Mr. SLIM®

Split-ductless A/C and Heat Pumps

MITSUBISHI ELECTRIC
HVAC Advanced Products Division
#1 IN INNOVATION

www.mrslim.com

Mr. Slim® Split-ductless Systems Redefining Comfort

R410A INVERTER

M-Series Indoor Unit

Wireless
M-Series Remote

M-Series Outdoor Unit

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

What is Mr. Slim® Split-ductless Technology?

For decades, split-ductless air-conditioning and heat pump systems have been the quiet solution for cooling and heating problems around the world. Our quiet and powerful Mr. Slim systems have three main components: an indoor unit, outdoor unit, and 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 the industry leader in split-ductless air-conditioning technology – period. 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?

If a room is too hot or too cold, Mr. Slim can handle it! 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 they don't require ductwork, they're the perfect heating and cooling systems for renovating older buildings that were constructed before air conditioning was available – even those with plaster walls and brick facades. 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, classrooms, hospitals, nursing homes, restaurants, hotels, workout rooms, computer rooms, offices and churches.

Mr. Slim systems work hard for you even in extreme temperatures, keeping it toasty warm inside even when it's as cold as -13° F outside with the Hyper-heating INVERTER (H2i™) P-Series

system. They're also equipped with an anti-allergen filter and prevent the cross-flow of air with contaminants. And because they can be controlled by zone, it's easy to set the controls for the exact room temperature you want.

How does it work? Mr. Slim cooling and heating solutions can fit into 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, with zero Ozone Depletion Potential (ODP). The units themselves are also made of recycleable materials. To find out more about Mr. Slim split-ductless products or to locate an authorized Diamond Dealer near you, visit www.mrslim.com.

Features	Benefits
Efficient, Quiet Operation	Mr. Slim products are designed to be quieter and more efficient than old window units, so you'll sleep easier with less worry about operating costs.
No Ductwork and Easy to Install	Mr. Slim systems install without ductwork, requiring only a three-inch opening in the wall or ceiling. This design allows you to retain the original aesthetics of a room. Because no ductwork is involved, the installation is quick and simple, which means little or no disruption to your home or business.
Versatile	From living rooms to boardrooms, from classrooms to kitchens to cafeterias, there's a Mr. Slim system to fit any cooling or heating need.
Wireless Remote Controller	Mr. Slim M-Series systems come with a convenient wireless remote controller that puts you in control of your own comfort. (Optional wired remote controller available)
INVERTER Technology	You will enjoy high-speed cooling and heating and consistent delivery of comfort year-round.
Environmentally Friendly	Mr. Slim systems use R410A, an environmentally-friendly refrigerant.

Sure you can use a window unit,

but it will block your view to the outside from any angle. It's also an open invitation for outsiders to pay you a visit. Oh, and don't forget that old window units are also ugly, drippy, noisy and add no significant value to your home. On the other hand, Mr. Slim® products from Mitsubishi Electric are easy for your authorized contractor to install. They work quietly and don't leave a large, easily-accessed opening in your otherwise secure home. And split-ductless systems like Mr. Slim products also add value to your home. All-in-all, window units may be the easy solution, but Mr. Slim systems from Mitsubishi Electric are the smart solution. You get what you pay for when it comes to innovative and reliable air conditioning, and with Mr. Slim products you invest in the comfort for your home or business.

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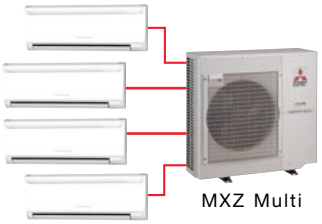
MR. SLIM PRODUCT FAMILY

INVERTER

MS/MSY/MSZ

M-SERIES



MXZ Multi

MSZ-A09NA (4)

PLA

PKA

PCA

P-SERIES

GLOSSARY

AIR CONDITIONER: A mechanical device used to control temperature, humidity, cleanliness, and air movement in a confined space.

Btu/h (British Thermal Units per Hour): A measure of cooling or heating capacity.

CAPACITY or LOAD: A refrigeration rating system usually measured in Btu/h.

COMPRESSOR: A refrigeration or air-conditioning system pump that circulates refrigerant through pipes between an outdoor and an indoor unit using pressure.

HEAT PUMP: An air-conditioning system can reverse the direction of refrigerant flow to provide either cooling or heating to the indoor space.

HSPF (Heating Season Performance Factor): A rating of the seasonal efficiency of a heat pump unit when operating in the heating mode.

HVAC: A term which stands for Heating, Ventilation, and Air-Conditioning.

INDOOR UNIT: The air-handler of an air-conditioning system, which contains a heat exchange coil, filters, and fan and provides conditioned air into the space.

INVERTER TECHNOLOGY: Mitsubishi Electric's MSY, MSZ and MXZ and all P-Series outdoor units use INVERTER-driven compressor technology (Variable Frequency Drive) to provide exceptional indoor high-speed cooling and heating. By responding to indoor and outdoor temperature changes, these systems reduce power consumption by varying the compressor speed for extra energy savings. The system operates only at the levels needed to maintain a constant and comfortable indoor environment. Our CITY MULTI® product line also incorporates INVERTER technology.
(Visit www.mehvac.com for details.)

MICROPROCESSOR: An electrical component consisting of integrated circuits, which may accept, store, control, and output information.

OUTDOOR UNIT: A component of an air-conditioning system which contains compressor, propeller fan, circuit board, and heat exchange coil. It pumps refrigerant to/from indoor unit.

REFRIGERANT: A gas/liquid substance used to provide cooling by direct absorption of heat. Mitsubishi Electric products use environmentally-friendly R410A refrigerant.

REFRIGERANT LINES: Copper tubing through which refrigerant flows to and from indoor and outdoor units.

SEER (Seasonal Energy Efficiency Ratio): A rating of the seasonal efficiency of air-conditioning or heating units in cooling mode.

SPLIT-DUCTLESS SYSTEM: A system comprised of a remote outdoor condensing unit connected by refrigerant pipes to a matching, non-ducted indoor air-handler and a remote controller. Special cases for introducing ventilated air may call for limited ducting to air-handler from outside.

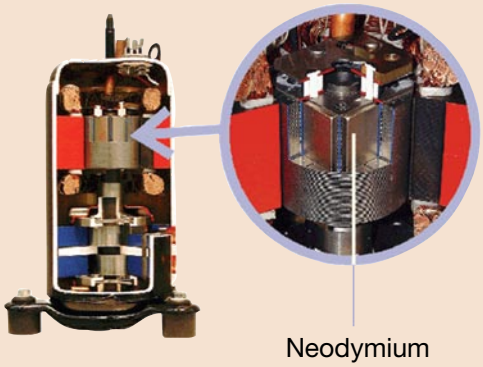
INVERTER

INVERTER-DRIVEN COMPRESSOR TECHNOLOGY

INVERTER Technology for Superior Year-round Comfort and Performance

Select 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. This also allows the system to engage without affecting other household appliances. 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.

