/Munsell 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.	9-1/4 (13/16)			
Weight Unit (Grille)		Lbs.	36 (7)			
Drain-lift Mechanism (Include	(b	H: In.	19-11/16			
Field Drainpipe Size 0.D.		ln.	1-1/4			
Remote Controller		Туре	Select from MHK1 (Preferred),	PAR-31MAA, PAC-YT53CRAU, or P/	AR-FL/FA32 Remote Controllers	
Refrigerant Type			R410			
Refrigerant Pipe	Gas Side O.D.	In.	3/8 1/2			
nen geränt ripe	Liquid Side O.D. In.		1/4			
Connection Method	Indoor/Outdoor		Flared/Flared			
Connection Method Indoor/Outdoor			Flared			

NOTES: Test conditions are based on AHRI 210/240. \*1. Rating conditions (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. Rating conditions (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 I Seven-year warranty on compressor. Five-year warranty on parts.

### ADDITIONAL M-SERIES INFORMATION

#### **M-SERIES OPERATING CONDITIONS**

		INDOOR INTAKE AIR TEMPERATURE	OUTDOOR INTAKE AIR TEMPERATURE
COOLING	MAXIMUM	95° F D.B., 71° F W.B. (MU; SUZ; MXZ-2B20/3B24/3B30/ 4B36-1,5B42) 90° F D.B., 73° F W.B. (MUZ/Y-GE; MUZ-FE; MUZ/Y-D)	115° F D.B. (MU; MUZ/Y-GE; MUZ/Y-D; MUZ-FE; SUZ; MXZ-2B20/3B24/3B30/4B36-1,5B42,8B48)
	MINIMUM	67° F D.B., 57° F W.B. (MU; MUZ/Y-GE; MUZ/Y-D; MUZ-FE; SUZ; MXZ-2B20/3B24/ 3B30/4B36-1,5B42)	14° F D.B. (MUZ/Y-GE; MUZ/Y-D; MUZ-FE; SUZ; MXZ-2B20/3B24/3B30/4B36-1,5B42) 23° F D.B. (MXZ-8B48) 67° F D.B. (MU)
	MAXIMUM	80° F D.B., 67° F W.B. (MU; MUZ/Y-GE; MUZ/Y-D; MUZ-FE; SUZ; MXZ-2B20/3B24/ 3B30/4B36-1,5B42)	75° F D.B., 65° F W.B. (MUZ/Y-GE; MUZ/Y-D; MUZ-FE; SUZ; MXZ-B20/3B24/3B30/4B36-1,5B42) 70° F D.B. (MXZ-8B48)
HEATING	MINIMUM	70° F D.B., 60° F W.B. (MUZ-GE; MUZ-D; MUZ-FE; SUZ; MXZ-2B20/3B24/3B30/ 4B36-1,5B42)	-13° F D.B., -15° F W.B. (MUZ-FE) -4° F D.B., -5° F W.B. (SUZ; MUZ-GE) 5° F D.B., 4° F W.B. (MXZ-8B48NA) 6° F D.B., 5° F W.B. (MXZ-2B20/3B24/3B30/4B36-1,5B42) 14° F D.B., 13° F W.B. (MUZ/Y-D)

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

### MULTI-ZONE EFFICIENCY RATINGS

MODEL	INDOOR UNIT TYPE	SEER	HSPF
	Non-ducted	18	8.9
MXZ-2B20NA-1	Ducted and Non-ducted	16.75	8.7
	Non-ducted Ducted and Non-ducted Ducted and Non-ducted 2 x MSZ-GE09NA-8 Non-ducted Ducted and Non-ducted Ducted and Non-ducted 2 x MSZ-GE06NA-8 1 x MSZ-GE06NA-8 1 x MSZ-GE12NA-8 X MSZ-GE12NA-8 Non-ducted Ducted and Non-ducted Ducted and Non-ducted Ducted Non-ducted Ducted Non-ducted Ducted and Non-ducted Ducted and Non-ducted Ducted Non-ducted Non-ducted Ducted and Non-ducted Ducted Non-ducted Non-ducted Ducted and Non-ducted	15.5	8.5
MXZ-2B20NA-1 ENERGY STAR®	2B20NA-1 ENERGY STAR® 2 x MSZ-GE09NA-8		8.9
	Non-ducted	17.5	9.3
MXZ-3B24NA-1	Ducted and Non-ducted	16.25	8.9
	Ducted	15.0	8.5
MXZ-3B24NA-1 ENERGY STAR®		17.5	9.3
MXZ-3B24NA-1 ENERGY STAR®		17.5	9.3
	Non-ducted	17.5	10.5
MXZ-3B30NA-1	Ducted and Non-ducted	16	10.0
	Ducted	14.5	9.5
	Non-ducted	18	9.3
MXZ-4B36NA-1	Ducted and Non-ducted	16.5	9.2
	Ducted	15.0	9.0
	Non-ducted	18.4	9.8
MXZ-5B42NA	Ducted and Non-ducted	16.45	9.25
	Ducted	14.5	8.7
	Non-ducted	15	8.7
MXZ-8B48NA	Ducted and Non-ducted	14.8	8.8
	Ducted	14.7	8.9

