

M-SERIES

RESIDENTIAL AND SELECT COMMERCIAL
AIR CONDITIONERS AND HEAT PUMPS

MS | MSY | MSZ | MXZ



Mr. SLIM®
Split-ductless A/C and Heat Pumps



www.mrslim.com

Mr. Slim® Split-ductless Systems: Redefining Comfort



Comfort is a concept many of us notice only when we're either uncomfortable or very relaxed. But at Mitsubishi Electric HVAC Advanced Products Division, all we think about is comfort. Our industry-leading Mr. Slim split-ductless cooling and heating systems reflect this thinking. At home or at work our Mr. Slim systems are designed to make any space inviting and comfortable.

Maybe your home has a room that's always too hot or too cold. Or, perhaps, you're looking for a way to control the climate effectively in multiple rooms in your office building such as in conference rooms. No matter what your cooling and heating needs may be, Mr. Slim systems are the perfect way to transform your home or workplace into a tranquil and productive environment.

Mr. SLIM®
Split-ductless A/C and Heat Pumps

 **MITSUBISHI
ELECTRIC**
HVAC Advanced Products Division



Good for the environment and your bottom line.

- **Eco-friendly refrigerant:** Environmentally-friendly R410A refrigerant offers zero Ozone Depletion Potential (ODP) and allows for higher heat transfer coefficient (COP). This innovative feature means a reduction in equipment size, a reduction in piping size and higher pressure for greater performance. Smaller equipment also means less impact on the environment at the end of the product's life cycle.
- **Standard compliance:** All Mitsubishi Electric HVAC products follow standards and guidelines as set forth by the Energy Star, EPA, ARI, UL, ASHRAE, ETL and ISO.
- **Recycling design:** Our air conditioners are specially designed to allow for easy cleaning, efficient disassembly and more practical recycling. The number of parts used in indoor units has been reduced by adopting modular components, a process which also simplifies materials separation for recycling. To date as much as 84 percent of the materials used to build a Mr. Slim system is recyclable.
- **Smart energy usage:** Mitsubishi Electric INVERTER zoning systems smartly deliver only the amount of capacity needed unlike a typical full-power ON system. Individual indoor air handlers are installed within the zone. These air handlers measure the load for that specific zone and deliver for added efficiency only the capacity needed directly to the space, as compared to energy lost in long duct runs. If the zone is not being used, you do not have to condition the space. Smarter sensing technology and microprocessors enhance the system's ability to measure room temperature accurately for added comfort, performance and efficiency.
- **Minimal impact on landfills:** All air-conditioning products use long-life washable filters.

What is Mr. Slim Split-ductless Technology?

For decades split-ductless air-conditioning and heat pump systems have been the primary solution for cooling and heating interior spaces around the world. Our quiet and powerful Mr. Slim systems have three main components: an indoor unit, an outdoor unit and a remote controller. Installation is as simple as mounting the indoor and outdoor units, connecting the refrigerant lines and making a few electrical connections. An easy installation for your authorized contractor means you will be quickly enjoying the comfort Mr. Slim systems provide.

Why Mr. Slim Systems?

Mitsubishi Electric is without exception the industry leader in split-ductless air-conditioning technology. Our innovations have defined cutting-edge technology for over 28 years. Compare, and you'll see that no one surpasses the Mr. Slim brand's performance for quiet, easy-to-use and energy-efficient operation. And because our split-ductless technology carries the Mitsubishi Electric name, you know every product is built to last. The bottom line is Mr. Slim systems deliver the ultimate in comfort control for your home or office. It's true today and will be comfortably evident for years to come.



Where Can Mr. Slim Products Be Used?

Mr. Slim split-ductless systems are specifically designed to improve the comfort level in an uncomfortably hot or cold room of an existing building. Because Mr. Slim Systems don't require ductwork, they're the perfect cooling and heating systems for renovating older buildings – even those with plaster walls and brick facades that were constructed before air conditioning was available. The versatility and variety of applications for Mr. Slim systems are virtually unlimited. They're an excellent choice for almost any spot-cooling or heating situation, including enclosed sunrooms, upstairs bedrooms, new additions, bonus rooms and finished basements.

Mr. Slim systems are equipped with an anti-allergen filter that helps prevent the circulation of air with contaminants. And because the indoor units can be controlled by zone, it's easy to set the controls for the exact room temperature you want within any given space.



How does it work?

Mr. Slim cooling and heating solutions are perfect for almost any space because their innovative engineering optimizes the capabilities of the INVERTER technology and R410A refrigerant for more efficient systems with smaller indoor and outdoor units. R410A refrigerant is environmentally friendly and does not deplete the ozone. The systems themselves are also made of recyclable materials. To find out more about Mr. Slim split-ductless products or to locate an authorized Diamond Dealer near you, visit www.mrslim.com.



INVERTER

INVERTER

INVERTER-DRIVEN COMPRESSOR TECHNOLOGY

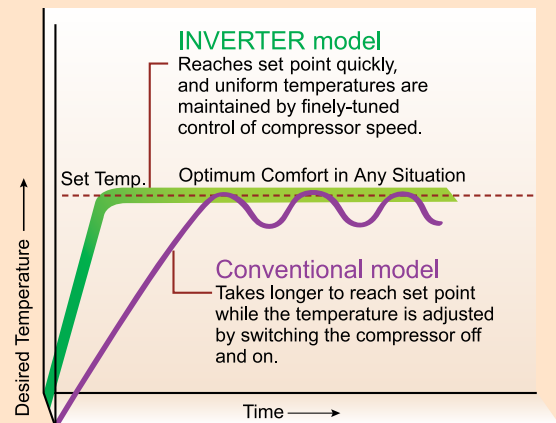
INVERTER Technology for Superior Year-round Comfort and Performance

Certain straight-cool and all heat pump outdoor units use Mitsubishi Electric's INVERTER-driven compressor technology (Variable Frequency Drive) to provide exceptional, high-speed cooling and heating performance. Thanks to high rotation speeds, desired temperatures are reached more quickly than with conventional systems so you can enjoy your ideal level of comfort without delay.

Like a car's cruise control, the system varies the compressor speed, which reduces power consumption for extra energy savings. The system adjusts itself precisely to the level needed to maintain a consistently comfortable indoor environment. Precise rotation speed control allows the system to maintain a comfortable, consistent room temperature.

High-speed Performance When You Need It

High rotation compressor speeds cool and heat a room quickly, saving both energy and cash. The compressor speed is controlled to maximize efficiency, changing speeds according to the cooling and heating load of a room.