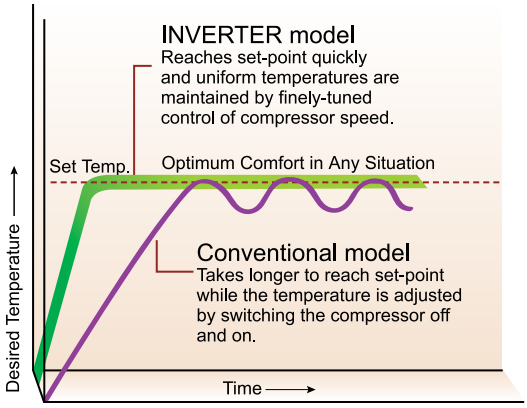


INVERTER-driven Compressor

INVERTER Technology	Conventional Technology
Precise rotation speed control provides comfortable, consistent room temperature.	Requires high starting current that affects other appliances throughout household.
High rotation speed provides fast cooling and heating.	Requires a long time to reach desired temperature.
Low rotation speed efficiently maintains desired temperature.	Has uncomfortable temperature fluctuation.
Low rotation speed keeps starting current low, leaving other appliances unaffected.	Requires heavy energy usage every time compressor turns on.

High-speed Cooling and Heating

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.



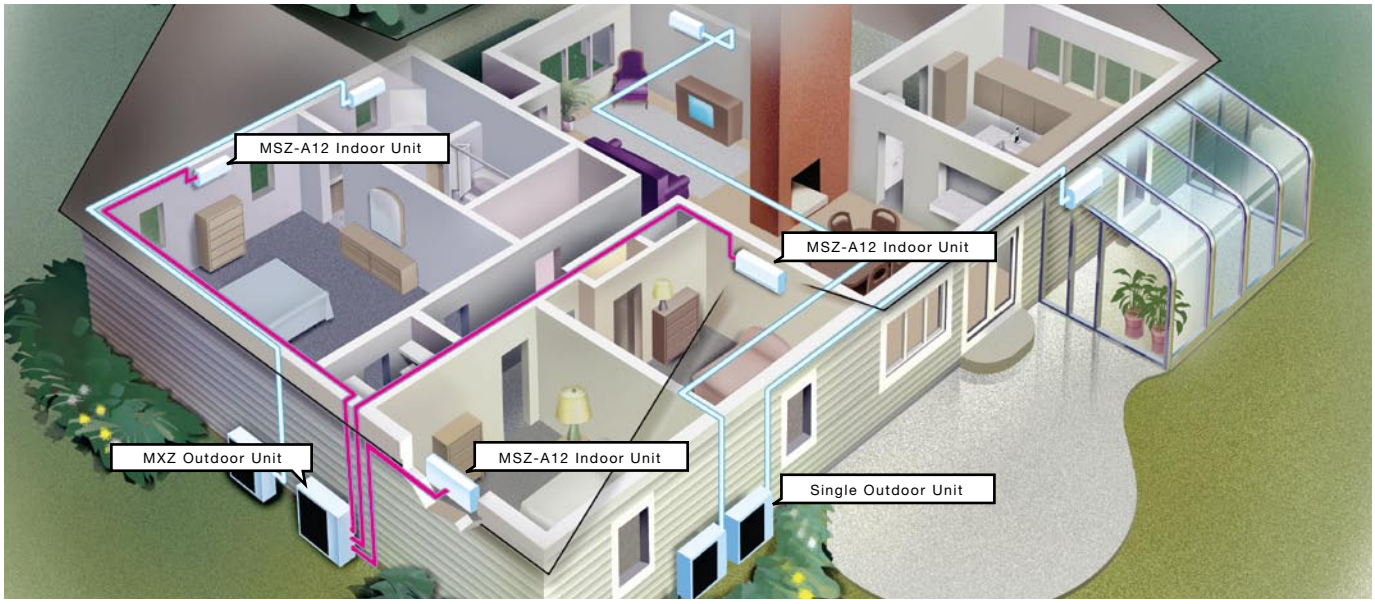
Optimum Comfort Year-round

INVERTER units detect subtle changes in temperature and automatically adjust compressor speed – unlike conventional units, which start and stop repetitively. Low rotation speed efficiently maintains desired temperature, reducing temperature swings and provides a more comfortable climate.

Extra Energy Savings

For optimum performance, INVERTER technology delivers only the energy needed to satisfy the cooling and heating load of a room, reducing energy consumption.

Our CITY MULTI® VRFZ product line also employs INVERTER technology. Like Mr. Slim®products, the CITY MULTI INVERTER 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

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

Small Size, Big Performance

While all of our Mr. Slim units are compact and lightweight, the M-Series is designed specifically for tight spaces. But don't be fooled: the powerful M-Series delivers plenty of cool or warm air to almost any size room. And unlike window units, the Mr. Slim indoor unit's small size, neutral color, and mounting position mean it blends in well.

No Ductwork Required

Mr. Slim systems need 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 means quicker installation, less mess, and a better-looking and more comfortable space.

Efficient. Quiet. Secure. Pick All Three.

That's right. Mr. Slim units deliver all three! They're energy efficient because of their small design, smart functionality, lack of ductwork and INVERTER technology. They're quiet because their fans deliver air quietly and continuously, with only a gentle whoosh for constant circulation and filtration. (That's why Mr. Slim systems were the first choice for thousands of churches, schools, and libraries across the U.S.) And they're secure because each system installs with just one three-inch opening that connects the indoor and outdoor units, so you don't have to worry about intruders gaining access through easy-to-remove window units.

New 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.

Choose the Mr. Slim® Product Size That's Right for You

Room Size	Performance
100 - 350 Sq. Ft.	<9,500 Btu/h
350 - 440 Sq. Ft.	9,500 - 12,000 Btu/h
440 - 550 Sq. Ft.	12,000 - 15,000 Btu/h
550 - 600 Sq. Ft.	15,000 - 16,200 Btu/h
600 - 800 Sq. Ft.	16,200 - 22,000 Btu/h
800 - 1,100 Sq. Ft.	22,000 - 30,000 Btu/h

This table is for general guidance only. Additional conditions may factor into your actual cooling or heating needs. Please contact your contractor or Mitsubishi Electric HVAC for a more accurate determination of your specific cooling or heating needs.