#### REFRIGERANT LINE LENGTH FLARE/FLARE

INDOOR UNIT	OUTDOOR UNIT	LENGTH IN FEET	VERTICAL SEPARATION IN FEET
MS-A09WA	MU-A09WA	65	35
MS-A12WA	MU-A12WA	65	35
MSY-GE09NA-8	MUY-GE09NA	65	40
MSY-GE12NA-8	MUY-GE12NA	65	40
MSY-GE15NA-8	MUY-GE15NA-1	65	40
MSY-GE18NA-8	MUY-GE18NA-1	100	50
MSZ-GE09NA-8	MUZ-GE09NA	65	40
MSZ-GE12NA-8	MUZ-GE12NA	65	40
MSZ-GE15NA-8	MUZ-GE15NA-1	65	40
MSZ-GE18NA-8	MUZ-GE18NA-1	100	50
MSY-GE24NA	MUY-GE24NA	100	50
MSZ-GE24NA	MUZ-GE24NA	100	50
MSY-D30NA-8	MUY-D30NA-1	100	50
MSZ-D30NA-8	MUZ-D30NA-1	100	50
MSY-D36NA-8	MUY-D36NA-1	100	50
MSZ-D36NA-8	MUZ-D36NA-1	100	50
MSZ-FE09NA-8	MUZ-FE09NA-1	65	40
MSZ-FE12NA-8	MUZ-FE12NA1	65	40
MSZ-FE18NA	MUZ-FE18NA	100	50
SEZ-KD09NA4	SUZ-KA09NA	65	40
SEZ-KD12NA4	SUZ-KA12NA	65	40
SEZ-KD15NA4	SUZ-KA15NA	65	40
SEZ-KD18NA4	SUZ-KA18NA	100	50
SLZ-KA09NA	SUZ-KA09NA	65	40
SLZ-KA12NA	SUZ-KA12NA	65	40
SLZ-KA15NA	SUZ-KA15NA	65	40
MSZ-GE/FE; MFZ; SEZ; SLZ	MXZ-2B20NA-1	164	49*/33
MSZ-GE/FE; MFZ; SEZ; SLZ	MXZ-3B24NA-1	230	49*/33
MSZ-GE/FE ; MFZ; SEZ ; SLZ	MXZ-3B30NA-1	230	49*/33
MSZ-GE/FE ; MFZ; SEZ ; SLZ	MXZ-4B36NA-1	230	49*/33
MSZ-GE/FE ; MFZ; SEZ ; SLZ	MXZ-5B42NA	262	49*/33
MSZ-GE/FE ; MFZ; SEZ ; SLZ	MXZ-8B48NA	377	66*/98

 $^{\ast}49^{\circ}$  and 66' applies to installations where the outdoor unit is installed below the indoor unit.

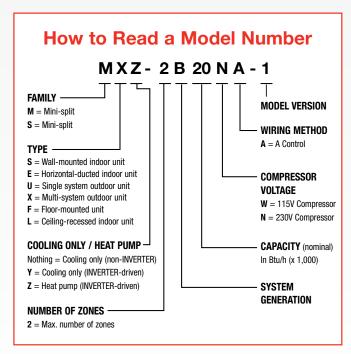
M-Series systems are not recommended for critical room and low ambient cooling applications. Use commercial grade P-Series with full cooling capacity down to 0° F with wind baffle.