Extra Energy Savings

For optimum performance INVERTER technology delivers only the energy needed to satisfy the cooling and heating load in a room reducing energy consumption. Our CITY MULTI® VRFZ residential and commercial product line also employs INVERTER technology. Like Mr. Slim products the CITY MULTI INVERTER-driven systems give you increased performance capabilities and design flexibility, making Mitsubishi Electric products the best choice for any of your cooling and heating applications. Visit www.mehvac.com for more information about CITY MULTI technology.



M-SERIES

RESIDENTIAL AND SELECT COMMERCIAL

Comfort is a home that's cool and dry in the summer and cozy and warm in the winter. This environment is what you get with the Mr. Slim system: perfect year-round comfort. The M-Series systems install easily. Mounted high on the wall, the indoor unit blends into most room environments without taking up any window space. These systems also feature automatic cooling/heating changeover, which automatically switches the system between cooling and heating to compensate for fluctuating temperatures. They're nearly silent because their fans deliver air quietly and continuously with only a gentle whoosh for constant circulation and filtration. (This capability is the reason Mr. Slim systems were the first choice for thousands of churches, schools and libraries across the U.S.) Our M-Series systems are the perfect way to cool or heat any room in your home. M-Series INVERTER systems provide high-speed and efficient cooling and heating performance to keep your home consistently cozy year-round.



Superior INVERTER Technology

Now you can benefit from technology that outperforms conventional systems with Mitsubishi Electric's INVERTER technology. Precise rotation speed control helps you keep temperatures consistent. At high rotation speeds you get faster cooling and heating. At low rotation speeds the temperature is efficiently maintained, and starting currents are kept at low levels so they don't affect other appliances. Pulse Amplitude Modulation (PAM) keeps efficiency high by ensuring that the system effectively **uses 98 percent of input power supply.**

No Ductwork Required

Mr. Slim systems require no ductwork, just a small, three-inch opening for two refrigerant lines and control and power wiring to connect the indoor and outdoor units. This feature allows for quicker installation, less mess, and a better-looking and more comfortable space. If you are adding on a room, you don't have to tie into an existing system to steal cool or warm air from other areas in the home. This advanced technology means better room control and increased comfort plus greater efficiency.

Total, Healthy Comfort

The POWERFUL mode is available to cool or heat any desired space quickly by lowering the set temperature in cooling mode or raising the set temperature in heating mode by seven degrees. It increases the fan speed for 15 minutes. Auto changeover maintains consistent temperature in a room by automatically sensing whether the space needs cooling or heating. For challenging cooling environments, low-ambient temperature control means our systems perform effectively in cooling mode even when the external temperatures dip to as low as 14 degrees Fahrenheit. Even more important you can benefit from our anti-allergen filter. Using blue enzymes, this filter helps minimize germs, bacteria, and viruses.

Control Technology

With the new A-Control system the indoor unit is powered through the outdoor unit. Three polarity sensitive wires plus a ground conductor run from the outdoor to the indoor unit providing both power and communication. Advanced wireless remote control is standard on all M-Series models. On the INVERTER-driven units, an option for a wired wall controller is available.

System Control in the Palm of Your Hand

Mr. Slim's M-Series offers a comprehensive remote controller that controls temperature, fan speed and more. Choose from four modes: COOL, HEAT, AUTO and DRY. The controller also has a 12-hour ON/OFF timer for one-button control of your personal comfort. Our new MSY(Z)-A24/D30/D36NA models add the WIDE VANE button to evenly distribute airflow to a wider angle (150 deg.) from right to left, maintaining a comfortable temperature across a wide area. The M-Series INVERTER models can tie into the P-Series wired controller and CITY MULTI® M-NET with adapter to give an *on-the-wall* controller option.

Warm Air, No Drafts

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



M-Series MSY(Z)-D30NA Model Indoor Unit

Features	Benefits
INVERTER TECHNOLOGY	Maximizes energy savings by making sure only the energy needed to cool or heat an area is used.
NO DUCTWORK	Installs quickly and easily, having no need for major construction and remodeling
ZONE CONTROL	Realizes maximum control and energy efficiency by cooling and heating only those spaces desired
ADVANCED MICROPROCESSOR CONTROLS	Creates a comfortable environment no matter what conditions are outside with our advanced self-monitoring controls
CONVENIENT WIRELESS REMOTE CONTROL	Offers comfort control in the palm of your hand with our remote controller
WASHABLE LONG-LIFE ANTI-ALLERGEN FILTERS	Improves air quality and saves money by being washable rather than replaceable
AUTO COOL/HEAT CHANGEOVER	Switches automatically from cooling to heating
ENVIRONMENTALLY FRIENDLY	Uses R410A, an environmentally-friendly refrigerant.



Wireless
M-Series
Remote
Controller



M-Series MUY(Z)-D30NA Model Outdoor Unit

More Efficiency, More Capacity

The M-Series product line now includes the MSZ-FD09/12NA model series with the highest ductless system rating in the industry at **23 SEER** while being extremely quiet at a low 22dB(A) for the indoor unit. The MSY(Z)-D30/36NA systems bring the largest capacity to date for the M-Series at 2.5 and 3 tons respectively.

For detailed information see the next page.

Cutting-edge Technology

In every aspect of the Mr. Slim system, technology is utilized to make the units more energy-efficient and environmentally friendly while providing innovative comfort control. Our technology includes expanded filter systems, wide vane airflow, the i-see™ sensor and increased energy-efficiency (in select systems).

Refer to the next page for more detailed information.



M-Series Wireless Remote Controller

M-SERIES WALL-MOUNTED A/C LINEUP (cooling only)



MS Non-INVERTER
Air Conditioners
9,500 to 12,000 Btu/h
[pg. 10]



MSY INVERTER
Air Conditioners
15,000 to 34,600 Btu/h
[pgs. 10 - 11]

NEW Large Capacity



MSY(Z)-D30/36NA
INVERTER Air Conditioners
and Heat Pumps
30,700 to 34,600 Btu/h
[pgs. 11 and 13]

Multiple Filters for Cleaner, Healthier Air

Mr. Slim M-Series indoor units use a sophisticated multipart filter system to remove contaminants such as allergens, viruses and bacteria from the air as it circulates.

The hybrid catechin filter absorbs odor-causing gases. A blue-enzyme anti-allergen filter reduces germs, bacteria and viruses and helps trap dust, pollens, mites and other particles; the filter uses an enzyme catalyst to help break down the sulfur atom bonds in allergen proteins, transforming them into non-allergen proteins.

A hybrid-coating process makes the catechin filter washable and – if properly maintained with monthly cleanings – effective for more than 10 years.