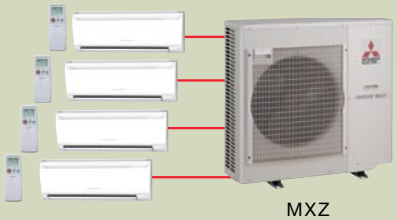
M-SERIES LINEUP

Optional wired remote controller available

MS/MSY/MSZ/MXZ
Wall-mounted
Air Conditioners and
Heat Pumps
[pgs.10-15]

INVERTER

(MSY & MSZ
Models only)

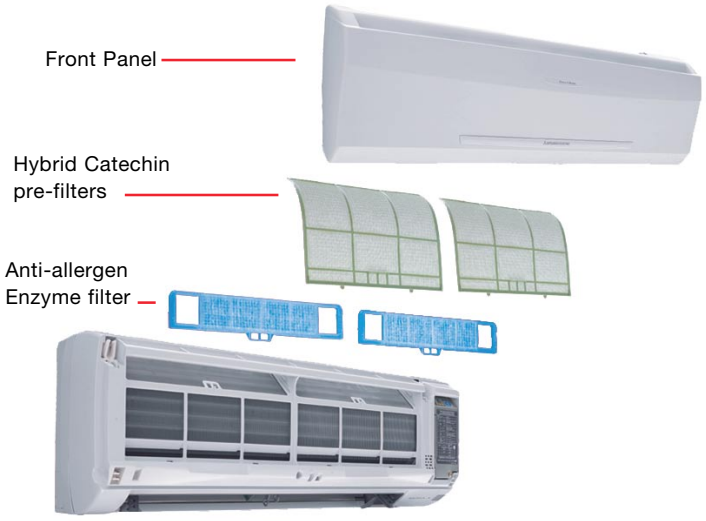


MXZ
Wall-mounted
Heat Pumps
[pgs.14-15]

Multiple Filters for Cleaner, Healthier Air

Mr. Slim M-Series units use a sophisticated multi-part 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. An anti-allergen filter reduces germs, bacteria and viruses and traps dust, pollens, mites, and other particles; it 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 hybrid catechin filter washable and, if properly maintained with monthly cleanings, effective for more than 10 years.

Features	Benefits
INVERTER Technology	Maximizes energy savings by making sure only the energy needed to cool or heat an area is used.
No Ductwork	No need for major construction and remodeling hassle because the Mr. Slim system installs quickly and easily.
Zone Control	Maximum control and energy efficiency are realized by cooling and heating only those spaces you want.
Advanced Microprocessor Controls	Advanced self-monitoring controls keep you comfortable no matter what conditions are outside.
Convenient Wireless Remote Controller	The remote controller offers comfort control in the palm of your hand. Press a button, and superior air conditioning is yours.
Washable Long-Life Anti-Allergen Filters	Filters help improve air quality and save you money by cleaning them instead of replacing them.
Auto Cool/ Heat Changeover	System switches from cooling to heating, automatically.
Environmentally Friendly	Mr. Slim systems use R410A, an environmentally-friendly refrigerant.

Mr.Slim®

MS/MSY

COOLING ONLY
WALL-MOUNTED SERIES

Mr.Slim®

MSZ

HEAT PUMPS
INVERTER-DRIVEN
WALL-MOUNTED SERIES

Air Conditioners

MS and MSY Models
9,500 to 22,000
Btu/h Capacity

M-Series
Wireless Remote
Controller

Heat Pumps

MSZ Model
9,000 to 36,000
Btu/h Capacity

M-Series
Wireless Remote
Controller

What is comfort? Comfort is a home that's cool and dry in the summer and cozy and warm in the winter. This is what you get with the Mr. Slim system: perfect year-round comfort. The M-Series models install easily. Mounted high on the wall, the indoor unit blends into most room environments without taking up any window space. These models also feature *automatic cooling/heating changeover,* which automatically switches the unit between cooling and heating to compensate for fluctuating temperatures. Our M-Series models 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.

No Ductwork Required

Mr. Slim systems need no ductwork, so 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. Our systems are also very flexible and easy to install in almost any space.

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.

System Control in the Palm of Your Hand

Mr. Slim's M-Series offers a comprehensive remote controller

Features	Benefits
Proven INVERTER-driven Compressor Technology	Your building will be pleasant year-round because our INVERTER technology provides powerful, quiet, and energy-efficient cooling and heating.
EFFICIENT	Our systems effectively use energy so you'll spend less money for operation and enjoy greater comfort.
Maintains Constant Temperature Levels	INVERTER technology eliminates annoying swings in temperature, which can cause drafts in any room. You'll stay comfortable year-round.
Superior Heating Performance	Compressor rotation speed is greatly accelerated to help improve the heat exchange between indoor and outdoor fan coils. Even at 15°F Mr. Slim can provide 50% of the rated heating capacity.

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)-A24NA models adds 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.

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 models 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 enzyme filter*. Using *blue enzymes*, this filter helps minimize germs, bacteria, and viruses.

Warm Air, No Drafts

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

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 combinations of indoor and outdoor units, so the system is flexible enough to conform to your particular cooling and heating needs.

Powerful, Efficient, and Versatile

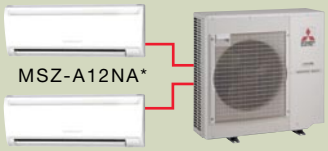
Reap the benefits of our latest INVERTER-driven technology. Appreciate high rotation speeds for faster cooling and heating, low rotation speeds to efficiently maintain comfort when a desired temperature is reached. The system ramps up slowly, keeping initial starting currents low so they won't affect your other household appliances. The MXZ series is the perfect solution to cool spaces during the winter because it can maintain cooling when outside ambient temperatures reach as low as 14° F.

Multi-zone Heat Pump System Attributes

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

MXZ-2A20NA (2:1) Outdoor Unit

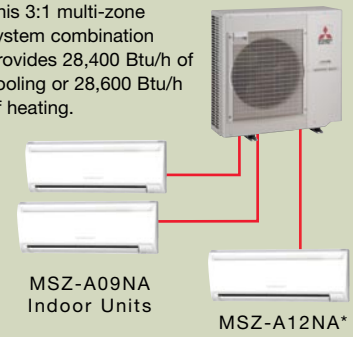
This 2:1 multi-zone system provides 20,000 Btu/h of cooling or 22,000 Btu/h of heating.



* Requires port adapter accessory (See page 31 for more details)

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

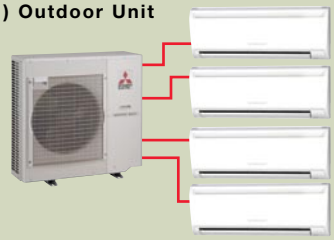
This 3:1 multi-zone system combination provides 28,400 Btu/h of cooling or 28,600 Btu/h of heating.



* Requires port adapter accessory (See page 31 for more details)

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

This 4:1 multi-zone system combination provides 36,000 Btu/h of cooling or 36,000 Btu/h of heating.