#### PORT ADAPTER GUIDE

AVAILABLE INDOOR UNITS	LINE SET SIZE
MSZ Wall-mounted	1
MSZ-GE06NA-8	3/8" gas x 1/4" liquid
MSZ-GE09NA-8	3/8" gas x 1/4" liquid
MSZ-FE09NA-8	3/8" gas x 1/4" liquid
MSZ-GE12NA-8	3/8" gas x 1/4" liquid
MSZ-FE12NA-8	3/8" gas x 1/4" liquid
MSZ-GE15NA-8	1/2" gas x 1/4" liquid
MSZ-FE18NA	5/8" gas x 3/8" liquid
MSZ-GE18NA-8	1/2" gas x 1/4" liquid
MSZ-GE24NA	5/8" gas x 3/8" liquid
MFZ Floor-standing	
MFZ-KA09NA	3/8" gas x 1/4" liquid
MFZ-KA12NA	3/8" gas x 1/4" liquid
MFZ-KA18NA	1/2" gas x 1/4" liquid
PLA Ceiling-recessed	
PLA-A12BA4	1/2" gas x 1/4" liquid
PLA-A18BA4	1/2" gas x 1/4" liquid
PLA-A24BA4	5/8" gas x 3/8" liquid
PCA Ceiling-suspended	
PCA-A24KA4	5/8" gas x 3/8" liquid
SLZ Ceiling-recessed	
SLZ-KA09NA	3/8" gas x 1/4" liquid
SLZ-KA12NA	3/8" gas x 1/4" liquid
SLZ-KA15NA	1/2" gas x 1/4" liquid
SEZ/PEAD Horizontal-ducted	
SEZ-KD09NA4	3/8" gas x 1/4" liquid
SEZ-KD12NA4	3/8" gas x 1/4" liquid
SEZ-KD15NA4	1/2" gas x 1/4" liquid
SEZ-KD18NA4	1/2" gas x 1/4" liquid
PEAD-A24AA4	5/8" gas x 3/8" liquid

#### PORT ADAPTERS PART NUMBERS

MAC-A454JP-E	3/8" x 1/2"
MAC-A455JP-E	1/2" x 3/8"
MAC-A456JP-E	1/2" x 5/8"
PAC-SG76RJ-E	3/8" x 5/8"
PAC-493PI	1/4" x 3/8"



#### MXZ-2B20NA-1

Port A = 3/8" gas x 1/4" liquid	
Port B = 3/8" gas x 1/4" liquid	

#### MXZ-3B24NA-1

Ρ	ort	A	=	1/2"	gas	Х	1/4"	liquid	
P	ort	В	=	3/8"	gas	Х	1/4"	liquid	
Ρ	ort	С	=	3/8"	gas	Х	1/4"	liquid	

#### MXZ-3B30NA-1

Port A =  $1/2^{"}$  gas x  $1/4^{"}$  liquid Port B =  $3/8^{"}$  gas x  $1/4^{"}$  liquid Port C =  $3/8^{"}$  gas x  $1/4^{"}$  liquid

#### MXZ-4B36NA-1

Port A = $1/2''$ gas x $1/4''$ liquid	
Port B = 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	

#### MXZ-5B42NA

Port A = $1/2$ " gas x $1/4$ " liquid	
Port B = $3/8"$ 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 = 3/8" gas x 1/4" liquid	

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 to branch box or outdoor unit port sizes.
- \* Connect 15K + indoor units to the larger 1/2" port on the PAC-AKA51BC branch box or outdoor unit.
- \* Adapt lineset size with appropriate port adapter from above list.
- \* When using the PLA-A24BA4, PEAD-A24AA4, PCA-A24KA4, MSZ-FE18NA or MSZ-GE24NA two port adapters 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").

#### **COOLING CAPACITY CORRECTION FACTORS**

MODEL	REFRIGER/	ANT PIPING LENGTH	(ONE WAY)
WODEL	25 FT (STD)	40 FT	65 FT
MU-A09WA MU-A12WA			
MUZ-GE09NA MUY-GE09NA MUZ-GE12NA MUY-GE12NA MUZ-GE15NA-1 MUY-GE15NA-1	Capacity x 1.0	Capacity x 0.954	Capacity x 0.878
MUZ-FE09NA-1 MUZ-FE12NA1			
SUZ-KA09NA SUZ-KA12NA SUZ-KA15NA			

MODEL	REFRIGERANT PIPING LENGTH (ONE WAY)									
WODEL	25 FT (STD)	40 FT	65 FT	100 FT						
MUZ-GE18NA-1 MUY-GE18NA-1										
MUZ-D30NA-1 MUZ-D36NA-1	Capacity x 1.0	Capacity x 0.954	Capacity x 0.878	Capacity x 0.713						
MUY-D30NA-1 MUY-D36NA-1										
SUZ-KA18NA										
MUZ-GE24NA MUY-GE24NA MUZ-FE18NA	Capacity x 1.0	Capacity x 0.954	Capacity x 0.878	Capacity x 0.771						

#### **M-SERIES SIZING**

It is very important that all contractors follow proper procedure and size units based on a Manual J calculation. A load calculation takes into account all the factors that cause the building to lose heat in the winter and gain heat in the summer. Some of the factors taken into consideration are exposed walls, insulation, windows, doors, and even the direction the building faces.