The MSZ-FD09/12NA indoor units incorporate the M-Series standard Catechin filter plus two more filters for triple filtration. The second filter, a Blue-Enzyme filter, is a fibrous material, and its enzymes render allergens harmless. The third filter, a Platinum Catalyst Deodorizing filter, that has a ceramic surface absorption element and uses nanotechnology for high power odor absorption. This combination of filter types provides a complete air purifying system along with the ultimate comfort solution.

Energy Efficiency

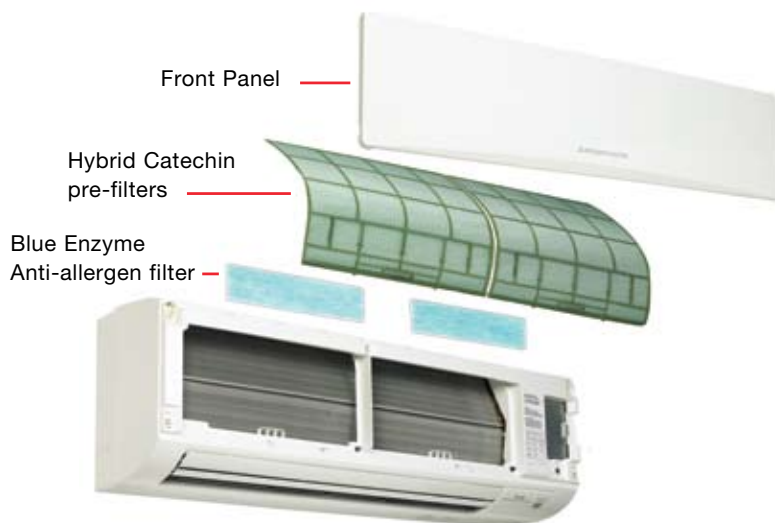
MSZ-FD09/12NA systems produce the highest ductless system ratings in the industry at **23 SEER** while being extremely quiet at a low 22dB(A) for the indoor unit.

The increased energy efficiency, **up to 35 percent over standard Mr. Slim M-Series systems and 70 percent over industry standard requirement of 13 SEER**, is a result of a new powerful magnet rotor that allows for lower current input. With the increased energy efficiency and SEER ratings the MSZ-FD models are **ENERGY STAR® Tier 2 certified**.

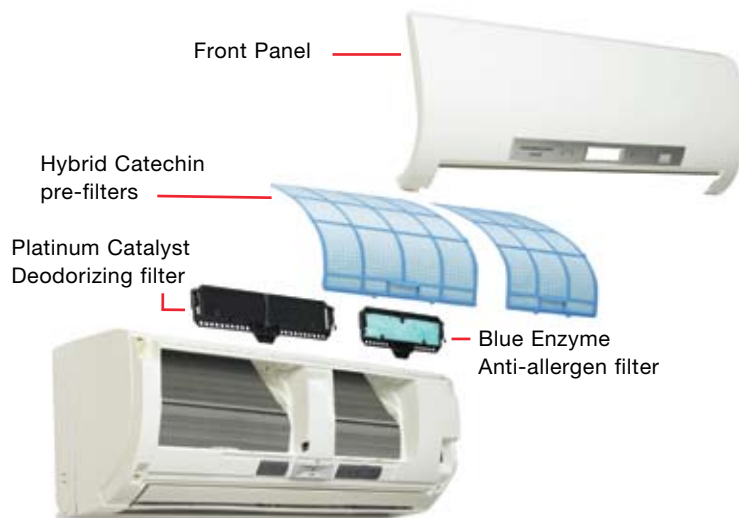
High Heat from Low Energy

Even at 17° F the MSZ-FD09NA models produce 12,500 Btu/h of heat while the MSZ-FD12NA reaches to 13,600 Btu/h. All of this while being extremely energy-efficient.

STANDARD FILTER SYSTEM (MS(Y)-D30NA MODEL SHOWN)



ENHANCED FILTER SYSTEM (MSZ-FD09/12NA MODELS)



NEW Up to 23 SEER



MSZ-FD09/12NA
High-Efficiency
INVERTER Heat Pumps
9,000 and 12,000 Btu/h
[pg. 12]

M-SERIES WALL-MOUNTED HEAT PUMP LINEUP (cooling and heating)



MSZ INVERTER
Heat Pumps
9,000 to 33,200 Btu/h
[pgs. 12 - 13]



MXZ Multi-Zone
INVERTER
Heat Pumps
20,000 to 36,000 Btu/h
[pgs. 14 - 15]



Excellent Air Distribution

With the WIDE VANE or SWING mode, available on the MSY(Z)-A24/D30/36NA, there is an option for seven horizontal airflow directions that provide 150 degrees of airflow for greater conditioned air circulation.



Quiet Operation

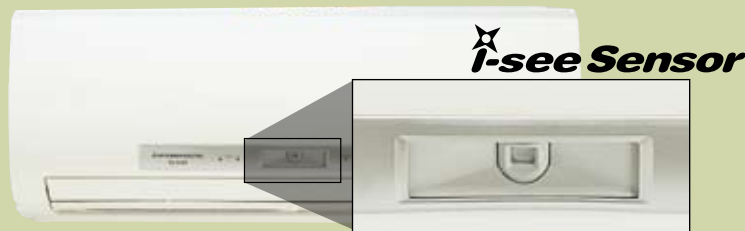
Do you hear that? No? You barely hear our systems because Mr. Slim indoor units operate with nearly a whisper of sound. A police siren, for example, has a sound level of 118 decibels; a circular saw produces 107 decibels of sound. A vacuum cleaner in your home creates 74 decibels of noise. Even a library environment is at 33 decibels while a whisper-tone voice produces 35 decibels. Certain Mr. Slim units operate as low as 22 decibels in low speed and others range from 26 to 34 decibels in low speed, all lower than a whisper-tone voice.

Did you hear that? We hope you did.

source: Friends of Albuquerque's Environmental Story (<http://www.cabq.gov/aes/s5noise.html>)

i-see™ Sensor (MSZ-FD09/12NA models only)

The i-see sensor detects the always troublesome regions of temperature closer to the ceiling and the floor. The i-see sensor also controls the airflow up to a wide 150° lateral angle for ultimate comfort (90° angle in cooling mode) by scanning the room and making adjustments based on the ambient temperature readings. Through this process the MSZ-FD09/12NA systems achieve superior cooling/heating performance with extremely efficient operation.