* Requires port adapter accessory (See page 31 for more details)

MS/MSY COOLING-ONLY

M-SERIES Specifications

Model Name	Indoor Unit		MS-A09WA	MS-A12WA	MSY-A15NA	MSY-A17NA	MSY-A24NA
	Outdoor Unit		MU-A09WA	MU-A12WA	MUY-A15NA	MUY-A17NA	MUY-A24NA
Cooling *1	Rated Capacity	Btu/h	9,500	12,000	15,000	16,200	22,000
	Capacity Range	Btu/h	-	-	3,100-15,000	3,100-16,200	4,400-22,000
	Total Input	W	870	1,070	1,690 (210-1,690)	2,070 (210-2,070)	2,880 (290-2,880)
	Energy Efficiency	SEER	13		16		
	Moisture Removal	Pints/h	2.7	3.2	4.7	5.1	7.3
	Sensible Heat Factor		0.68	0.70	0.65		0.63
Power Supply	Phase, Cycle, Voltage		1 Phase, 60Hz, 115V *2		1 Phase, 60Hz, 208/230V *2		
Voltage	Indoor - Outdoor S1-S2		AC 115V		AC 208/230V		
	Indoor - Outdoor S2-S3		DC12-24V		DC12-24V		
	Indoor - Remote Controller		Wireless Type		Wireless Type (Optional Wired Controller: DC12V)		
Indoor Unit	MCA	A	1.2		1.0		
	Fan Motor	F.L.A.	0.95		0.76		
	Airflow (Lo-Med-Hi)	DRY (CFM)	183-261-335	222-286-406	268-328-381		296-431-568
		WET (CFM)	162-233-300	198-254-363	240-293-342		265-385-508
	Sound Pressure Level (Lo-Med-Hi)	dB(A)	26-32-40	33-38-45	34-40-45	34-40-46	34-40-49
	External Finish Color		Munsell No. 1.0Y 9.2/0.2		Munsell No. 1.0Y 9.2/0.2		
	Dimension Unit	W: In.	30-11/16		30-11/16		43-5/16
		D: In.	8-1/4		8-1/4		10-1/4
		H: In.	11-3/4		11-3/4		12-13/16
	Weight Unit	Lbs.	23		23		37
	Field Drain Pipe Size O.D.	In.	5/8		5/8		
Outdoor Unit	MCA	A	14	16	14		17
	Max. Fuse Size	(Time Delay) A	15	20	15		20
	Fan Motor	F.L.A.	0.63	0.93	0.52		0.93
	Compressor	Model (Type)	Single Rotary		DC Inverter-driven Twin Rotary		
		R.L.A.	9.3	10.82	10.1		
		L.R.A.	47	56	12		16
	Airflow	CFM	1,083	1,327	1,249		1,729
	Refrigerant Control		Capillary Tube		Linear Expansion Valve		
	Sound Pressure Level (Cooling) *1	dB(A)	47	52	50	52	55
	External Finish Color		Munsell No. 3Y 7.8/1.1		Munsell No. 3Y 7.8/1.1		
	Dimensions	W: In.	31-1/2	33-7/16	31-1/2		33-1/16
		D: In.	11-1/4	11-7/16	11-1/4		13
		H: In.	21-5/8	23-13/16	21-5/8		33-7/16
	Weight	Lbs.	78	96	88		128
Remote Controller	Type		Wireless Remote		Wireless Remote (Optional Wired Controller)		
Refrigerant	Type		R410A		R410A		
	Charge	Lbs., Oz.	2, 5	3, 1	2, 7		4
	Oil	Type (Fl. Oz.)	NE022 (10.8)		NE022 (15.2)		
Refrigerant Pipe	Gas Side O.D.	In.	3/8	1/2	1/2		5/8
	Liquid Side O.D.		1/4		1/4		
	Height Difference (Max.)	Ft.	35		40		50
	Length (Max.)		65		65		100
Connection Method	Indoor/Outdoor		Flared/Flared		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 HEAT PUMP

M-SERIES Specifications

Model Name	Indoor Unit		MSZ-A09NA	MSZ-A12NA	MSZ-A15NA	MSZ-A17NA	MSZ-A24NA
	Outdoor Unit		MUZ-A09NA	MUZ-A12NA	MUZ-A15NA	MUZ-A17NA	MUZ-A24NA
Cooling *1	Rated Capacity	Btu/h	9,000	12,000	15,000	16,200	22,000
	Capacity Range	Btu/h	5,500-9,000	5,700-12,000	3,100-15,000	3,100-16,200	4,400-22,000
	Total Input	W	690 (390-690)	1,170 (395-1,170)	1,690 (210-1,690)	2,070 (210-2,070)	2,880 (290-2,880)
	Energy Efficiency	SEER	17		16		
	Moisture Removal	Pints/h	2.3	3.2	4.7	5.1	7.3
	Sensible Heat Factor		0.71	0.70	0.65		0.63
Heating at 47º F *2	Rated Capacity	Btu/h	10,900	13,600	18,000	20,100	23,200
	Capacity Range	Btu/h	5,200-12,600	5,200-13,600	3,400-20,900		3,600-24,400
	Total Input	W	860 (350-1,100)	1,160 (350-1,160)	1,790 (250-2,330)	2,150 (250-2,330)	2,350 (260-2,570)
	HSPF (Region IV)	Btu/h/W	8.2				
Heating at 17º F *3	Capacity	Btu/h	7,700	8,300	13,000		15,200
	Total Input	W	880	930	1,740		1,960
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)	152-229-307	152-240-353	268-328-381		296-431-568
		WET (CFM)	134-205-275	134-215-318	240-293-342		265-385-508
	Airflow (Heat) (Lo-Med-Hi) *2	DRY (CFM)	159-222-307	159-240-353	254-314-381		296-486-568
	Sound Pressure Level (Cooling) (Lo-Med-Hi) *1	dB(A)	22-33-38	22-34-42	34-40-45	34-40-46	34-40-49
	Sound Level Pressure (Heating) (Lo-Med-Hi) *2		22-33-38	22-34-42	34-38-44		34-40-48
	External Finish Color		Munsell No. 1.0Y 9.2/0.2				
	Dimension Unit	W: In.	30-11/16				43-5/16
		D: In.	8-1/4				10-1/4
		H: In.	11-3/4				12-13/16
	Weight Unit	Lbs.	23				37
	Field Drain Pipe Size O.D.	In.	5/8				
Outdoor Unit	MCA	A	12		14		17
	Max. Fuse Size	(Time Delay) A	15				20
	Fan Motor	F.L.A.	0.52				0.93
	Compressor	Model (Type)	DC Inverter-driven Single Rotary		DC Inverter-driven Twin Rotary		
		R.L.A.	7.8		10.1		
		L.R.A.	9.2		12		16
	Airflow	CFM	1,129	1,094	1,249		1,729
	Refrigerant Control		Linear Expansion Valve				
	Defrost Method		Reverse Cycle				
	Sound Pressure Level	dB(A) *1	48		50	52	55
	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
	Weight	Lbs.	75	82	88		128
Remote Controller	Type		Wireless Remote (Optional Wired Controller)				
Refrigerant	Type		R410A				
	Charge	Lbs., Oz.	2	2, 5	2, 7		4
	Oil	Type (Fl. Oz.)	NE022 (10.8)		NE022 (15.2)		
Refrigerant Pipe	Gas Side O.D.	In.	3/8		1/2		5/8
	Liquid Side O.D.		1/4				
	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. 80º F (27º C), W.B. 67º F (19º C); Outdoor: D.B. 95º F (35º), W.B. 75º F (24º C).