INVERTER-driven technology has changed the way heat pumps are used. Because the inverter can vary the capacity of the system, we can now size units based on the largest load, which in many cases may be the heat load. When single speed compressors are sized on heat load and changed over to cooling, the units can be grossly over-sized. The result is very little dehumidification and comfort problems.

Using charts like the ones below from the technical service manual, you can check the equipment capacity at the design temperatures for heating and cooling. If these values fall within both the heating and cooling capacity ranges of the system, you can select that system with confidence.

#### MSZ/MUZ-FE09NA

HEATING CAPACITY								
Outdoor Temperature Degrees (° F)	-13.0	-4.0	5.0	14.0	23.0	32.0	41.0	50.0
Heating Capacity (Btu/h)	6,740	8,978	1,1216	13,453	15,090	16,469	17,848	21,338
Ratio	0.62	0.82	1.03	1.23	1.38	1.51	1.64	1.96
Percent Heating Capacity	62%	82%	100%	100%	100%	100%	100%	100%

#### **COOLING CAPACITY**

Notes:

Indoor Air	Outdoor intake air DB temperature (°F)											
IWB (° F)	85		95			105			115			
IWD (F)	TC	SHC	TPC	TC	SHC	TPC	TC	SHC	TPC	TC	SHC	TPC
71	10.3	6.5	0.63	9.7	6.1	0.68	9.0	5.6	0.72	8.3	5.2	0.75
67	9.7	7.4	0.60	9.0	6.8	0.65	8.4	6.4	0.69	7.7	5.8	0.72
63	9.1	8.1	0.58	8.5	7.6	0.62	7.7	6.9	0.66	7.0	6.3	0.69

IWB: Intake air wet-bulb temperature TC: Total capacity SHC: Sensible heat capacity

TPC: Total power consumption (kW)

#### M-SERIES AIR OUTLET COVERAGE RANGE\*

MODEL	MODE	FUNCTION	AIRFLOW (CFM)	COVERAGE (FT)	
MC ADDWA	FAN	DRY	335	25.4	
MS-A09WA	COOL	WET	300	22.8	
MS-A12WA	FAN	DRY	406	30.6	
	COOL	WET	363	27.5	
	HEAT	DRY	406	29.5	
MSZ-GE06NA-8 MSZ-GE09NA-8 MSZ-GE09NA-8 MSY-GE12NA-8 MSZ-GE12NA-8	COOL	WET	286	21.0	
MSY-GE15NA-8	HEAT	DRY	463	33.5	
MSZ-GE15NA-8	COOL	WET	385	28.0	
MSY-GE18NA-8	HEAT	DRY	512	36.9	
MSZ-GE18NA-8	COOL	WET	385	28.0	
MSY-GE24NA	HEAT	DRY	738	36.9	
MSZ-GE24NA	COOL	WET	661	33.2	
MSZ-FE09NA-8	HEAT	DRY	381	27.7	
	COOL	WET	307	22.4	
MSZ-FE12NA-8	HEAT	DRY	420	30.4	
	COOL	WET	350	25.4	
MSZ-FE18NA	HEAT	DRY	738	36.9	
	COOL	WET	661	33.2	
MSY-D30NA-8 MSZ-D30NA-8	HEAT	DRY	848	45.0	
MSY-D36NA-8 MSZ-D36NA-8	COOL	WET	763	40.7	
MFZ-KA09NA	HEAT	DRY	332	15.4	
	COOL	WET	303	14.2	
MFZ-KA12NA	HEAT	DRY	335	15.6	
	COOL	WET	309	14.5	
MFZ-KA18NA	HEAT	DRY	434	20.0	
ΙΨΙΓΖ-ΝΑΙ ΌΝΑ	COOL	WET	379	17.5	
SLZ-KA09NA	HEAT	DRY	350	12.1	
	COOL	WET	320	11.1	
SLZ-KA12NA	HEAT	DRY	390	13.5	
	COOL	WET	350	12.1	
SLZ-KA15NA	HEAT	DRY	390	13.5	
	COOL	WET	350	12.1	

\*Air coverage represents the distance with one ft/sec air speed when blowing out horizontally from the unit operating at the High fan speed. This is only a general guideline; actual coverage depends on size and layout of the room.



Mitsubishi Electric Cooling & Heating 1340 Satellite Boulevard, Suwanee, GA 30024 Phone: 800-433-4822 Fax: 800-658-1458





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See complete warranty for terms, conditions and limitations.

A copy is available from Mitsubishi Electric.

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