Multi-zone Heat Pump System Attributes

Multi-zone systems mean that people can enjoy their ideal level of comfort no matter where they are in the home. Each zone operates independently. People in the kitchen, master bedroom or living room can all enjoy the temperatures that makes them feel most comfortable.

If you're looking for a complete comfort solution for several different rooms, the MXZ multi-zone system is the right choice for you. You can use up to 19 different indoor unit combinations so the system is flexible enough to conform to your particular cooling and heating needs with up to four rooms from one outdoor unit.



Lifestyle photo courtesy of
Mitsubishi Digital Electronics America, Inc.
Visit mitsubishiiv.com for details.



(MS-A12WA MODEL SHOWN)

MS/MSY COOLING-ONLY

M-SERIES Specifications



INVERTER



NON-INVERTER

Model Name	Indoor Unit		MS-A09WA	MS-A12WA
	Outdoor Unit		MU-A09WA	MU-A12WA
Cooling *1	Rated Capacity	Btu/h	9,500	12,000
	Capacity Range	Btu/h	-	-
	Total Input	W	870	1,070
	Energy Efficiency	SEER	13	
	Moisture Removal	Pints/h	2.7	3.2
Sensible Heat Factor			0.68	0.70
Power Supply	Phase, Cycle, Voltage		1 Phase, 60Hz, 115V *2	
Voltage	Indoor - Outdoor L1 N / S1-S2		AC 115V	
	Indoor - Outdoor L2 / S2-S3		AC 115V	
	Indoor - Remote Controller		Wireless Type	
Indoor Unit	MCA	A	1.2	
	Fan Motor	F.L.A.	0.95	
	Airflow (Lo-Med-Hi)	DRY (CFM)	183-261-335	222-286-406
		WET (CFM)	162-233-300	198-254-363
	Sound Pressure Level (Lo-Med-Hi)	dB(A)	26-32-40	33-38-45
	External Finish Color		Munsell No. 1.0Y 9.2/0.2	
	Dimension Unit	W: In.	30-11/16	
		D: In.	8-1/4	
		H: In.	11-3/4	
	Weight Unit	Lbs.	23	
	Field Drainpipe Size O.D.	In.	5/8	
Outdoor Unit	MCA	A	14	16
	Max. Fuse Size	(Time Delay) A	15	20
	Fan Motor	F.L.A.	0.63	0.93
	Compressor	Model (Type)	Single Rotary	
		R.L.A.	9.3	10.82
		L.R.A.	47	56
	Airflow	CFM	1,083	1,327
	Refrigerant Control		Capillary Tube	
	Sound Pressure Level (Cooling) *1	dB(A)	47	52
	External Finish Color		Munsell No. 3Y 7.8/1.1	
	Dimensions	W: In.	31-1/2	33-7/16
		D: In.	11-1/4	11-7/16
		H: In.	21-5/8	23-13/16
	Weight	Lbs.	78	96
Remote Controller	Type		Wireless Remote	
Refrigerant	Type		R410A	
	Charge	Lbs., Oz.	2, 5	3, 1
	Oil	Type (Fl. Oz.)	NE022 (10.8)	
Refrigerant Pipe	Gas Side O.D.	In.	3/8	1/2
	Liquid Side O.D.		1/4	
	Height Difference (Max.)	Ft.	35	
	Length (Max.)		65	
Connection Method	Indoor/Outdoor		Flared/Flared	

MSY-A15NA	MSY-A17NA
MUY-A15NA	MUY-A17NA
15,000	16,200
3,100-15,000	3,100-16,200
1,690 (210-1,690)	2,070 (210-2,070)
16	
4.7	5.1
0.65	
1 Phase, 60Hz, 208/230V *2	
AC 208-230V	
DC12-24V	
Wireless Type (Optional Wired Controller: DC12V)	
1.0	
0.76	
268-328-381	
240-293-342	
34-40-45	34-40-46
Munsell No. 1.0Y 9.2/0.2	
30-11/16	
8-1/4	
11-3/4	
23	
5/8	
14	
15	
0.52	
DC INVERTER-driven Twin Rotary	
10.1	
12	
1,249	
Linear Expansion Valve	
50	52
Munsell No. 3Y 7.8/1.1	
31-1/2	
11-1/4	
21-5/8	
88	
Wireless Remote (Optional Wired Controller)	
R410A	
2, 7	
NE022 (15.2)	
1/2	
1/4	
40	
65	
Flared/Flared	

NOTES: Test conditions are based on ARI 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 | Six-year warranty on compressor. One-year warranty on parts.



(MS-A12WA MODEL SHOWN)

INVERTER



MSY COOLING-ONLY (CONT.)

M-SERIES Specifications

Model Name	Indoor Unit		MSY-A24NA	MSY-D30NA	MSY-D36NA
	Outdoor Unit		MUY-A24NA	MUY-D30NA	MUY-D36NA
Cooling *1	Rated Capacity	Btu/h	22,000	30,700	34,600
	Capacity Range	Btu/h	4,400-22,000	9,800-30,700	9,800-34,600
	Total Input	W	2,880 (290-2,880)	3,380 (620-3,380)	4,240 (620-4,240)
	Energy Efficiency	SEER	16		15.1
	Moisture Removal	Pints/h	7.3	9.9	11.9
	Sensible Heat Factor		0.63	0.64	0.62
Power Supply	Phase, Cycle, Voltage		1 Phase, 60Hz, 208/230V *2		
Voltage	Indoor - Outdoor S1-S2		AC 208-230V		
	Indoor - Outdoor S2-S3		DC12-24		
	Indoor - Remote Controller		Wireless Type (Optional Wired Controller: DC12V)		
Indoor Unit	MCA	A	1.0		
	Fan Motor	F.L.A.	0.76		
	Airflow (Lo-Med-Hi) *1	DRY (CFM)	296-431-568	389-639-848	
		WET (CFM)	265-385-508	350-576-763	
	Sound Pressure Level (Lo-Med-Hi) *1	dB(A)	34-40-49	32-42-49	
	External Finish Color		Munsell No. 1.0Y 9.2/0.2		
	Dimension Unit	W: In.	43-5/16	46-1/16	
		D: In.	10-1/4	11-5/8	
		H: In.	12-13/16	14-3/8	
	Weight Unit	Lbs.	37	40	
Field Drainpipe Size O.D.	In.	5/8			
Outdoor Unit	MCA	A	17	21	
	MOCP	A	20	25	
	Fan Motor	F.L.A.	0.93		
	Compressor	Model (Type)	DC INVERTER-driven Twin Rotary		
		R.L.A.	10.1	16	
		L.R.A.	16	20	
	Airflow	CFM	1,729	1,941	
	Refrigerant Control		Linear Expansion Valve		
	Sound Pressure Level (Cooling) *1	dB(A) *1	55		
	External Finish Color		Munsell No. 3Y 7.8/1.1		
	Dimensions	W: In.	33-1/16	33-1/16	
		D: In.	13	13	
		H: In.	33-7/16	33-7/16	
	Weight	Lbs.	128	126	
	Remote Controller	Type		Wireless Remote	
Refrigerant	Type		R410A		
	Charge	Lbs., Oz.	4		
	Oil	Type (Fl. Oz.)	NEO22 (15.2)	NEO22 (29)	
Refrigerant Pipe	Gas Side O.D.	In.	5/8		
	Liquid Side O.D.		1/4	3/8	
	Height Difference (Max.)	Ft.	50		
	Length (Max.)		100		
Connection Method	Indoor/Outdoor		Flared/Flared		

NOTES: Test conditions are based on ARI 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 | Six-year warranty on compressor. One-year warranty on parts.