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

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

MXZ-MULTI INVERTER HEAT PUMP

MXZ-SERIES Specifications

INVERTER R410A

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
	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.			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%.
Specifications are subject to change without notice.

LIMITED WARRANTY | Six-year warranty on compressor. One-year warranty on parts.

MXZ-3A30NA Combinations

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

Specifications are subject to change without notice.

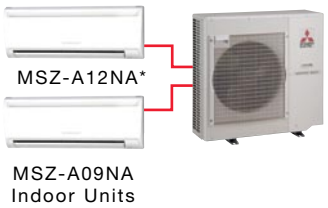
MXZ-2A20NA Combinations

Indoor Unit (Unit A + Unit B) Combinations	Cooling Capacity (Btu/h) / Heating Capacity (Btu/h)			Power Usage (W)	Energy Efficiency		Current (A)	
	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.

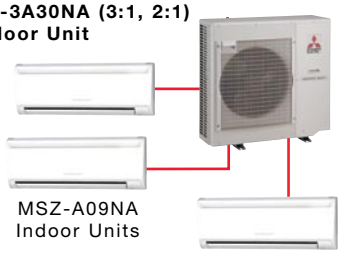
MXZ-2A20NA (2:1) Outdoor Unit



* Requires port adapter accessory (See page 31 for more details)

(Two indoor units must be installed)

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



* Requires port adapter accessory (See page 31 for more details)

(At least two indoor units must be installed)

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

* Requires port adapter accessory (See page 31 for more details)

(At least three indoor units must be installed)

MXZ-4A36NA Combinations

Indoor Unit Combinations (Unit A + Unit B + Unit C + Unit D)	Cooling Capacity (Btu/h) / Heating Capacity (Btu/h)					Power Usage (W)	Energy Efficiency		Current (A)		Port Adapter Requirements	
	Unit A	Unit B	Unit C	Unit D	Total		SEER	HSPF	208V	230V	Size	Qty. and Pipe Adapter Part No.
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.

P-SERIES

LARGE RESIDENTIAL, VARIED COMMERCIAL, AND INSTITUTIONAL

The Mr. Slim P-Series delivers flexible and convenient cooling and heating solutions to almost any commercial, institutional, or large residential application. Choose from small, quiet indoor and outdoor units that operate with the increased efficiency you need. Whether in a church, office building, school, nursing home, restaurant, retail store, or equipment room, the compact design of the P-Series indoor units makes cooling and heating difficult spaces a breeze. With wall-mounted, ceiling-recessed, and ceiling-suspended options, the P-Series is the perfect solution for almost any building. The P-Series provides up to 42,000 Btu/h of cooling or heating performance.

INVERTER Technology

INVERTER-driven compressor technology gives Mr. Slim systems a higher degree of cooling and heating abilities that outperform and are more energy efficient than conventional systems. Desired room temperature is reached more quickly and maintained more consistently. This eliminates the peaks and valleys of temperature swings that we're used to with older, conventional units.

The PKA and PLA indoor units can be used with our Hyper-heating INVERTER (H2i™) outdoor heat pump units. These innovative H2i outdoor units are designed to deliver consistent, efficient heating and cooling even in extreme low outdoor temperatures from a single system.

Flexible Control

Convenient and efficient zone control means you can cool or heat only the spaces in use. You can even have single or dual controllers connected to one system. The controller does not even have to be in the space shared with the indoor unit, which measures the room temperature. Features include a larger mode display, weekly timer, temperature range setting, setting lock, auto-off, expanded fault codes, and service call number display.

Low Ambient Operation

This feature, along with the addition of a low-ambient wind baffle accessory, allows for a space to be air-conditioned even when it is as low as 0° F outside. This cooling ability is important when dealing with electronic equipment rooms, telecom substations, surveillance mechanical rooms, restaurant kitchens, fitness centers, and more.

Redi-charged Systems

P-Series outdoor units come with enough refrigerant to be installed up to 100 feet from the indoor units. Linesets can be run up to 100 feet from PUY(Z)12-18 outdoor units and 165 feet from PUY(Z)24-42 outdoor units when additional charge is added. Thanks to unique design profiles and R410A refrigerant, these systems are easier to fit

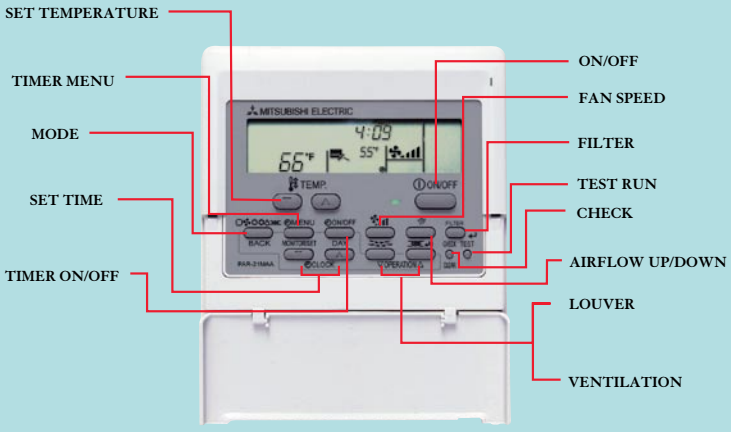
P-Series Wired Remote Controller

PKA Wall-mounted Air Conditioners and Heat Pumps
[pgs.22-24]

PLA Ceiling-recessed Air Conditioners and Heat Pumps
[pgs.25-27]

PCA Ceiling-suspended Air Conditioners and Heat Pumps
[pgs.28-30]

Features	Benefits
INVERTER Technology	You can enjoy high-speed cooling and heating and consistent delivery of comfort year-round.
Quiet Operation	You can hold a board meeting or teach a class in quiet comfort.
No Ductwork	There's no need to shut down for major construction because installation is quick and easy.
Zone Control	You can cool and heat only those spaces desired for maximum control and energy efficiency.
Dehumidification	Drier air means healthier air and less damage to books or furniture.
Advanced Microprocessor Controls	Built-in electronics ensure efficient operation and maximum performance for optimum comfort.
Low Ambient Cooling Down to 0° F outdoors (requires a wind baffle)	This feature is perfect for computer network centers and telecom equipment rooms that need help to stay cool even during winter months.
Environmentally Friendly	Mr. Slim systems use R410A, an environmentally-friendly refrigerant.



MULTILINGUAL

into any space. R410A is environmentally friendly with zero Ozone Depletion Potential (ODP).

Hot-start System

Mr. Slim heat pumps use our *hot-start technology* to provide warmth from the beginning by ramping up fan speed as the coil warms. So when you want warm air without annoying drafts, that's what you'll get.

Installation Service and Maintenance Ease

P-Series outdoor units are designed with easy service and maintenance in mind. Maintenance points are located behind easy-access panels, to make installation and service a breeze for a trained technician. Four-way piping access allows connection in four directions: front, rear, right, and bottom (all PUY/PUZ models). Using the new A-Control system, just three polarity sensitive wires plus a ground conductor run from the outdoor to the indoor unit, providing both power and communication connections. Two non-polar wires connect the indoor unit and wall-mounted controller. This wiring design helps avoid installation errors. An optional wireless remote controller kit is available for the P-Series ceiling-mounted indoor units.

More Compact INVERTER-driven Outdoor Units

PUY/PUZ

12,000-18,000 Btu/h

24,000-36,000 Btu/h

42,000 Btu/h

These Mr. Slim units employ advanced Pulse Amplitude Modulation (PAM). PAM adjusts the form of the current wave to emulate the form of the supply voltage wave so that 98 percent of input power is effectively utilized.

H2i™

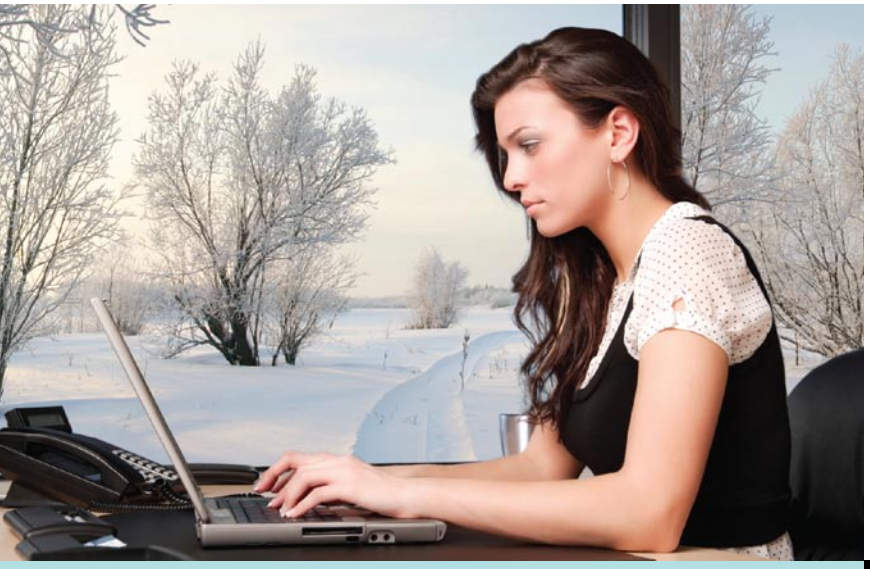
HYPER-HEATING INVERTER P-SERIES HEAT PUMP SYSTEM

Unequaled Comfort, Year Round

The heating and cooling success of Mitsubishi Electric's INVERTER heat pump systems is well-documented. Our Hyper-heating INVERTER (H2i) technology takes it a step further with the added benefit of year-round comfort with a single system, even on the coldest days of the year. The 3-ton wall-mounted or ceiling recessed indoor units connected to the H2i P-Series outdoor units are flexible enough to satisfy almost any light commercial or institutional renovation or new construction project.

The Next Generation in Heat Pump Technology

These H2i outdoor units give a new level of performance to Mr. Slim P-Series models, with the extra heat-generating power it takes to deliver comfort and consistency in extreme climates. H2i units use Mitsubishi Electric's INVERTER-driven scroll compressor technology to achieve the desired room temperature quickly and maintain it consistently – conserving energy. Plus, with the integration of our exclusive H2i flash technology, these units re-collect heat energy that is normally wasted in the flash process at the outdoor coil. This process helps the H2i system overcome issues commonly associated with conventional heat pumps, such as decreases in low-side pressure, refrigerant mass flow rate and operational capacity. As a result, H2i



units exhibit 100% of rated heating capacity at 5° F and 87% at -4° F outdoor ambient temperatures. Plus, they use only environmentally friendly refrigerants.

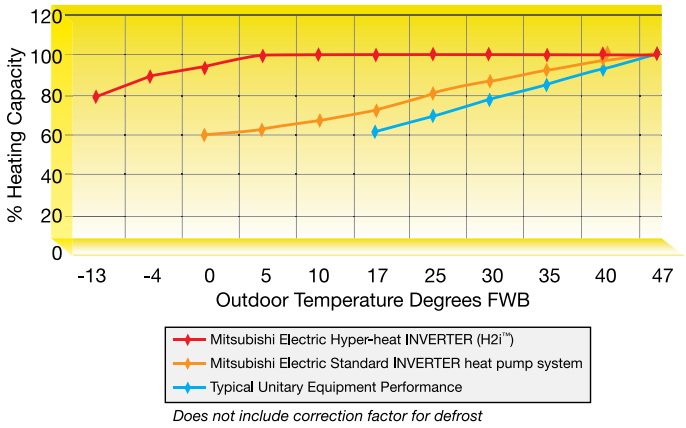
H2i heat pumps offer a variety of features designed to take the worry out of temperature control, such as automatic restart in the case of power outages and automatic cool/heat changeover.

For applications in which you need to cool a space even when it is below freezing outside, such as computer or mechanical rooms and kitchens, air conditioning down to 0° F outdoor ambient temperature is possible with the addition of a wind baffle. Whether cooling or heating, the H2i P-Series gives you the flexibility to temper extreme outdoor temperatures.

Warm Air Quickly!

At startup, a special circuit quickly delivers refrigerant to the air-conditioning cycle. This process rapidly increases the mass flow rate in the system. As a result, air at comfortable temperatures begins flowing from indoor units right away. Even at outdoor temperatures of -13° F, the H2i system can discharge 100° F temperature air from the indoor units. At 5° F outdoor temperature and above, the discharge temperature reaches an impressive 110° F with a 40° F temperature rise (see Figure 2). This translates into a comfortable climate in all zones of a home or office, whether heating or cooling, no matter the temperature outside.