(MSZ-FD12NA MODEL SHOWN)

INVERTER



MSZ HEAT PUMP

M-SERIES Specifications



Model Name	Indoor Unit		MSZ-A09NA	MSZ-FD09NA	MSZ-A12NA	MSZ-FD12NA
	Outdoor Unit		MUZ-A09NA	MUZ-FD09NA	MUZ-A12NA	MUZ-FD12NA
Cooling *1	Rated Capacity	Btu/h	9,000	9,000	12,000	12,000
	Capacity Range	Btu/h	5,500-9,000	2,800-9,000	5,700-12,000	2,800-12,000
	Total Input	W	690 (390-690)	650 (160-650)	1,170 (395-1,170)	960 (160-960)
	Energy Efficiency	SEER	17	23	17	22
	Moisture Removal	Pints/h	2.3	2.1	3.2	2.9
	Sensible Heat Factor		0.71	0.76	0.70	0.73
Heating at 47° F *2	Rated Capacity	Btu/h	10,900	10,900	13,600	13,600
	Capacity Range	Btu/h	5,200-12,600	3,000-18,000	5,200-13,600	3,000-21,000
	Total Input	W	860 (350-1,100)	750 (150-2,400)	1,160 (350-1,160)	980 (150-2,400)
	HSPF (Region IV)	Btu/h/W	8.2	10.55	8.2	10.55
Heating at 17° F *3	Capacity	Btu/h	7,700	12,500	8,300	13,600
	Total Input	W	880	1,730	930	1,780
Power Supply	Phase, Cycle, Voltage		1 Phase, 60Hz, 208/230V *4			
Voltage	Indoor - Outdoor S1-S2		AC 208-230V			
	Indoor - Outdoor S2-S3		DC12-24V			
	Indoor - Remote Controller		Wireless Type (Optional Wired Controller: DC12V)			
Indoor Unit	MCA	A	1.0			
	Fan Motor	F.L.A.	0.76			
	Airflow (Cool) (Lo-Med-Hi) *1	DRY (CFM) WET (CFM)	152-229-307 134-205-275	162-226-339 144-202-307	152-240-353 134-215-318	162-226-381 144-202-350
	Airflow (Heat) (Lo-Med-Hi) *2	DRY (CFM)	159-222-307	166-240-367	159-240-353	166-240-399
	Sound Pressure Level (Cooling) (Lo-Med-Hi) *1	dB(A)	22-33-38	22-31-39	22-34-42	22-33-43
	Sound Level Pressure (Heating) (Lo-Med-Hi) *2		22-33-38	22-31-40	22-34-42	22-33-43
	External Finish Color		Munsell No. 1.0Y 9.2/0.2			
	Dimension Unit	W: In.	30-11/16	31-7/16	30-11/16	31-7/16
		D: In.	8-1/4	10-1/8	8-1/4	10-1/8
		H: In.	11-3/4	11-5/8	11-3/4	11-5/8
	Weight Unit	Lbs.	23	27	23	27
	Field Drainpipe Size O.D.	In.	5/8			
	Outdoor Unit	MCA	A	12		
MOCP		A	15			
Fan Motor		F.L.A.	0.52	0.56	0.52	0.56
Compressor		Model (Type)	DC INVERTER-driven Twin Rotary			
		R.L.A.	7.8	8.6	7.8	8.6
		L.R.A.	9.2	10.8	9.2	10.8
Airflow		CFM	1,129	1,102/1,187	1,094	1,102/1,187
Refrigerant Control		Linear Expansion Valve				
Defrost Method		Reverse Cycle				
Sound Pressure Level		dB(A) *1	48			
External Finish Color		Munsell No. 3Y 7.8/1.1				
Dimensions		W: In.	31-1/2			
		D: In.	11-1/4			
		H: In.	21-5/8			
Weight		Lbs.	75	80	82	80
Remote Controller	Type		Wireless Remote (Optional Wired Controller)			
Refrigerant	Type		R410A			
	Charge	Lbs., Oz.	2	2, 9	2, 5	2, 9
	Oil	Type (Fl. Oz.)	NE022 (10.8)	NE022 (29)	NE022 (10.8)	NE022 (29)
Refrigerant Pipe	Gas Side O.D.	In.	3/8			
	Liquid Side O.D.		1/4			
	Height Difference (Max.)	Ft.	40			
	Length (Max.)		65			
Connection Method	Indoor/Outdoor		Flared/Flared			

NOTES: Test conditions are based on ARI 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°), 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 | Six-year warranty on compressor. One-year warranty on parts.



(MSY(Z)-D30NA MODEL SHOWN)

INVERTER



MSZ HEAT PUMP (CONT.)