Hyper-heating INVERTER vs. Other Units
% Heating Capacity vs. Outdoor Temperature



Does not include correction factor for defrost

INDOOR UNITS:

PKA

The PK indoor unit is a compact and quiet wall-mounted unit that delivers exceptional cooling and heating performance.

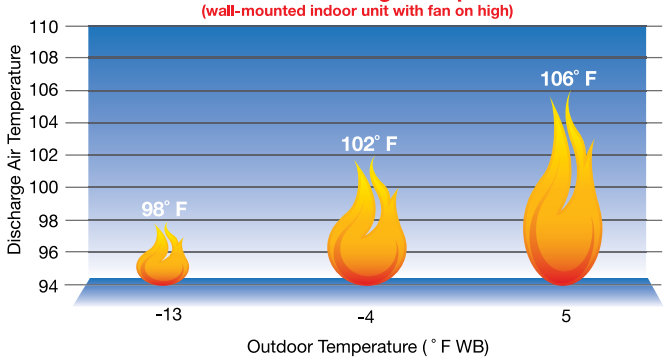
- Hard-wired, wall-mounted, remote controller (-FA model) or wireless (-FAL model)
- Adjustable vane control
- Easy-clean filters

PLA

PLA-A**-BA ceiling-recessed indoor units offer increased application flexibility and ease of installation especially in tight spaces.

- Independent vane motor control: five fixed settings plus swing
- Auto wave airflow in heating mode—unit independently cycles through all vertical positions for a more even heat distribution
- Built-in drain lift mechanism for condensate removal; lifts up to 33-7/16 in.
- Optional i-see™ sensor accessory
- Easy clean filters

Indoor Unit Discharge Temperature
(wall-mounted indoor unit with fan on high)



Two in One

If you have a large space, such as a long room or hallway, which would be considered one zone, two indoor units can be connected to the outdoor unit to cool or heat the space and provide the maximum amount of comfort. This process is called *Twinning*, two indoor units acting as one to spread the outdoor unit capacity over a large area.

Continuous Comfort

Unlike typical fixed-speed or staged heat pumps, the INVERTER-driven compressor in the H2i outdoor unit adjusts its speed to precisely match the load requirements within each zone. The use of the INVERTER-driven compresssor allows for constant comfort all year long, year after year.

Heating Performance at Low Temperatures

Our Hyper-heating INVERTER system provides tremendous heating performance at extremely low temperatures while keeping effective energy usage at the forefront. Take a look at these impressive COP (Coefficient of Performance) values. The Mr. Slim H2i P-Series systems are able to maximize efficiency at low temperatures while providing tremendous heating output.

H2i COP	PKA	PLA
47° F	3.59	3.45
17° F	2.10	2.10
5° F	1.90	1.90

H2i™ HEAT PUMP

P-SERIES Specifications

INVERTER

R410A

FA = Wired Controller; FAL = Wireless Controller

Model Name	Indoor Unit		PKA-A36FA(L)	PLA-A36BA
	Outdoor Unit		PUZ-HA36NHA	PUZ-HA36NHA
Cooling *1	Rated Capacity	Btu/h	34,200	36,000
	Capacity Range	Btu/h	18,000-34,200	18,000-36,000
	Total Input	W	2,950	3,120
	Energy Efficiency	SEER	16.0	
	Moisture Removal	Pints/h	7.1	6.8
	Sensible Heat Factor		0.77	0.79
Heating at 47° F *2	Rated Capacity	Btu/h	38,000	
	Capacity Range	Btu/h	18,000-40,000	
	Total Input	W	3,100	3,230
	HSPF Region (IV)	Btu/h/W	9.4	
Heating at 17° F *3	Capacity	Btu/h	38,000	
	Total Input	W	5,300	
Heating at 5° F *4	Capacity	Btu/h	38,000	
	Total Input	W	5,860	
Power Supply	Phase, Cycle, Voltage		1-Phase, 60Hz, 208/230V	
	Breaker Size	A	30	
Voltage	Indoor - Outdoor S1 - S2		AC 208/230V	
	Indoor - Outdoor S2 - S3		DC24V	
	Indoor - Remote Controller		DC12V: For Wired Controller (FA)	DC12V
Indoor Unit	MCA	A	1.0	2.0
	Fan Motor	F.L.A.	0.52	1.00
	Fan Motor Output	W	70	120
	Airflow	DRY (CFM)	780-990 (Lo-Hi)	710-810-920-1,060 (Lo-M1-M2-Hi)
		WET (CFM)	700-890 (Lo-Hi)	670-770-880-1,030 (Lo-M1-M2-Hi)
	Sound Pressure Level	dB(A)	46-49 (Lo-Hi)	32-34-37-40 (Lo-M1-M2-Hi)
	External Finish Color	Munsell No.	3.4Y 7.7/0.8	Grille: 6.4Y 8.9/0.4
	Dimension Unit	W: In.	66-1/8	33-1/16 (Grille: 37-3/8)
		D: In.	9-1/4	33-1/16 (Grille: 37-3/8)
		H: In.	13-3/8	11-3/4 (Grille: 1-3/8)
	Weight Unit	Lbs.	62	55 (Grille: 13)
	Drain Lift Mechanism (Included)	H: In.	N/A	33-7/16
	Field Drainpipe Size	In.	I.D.: 13/16	O.D.: 1-1/4
Outdoor Unit	MCA	A	28	
	MOCP	A	40	
	Fan Motor	F.L.A.	0.4 + 0.4	
	Fan Motor Output	W	60 + 60	
	Compressor	Model	DC Invert-driven Scroll	
		R.L.A.	18	
		L.R.A.	27.5	
	Airflow	CFM	3,530	
	Refrigerant Control		Electronic Expansion Valve	
	Defrost Method		Reverse Cycle	
	Sound Pressure Level (Cooling) *1	dB(A)	52	
	Sound Pressure Level (Heating) *2	dB(A)	53	
	External Finish Color		Munsell No. 3Y 7.8/1.1	
	Dimensions	W: In.	37-3/8	
		D: In.	13 + 1-3/16	
		H: In.	53-1/8	
	Weight	Lbs.	267	
Remote Controller			Located with Indoor Unit	Located with Grille
Refrigerant	Type		R410A	
	Charge	Lbs.	12	
	Oil	Type (fl. oz.)	FV50S (45)	
Refrigerant Pipe	Gas Side O.D.	In.	5/8	
	Liquid Side O.D.	In.	3/8	
Refrigerant Pipe Length	Height Difference (Max.)	Ft.	100	
	Length (Max.)	Ft.	245	
Connection Method			Flared	
Operating Temperature Range	Cooling		23° F D.B. to 115° F D.B. (or 0° F D.B. to 115° F D.B. with Wind Baffle Accessory Installed)	
	Heating		-13° F W.B. to +59° F W.B.	