M-SERIES Specifications

Model Name	Indoor Unit		MSZ-A15NA	MSZ-A17NA	MSZ-A24NA	MSZ-D30NA	MSZ-D36NA
	Outdoor Unit		MUZ-A15NA	MUZ-A17NA	MUZ-A24NA	MUZ-D30NA	MUZ-D36NA
Cooling *1	Rated Capacity	Btu/h	15,000	16,200	22,000	30,700	33,200
	Capacity Range	Btu/h	3,100-15,000	3,100-16,200	4,400-22,000	9,800-30,700	9,800-33,200
	Total Input	W	1,690 (210-1,690)	2,070 (210-2,070)	2,880 (290-2,880)	3,850 (620-3,850)	4,360 (620-4,360)
	Energy Efficiency	SEER	16		16	14.5	
	Moisture Removal	Pints/h	4.7	5.1	7.3	9.9	11.3
	Sensible Heat Factor		0.65		0.63	0.64	0.62
Heating at 47° F *2	Rated Capacity	Btu/h	18,000	20,100	23,200	32,600	35,200
	Capacity Range	Btu/h	3,400-20,900		3,600-24,400	8,700-34,000	8,700-36,000
	Total Input	W	1,790 (250-2,330)	2,150 (250-2,330)	2,350 (260-2,570)	3,360 (520-3,600)	3,840 (520-4,100)
	HSPF (Region IV)	Btu/h/W	8.2	8.2	8.2		
Heating at 17° F *3	Capacity	Btu/h	13,000		15,200	20,800	22,800
	Total Input	W	1,740		1,960	2,620	3,000
Power Supply	Phase, Cycle, Voltage		1 Phase, 60Hz, 208/230V *4				
Voltage	Indoor - Outdoor S1-S2		AC 208-230V				
	Indoor - Outdoor S2-S3		DC12-24				
	Indoor - Remote Controller		Wireless Type (Optional Wired Controller: DC12V)				
Indoor Unit	MCA	A	1.0				
	Fan Motor	F.L.A.	0.76				
	Airflow (Cool) (Lo-Med-Hi) *1	DRY (CFM) WET (CFM)	268-328-381 240-293-342		296-431-568 265-385-508	389-639-848 350-576-763	
	Airflow (Heat) (Lo-Med-Hi) *2	DRY (CFM)	254-314-381		296-486-568	445-639-848	
	Sound Pressure Level (Cooling) (Lo-Med-Hi) *1	dB(A)	34-40-45	34-40-46	34-40-49	32-42-49	
	Sound Level Pressure (Heating) (Lo-Med-Hi) *2		34-38-44		34-40-48	34-42-49	
	External Finish Color		Munsell No. 1.0Y 9.2/0.2				
	Dimension Unit	W: In.	30-11/16	30-11/16	43-5/16	46-1/16	
		D: In.	8-1/4	8-1/4	10-1/4	11-5/8	
		H: In.	11-3/4	11-3/4	12-13/16	14-3/8	
	Weight Unit	Lbs.	23	23	37	40	
	Field Drainpipe Size O.D.	In.	5/8				
	Outdoor Unit	MCA	A	14		17	21
MOCP		A	15		20	25	
Fan Motor		F.L.A.	0.52	0.52	0.93		
Compressor		Model (Type)	DC INVERTER-driven Twin Rotary				
		R.L.A.	10.1			16	
		L.R.A.	12	16	20		
Airflow		CFM	1,249		1,729	1,941	
Refrigerant Control		Linear Expansion Valve					
Defrost Method		Reverse Cycle					
Sound Pressure Level		dB(A) *1	50	52	55	56	
External Finish Color		Munsell No. 3Y 7.8/1.1					
Dimensions		W: In.	31-1/2			33-1/16	
		D: In.	11-1/4			13	
		H: In.	21-5/8			33-7/16	33-7/16
Weight		Lbs.	88		128	141	
Remote Controller	Type		Wireless Remote				
Refrigerant	Type		R410A				
	Charge	Lbs., Oz.	2, 7		4	4, 10	
	Oil	Type (Fl. Oz.)	NE022 (15.2)		NEO 22(15.2)	NE022 (29)	
Refrigerant Pipe	Gas Side O.D.	In.	1/2		5/8	5/8	
	Liquid Side O.D.		1/4		3/8		
	Height Difference (Max.)	Ft.	40		50		
	Length (Max.)		65		100		
Connection Method	Indoor/Outdoor		Flared/Flared				

NOTES: Test conditions are based on ARI 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°), 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 | Six-year warranty on compressor. One-year warranty on parts.



(MSZ-A12NA MODEL SHOWN)

MXZ-MULTI INVERTER HEAT PUMP

M-SERIES Specifications

INVERTER



Model Name	Outdoor Unit		MXZ-2A20NA *5	MXZ-3A30NA *6	MXZ-4A36NA *7	
Indoor Unit	Cooling *1	Rated Capacity	Btu/h	20,000	28,400	36,000
		Capacity Range	Btu/h	7,800-20,000	12,600-28,400	12,600-36,400
		Total Input	W	2,150 (630-2,150)	3,250 (1,000-3,250)	3,820 (1,000-3,900)
	Heating at 47° F *2	Rated Capacity	Btu/h	22,000	28,600	36,000
		Capacity Range	Btu/h	8,500-22,000	11,400-36,000	11,400-43,000
		Total Input	W	1,780 (520-1,780)	2,180 (740-2,880)	3,100 (740-4,350)
	Heating at 17° F *3	Capacity	Btu/h	14,500	18,800	24,600
		Total Input	W	1,500	2,120	3,340
Power Supply	Phase,Cycle,Voltage		1 Phase, 60Hz, 208-230V *8			
Voltage	Indoor - Outdoor S1-S2		AC 208-230V			
	Indoor - Outdoor S2-S3		DC12-24V			
Outdoor Unit *4	MCA		A	15		19
	MOCP		A	20		
	Fan Motor		F.L.A.	0.96	0.93	
	Compressor	Model (Type)		DC INVERTER-driven Twin Rotary		
		R.L.A.		10.1	11	14.4
		L.R.A.		15		
	Airflow (Cooling/Heating) *1/*2		CFM	1,485/1,640	1,365/1,605	2,068/2,068
	Refrigerant Control		Linear Expansion Valve			
	Defrost Method		Reverse Cycle			
	Sound Pressure Level (Cooling/Heating) *1/*2		dB(A)	49/51	49/49	54/57
	External Finish Color		Munsell No. 5Y 8/1		Munsell No. 3Y 7.8/1.1	
	Dimensions	W: In.	33-1/16	35-7/16		
		D: In.	13 (+1-3/16)	12-5/8 (+1-3/16)		
		H: In.	27-15/16	35-7/16		
	Weight	Lbs.	130	148	150	
Remote Controller	Type		Wireless Remote			
Refrigerant	Type		R410A			
	Charge	Lbs., Oz.	5/15	7/11	8/13	
	Oil	Type (Fl. Oz.)	NEO22 (23.7)	NEO22 (29.4)		
Refrigerant Pipe	Gas Side O.D.	In.	A, B: 3/8	A: 1/2; B, C: 3/8	A: 1/2; B, C, D: 3/8	
	Liquid Side O.D.	In.	1/4			
	Height Difference (Max.)	Ft.	49/33 *9			
	Length (Max.)		164 (A+B)	230 (A+B+C)	230 (A+B+C+D)	
	Length (Each Outdoor Unit)		82			
Connection Method	Indoor/Outdoor		Flared/Flared			

NOTES: Test conditions are based on ARI 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°), W.B. 75° F (24° C).

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

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

*4 Refer to pages 12 and 13 for Indoor Unit specifications.

*5 Data from combination of Indoor Units MSZ-A09NA and MSZ-A12NA.

*6 Data from combination of Indoor Units MSZ-A09NA, MSZ-A09NA and MSZ-A12NA.

*7 Data from combination of four MSZ-A09NA Indoor Units.

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

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

Power factor equals 97 percent.

Specifications are subject to change without notice.
LIMITED WARRANTY ! Six-year warranty on compressor.
One-year warranty on parts. (Diamond Dealers add one year to parts warranty.)

MXZ-3A30NA Combinations

Indoor Unit Combinations (Unit A + Unit B + Unit C)	Cooling Capacity (Btu/h)				Power Usage (W)	Energy Efficiency		Current (A)		Port Adapter Requirements	
	Heating Capacity (Btu/h)									Size	Quantity and Port Adapter Part No.
	Unit A	Unit B	Unit C	Total		SEER	HSPF	208V	230V		
MSZ-A09NA + MSZ-A09NA	9,000 10,900	9,000 10,900	— —	18,000 21,800	1,800 1,700	16.0	10.0	8.92 8.43	8.07 7.62	N.A.	
MSZ-A09NA + MSZ-A12NA	9,000 10,900	12,000 13,600	— —	21,000 24,500	2,000 1,980			9.91 9.81	8.96 8.87	N.A.	
MSZ-A09NA + MSZ-A15NA	9,000 10,100	15,000 16,900	— —	24,000 27,000	2,500 2,200	16.0	10.0	12.39 10.90	11.21 9.86	N.A.	
MSZ-A09NA + MSZ-A17NA	9,000 9,300	16,200 17,700	— —	25,200 27,000	2,700 2,200			13.38 10.90	12.10 9.86	N.A.	
MSZ-A09NA + MSZ-A24NA	7,600 7,300	20,400 19,700	— —	28,000 27,000	3,200 1,980	16.0	10.0	15.86 9.81	14.34 8.87	3/8 X 5/8" or 1/2 X 5/8"	(1) PAC-SG76RJ-E or (1) MAC-A456JP-E
	MSZ-A12NA + MSZ-A12NA	12,000 13,500	12,000 13,500	— —	24,000 27,000			2,500 2,200	12.39 10.90		11.21 9.86
MSZ-A12NA + MSZ-A15NA	11,500 12,000	14,500 15,000	— —	26,000 27,000	2,800 2,160	16.0	10.0	13.88 10.71	12.55 9.68	N.A.	
	MSZ-A12NA + MSZ-A17NA	10,800 11,200	15,200 15,800	— —	26,000 27,000			2,800 2,140	13.88 10.61	12.55 9.59	N.A.
MSZ-A15NA + MSZ-A15NA	13,000 13,500	13,000 13,500	— —	26,000 27,000	2,800 2,120	16.0	10.0	13.88 10.51	12.55 9.50	3/8 X 1/2"	(1) MAC-A454JP-E
	MSZ-A15NA + MSZ-A17NA	12,200 12,700	13,800 14,300	— —	26,000 27,000			2,800 2,110	13.88 10.46		12.55 9.46
MSZ-A17NA + MSZ-A17NA	13,000 13,500	13,000 13,500	— —	26,000 27,000	2,800 2,100	16.0	10.0	13.88 10.41	12.55 9.41	3/8 X 1/2"	(1) MAC-A454JP-E
	MSZ-A09NA + MSZ-A09NA + MSZ-A09NA	9,000 9,500	9,000 9,500	9,000 9,500	27,000 28,500			2,860 2,180	14.18 10.80		12.82 9.77
MSZ-A09NA + MSZ-A09NA + MSZ-A12NA	8,500 8,600	8,500 8,600	11,400 11,400	28,400 28,600	3,250 2,180	16.0	10.0	16.11 10.80	14.57 9.77	1/2 X 3/8"	(1) MAC-A455JP-E
	MSZ-A09NA + MSZ-A09NA + MSZ-A15NA	7,750 7,800	7,750 7,800	12,900 13,000	28,400 28,600			3,250 2,180	16.11 10.80		
MSZ-A09NA + MSZ-A09NA + MSZ-A17NA	7,300 7,350	7,300 7,350	13,800 13,900	28,400 28,600	3,250 2,180	16.0	10.0	16.11 10.80	14.57 9.77	N.A.	

Specifications are subject to change without notice.

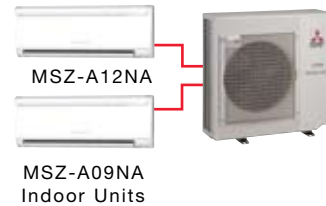
MXZ-2A20NA Combinations

Indoor Unit (Unit A + Unit B) Combinations	Cooling Capacity (Btu/h)			Power Usage (W)	Energy Efficiency		Current (A)	
	Heating Capacity (Btu/h)							
	Unit A	Unit B	Total		SEER	HSPF	208V	230V
MSZ-A09NA + MSZ-A09NA	9,000	9,000	18,000	1,740	16.0	8.5	8.62	7.8
	10,900	10,900	21,800	1,820			9.02	8.16
MSZ-A09NA + MSZ-A12NA	8,500	11,500	20,000	2,150	16.0	8.5	10.66	9.64
	9,500	12,500	22,000	1,780			8.82	7.98
MSZ-A09NA + MSZ-A15NA*	7,500	12,500	20,000	2,150	16.0	8.5	10.66	9.64
	8,250	13,750	22,000	1,780			8.82	7.98
MSZ-A12NA + MSZ-A12NA	10,000	10,000	20,000	2,150	16.0	8.5	10.66	9.64
	11,000	11,000	22,000	1,780			8.82	7.98

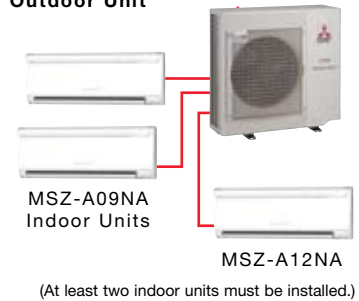
*Port Adapter size = 3/8" x 1/2", Qty = 1, Part No. = MAC-A454JP-E

Specifications are subject to change without notice.

MXZ-2A20NA (2:1) Outdoor Unit



MXZ-3A30NA (3:1, 2:1) Outdoor Unit



- Refer to combination chart for port adaptor references -

MXZ-4A36NA (4:1, 3:1) Outdoor Unit



MXZ-4A36NA Combinations

Indoor Unit Combinations (Unit A + Unit B + Unit C + Unit D)	Cooling Capacity (Btu/h)					Power Usage (W)	Energy Efficiency		Current (A)		Port Adapter Requirements		
	Heating Capacity (Btu/h)						SEER	HSPF	208V	230V	Size	Quantity and Port Adapter Part No.	
	Unit A	Unit B	Unit C	Unit D	Total								
MSZ-A09NA + MSZ-A09NA + MSZ-A09NA	9,000	9,000	9,000	—	27,000	2,860	16.0	8.5	14.18	12.82	N.A.		
	10,800	10,800	10,800	—	32,400	2,700			13.38	12.10			
MSZ-A09NA + MSZ-A09NA + MSZ-A12NA	9,000	9,000	12,000	—	30,000	3,270	16.0	8.5	16.21	14.66	N.A.		
	10,000	10,000	12,400	—	32,400	2,700			13.38	12.10			
MSZ-A09NA + MSZ-A09NA + MSZ-A15NA	8,800	8,800	14,500	—	32,100	3,500	16.0	8.5	17.35	15.69	N.A.		
	8,900	8,900	14,600	—	32,400	2,700			13.38	12.10			
MSZ-A09NA + MSZ-A09NA + MSZ-A17NA	8,200	8,200	15,700	—	32,100	3,500	16.0	8.5	17.35	15.69	N.A.		
	8,400	8,400	15,600	—	32,400	2,700			13.38	12.10			
MSZ-A09NA + MSZ-A09NA + MSZ-A24NA	6,900	6,900	18,300	—	32,100	3,500	16.0	8.5	17.35	15.69	3/8 X 5/8" or 1/2 X 5/8"	(1) PAC-SG76RJ-E or (1) MAC-A456JP-E	
	7,800	7,800	16,800	—	32,400	2,700			13.38	12.10			
MSZ-A09NA + MSZ-A12NA + MSZ-A12NA	8,700	11,700	11,700	—	32,100	3,500	16.0	8.5	17.35	15.69	N.A.		
	9,400	11,500	11,500	—	32,400	2,700			13.38	12.10			
MSZ-A09NA + MSZ-A12NA + MSZ-A15NA	8,000	10,700	13,400	—	32,100	3,500	16.0	8.5	17.35	15.69	N.A.		
	8,300	10,400	13,700	—	32,400	2,700			13.38	12.10			
MSZ-A09NA + MSZ-A12NA + MSZ-A17NA	7,600	10,100	14,400	—	32,100	3,500	16.0	8.5	17.35	15.69	N.A.		
	7,900	9,900	14,600	—	32,400	2,700			13.38	12.10			
MSZ-A09NA + MSZ-A15NA + MSZ-A15NA	7,500	12,300	12,300	—	32,100	3,500	16.0	8.5	17.35	15.69	3/8 X 1/2"	(1) MAC-A454JP-E	
	7,600	12,400	12,400	—	32,400	2,700			13.38	12.10			
MSZ-A09NA + MSZ-A15NA + MSZ-A17NA	7,100	11,700	13,300	—	32,100	3,500	16.0	8.5	17.35	15.69	3/8 X 1/2"	(1) MAC-A454JP-E	
	7,200	11,900	13,300	—	32,400	2,700			13.38	12.10			
MSZ-A09NA + MSZ-A17NA + MSZ-A17NA	6,700	12,700	12,700	—	32,100	3,500	16.0	8.5	17.35	15.69	3/8 X 1/2"	(1) MAC-A454JP-E	
	7,000	12,700	12,700	—	32,400	2,700			13.38	12.10			
MSZ-A12NA + MSZ-A12NA + MSZ-A12NA	10,700	10,700	10,700	—	32,100	3,500	16.0	8.5	17.35	15.69	N.A.		
	10,800	10,800	10,800	—	32,400	2,700			13.38	12.10			
MSZ-A12NA + MSZ-A12NA + MSZ-A15NA	9,900	9,900	12,300	—	32,100	3,500	16.0	8.5	17.35	15.69	N.A.		
	9,700	9,700	13,000	—	32,400	2,700			13.38	12.10			
MSZ-A12NA + MSZ-A12NA + MSZ-A17NA	9,400	9,400	13,300	—	32,100	3,500	16.0	8.5	17.35	15.69	N.A.		
	9,300	9,300	13,800	—	32,400	2,700			13.38	12.10			
MSZ-A12NA + MSZ-A15NA + MSZ-A15NA	9,100	11,500	11,500	—	32,100	3,500	16.0	8.5	17.35	15.69	3/8 X 1/2"	(1) MAC-A454JP-E	
	9,000	11,700	11,700	—	32,400	2,700			13.38	12.10			
MSZ-A09NA + MSZ-A09NA + MSZ-A09NA + MSZ-A09NA	9,000	9,000	9,000	9,000	36,000	3,820	16.0	8.5	18.55	16.78	1/2 X 3/8"	(1) MAC-A455JP-E	
	9,000	9,000	9,000	9,000	36,000	3,100			15.05	13.61			
MSZ-A09NA + MSZ-A09NA + MSZ-A09NA + MSZ-A12NA	8,300	8,300	8,300	11,100	36,000	3,820	16.0	8.5	18.55	16.78	1/2 X 3/8"	(1) MAC-A455JP-E	
	8,300	8,300	8,300	11,100	36,000	3,100			15.05	13.61			
MSZ-A09NA + MSZ-A09NA + MSZ-A09NA + MSZ-A15NA	7,700	7,700	7,700	12,900	36,000	3,820	16.0	8.5	18.55	16.78	N.A.		
	7,700	7,700	7,700	12,900	36,000	3,100			15.05	13.61			
MSZ-A09NA + MSZ-A09NA + MSZ-A12NA + MSZ-A12NA	7,700	7,700	10,300	10,300	36,000	3,820	16.0	8.5	18.55	16.78	1/2 X 3/8"	(1) MAC-A455JP-E	
	7,700	7,700	10,300	10,300	36,000	3,100			15.05	13.61			

*Port Adapter size = 3/8" x 1/2", Qty = 1, Part No. = MAC-A454JP-E

Specifications are subject to change without notice.

Mr. Slim®

Split-ductless A/C and Heat Pumps

Provides personalized comfort control for every room.



Mitsubishi Electric Shizuoka Works acquired ISO 9001 certification under Series 9000 of the International Standard Organization (ISO), based on a review of quality warranties for the production of air-conditioning equipment. The plant also acquired environmental management system standard ISO 14001 certification.



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