Specifications are subject to change without notice.

NOTES:

*1 Rating conditions (cooling)-Indoor: D.B. 80º F (27º C), W.B. 67º F (19.4º C); Outdoor: D.B. 95º F (35º C), W.B. 75º F (24º C).

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

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

*4 Rating conditions (heating)-Indoor: D.B. 70º F (21º C), W.B. 60º F (16º C); Outdoor: D.B. 5º F (-15º C), W.B. 5º F (-15º C).

LIMITED WARRANTY | Six-year warranty on compressor. One-year warranty on parts.

PKA (GA/GAL,FA/FAL)

WALL-MOUNTED SERIES

PKA Indoor Unit
(Same indoor unit is used for both cooling and heat pump systems)

12,000 to 34,200 Btu/h Capacity

The PKA-Series fills small, critical, and larger spaces with substantial cooling and heating from a compact, wall-mounted package. Walk into any room where a PKA system is is installed and all you'll notice is the perfectly comfortable climate. What you may not notice is the unit itself, which mounts high on the wall and blends into most spaces. The PKA-Series features an *Auto Changeover* mode that automatically switches back and forth between cooling and heating operation to compensate for indoor and outdoor temperature fluctuations.

Auto Vane Control

With a simple press of the *Off* button, the vane closes to cover the air outlet for a clean presentation when not in use. During operation, the vane can be adjusted with the remote control to the perfect position to direct the airflow horizontally in cooling mode or towards the floor in heating mode, keeping room temperature even and comfortable.

PAR-21MAA Wired Controller

These Mr. Slim systems come with either a wired (GA/FA) or wireless (GAL/FAL) remote controller that puts you in command of your personal comfort.

PKA-L Series Wireless Controller

Easy-clean Filters

Convenient tabs let you remove the washable filters quickly and easily for faster cleaning. You'll also save time and money because you won't need to replace the filters.

Lightweight, Easy-to-Install Indoor Unit

The smallest PKA unit measures about 39″ wide, 13″ tall, and 9″ deep. It weighs just 35 lbs. and is easily installed above windows or doorways. and can typically be installed by just two licensed installers in about a half day. And Mr. Slim PKA-Series models don't require ductwork – just a small three-inch opening in the wall or ceiling – so they can be installed in some of the toughest spaces, even on brick and masonry walls.

Ultimate Comfort Meets Ultimate Convenience

Select from a wall-mounted, hard-wired controller (GA/FA) or a wireless remote controller (GAL/FAL) for ultimate comfort control. The hand-held Mr. Slim LCD wireless remote controller is easier to use than most TV remotes. The set-temperature display is large and easy to read. Using the 24-hour timer, you can get the unit operation to start and stop at specified times and to repeat daily. And the convenient remote provides easy control of the *Fan Speed* as well as the COOL, HEAT, AUTO, and DRY modes from anywhere in the room.

PKA COOLING-ONLY

P-SERIES Specifications

GA/FA = Wired controller
GAL/FAL = Wireless controller
BS = Seacoast Protection

Model Name	Indoor Unit		PKA-A12GA PKA-A12GAL	PKA-A18GA PKA-A18GAL	PKA-A24FA PKA-A24FAL	PKA-A30FA PKA-A30FAL	PKA-A36FA PKA-A36FAL
	Outdoor Unit		PUY-A12NHA PUY-A12NHA-BS	PUY-A18NHA PUY-A18NHA-BS	PUY-A24NHA PUY-A24NHA-BS	PUY-A30NHA PUY-A30NHA-BS	PUY-A36NHA PUY-A36NHA-BS
Cooling *1	Rated Capacity	Btu/h	12,000	18,000	24,000	30,000	34,200
	Capacity Range	Btu/h	6,000-12,000	8,000-18,000	12,000-24,000	12,000-30,000	12,000-34,200
	Total Input	W	1,210	2,240	2,650	4,400	5,030
	Energy Efficiency	SEER	13.8	14.1	13.5	13.0	13.1
	Moisture Removal	Pints/h	1.5	4.8	4.7	8.1	7.1
	Sensible Heat Factor		0.86	0.70	0.78	0.70	0.77
Power Supply	Phase, Cycle, Voltage		1 Phase, 60Hz, 208/230V *2				
	Breaker Size	A	15		25	30	
Voltage	Indoor - Outdoor S1-S2		AC 208/230V				
	Indoor - Outdoor S2-S3		DC24V				
	Indoor - Remote Controller		DC12V : Wired Type (GA/FA)				
	Indoor - Remote Controller		Wireless Type (GAL/FAL)				
Indoor Unit	MCA	A	1				
	Fan Motor	F.L.A.	0.33		0.43		0.52
	Fan Motor Output	W	30		45		70
	Airflow (Lo-M1-M2-Hi) or (Lo-Hi)	DRY (CFM)	320-350-390-425		530-705		780-990
		WET (CFM)	290-315-350-380		480-635		700-890
	Sound Pressure Level (Lo-M1-M2-Hi) or (Lo-Hi)	dB(A)	36-38-41-43		39-45		46-49
	External Finish Color		Munsell No. 0.70Y 8.59/0.97		Munsell No. 3.4Y 7.7/0.8		
	Dimension Unit	W: In.	39		55-1/8		66-1/8
		D: In.	9-1/4				
		H: In.	13-3/8				
	Weight Unit	Lbs.	35		53		62
	Field Drain Pipe Size I.D.	In.	13/16				
Outdoor Unit	MCA	A	13		18	25	
	MOCP	A	15	20	30	40	
	Fan Motor	F.L.A.	0.35		0.75		
	Fan Motor Output	W	40		75		
	Compressor	Model (Type)	DC Inverter-driven Twin Rotary				
		R.L.A	12				
		L.R.A.	14			17.5	
	Airflow	CFM	1,200		1,940		
	Refrigerant Control		Linear Expansion Valve				
	Sound Pressure Level (Cooling) *1	dB(A)	46		48		
	External Finish Color		Munsell No. 3Y 7.8/1.1				
	Dimensions	W: In.	31-1/2		37-3/8		
		D: In.	13 + 7/8		13 + 1-3/16		
		H: In.	23-5/8		37-1/8		
	Weight	Lbs.	90	97	163		
Remote Controller	Type		GA/FA = Wired; GAL/FAL = Wireless (Located with Indoor Unit)				
Refrigerant	Type		R410A				
	Charge	Lbs., Oz.	2, 14	3, 12	6		
	Oil	Type (Fl. Oz.)	MEL56 (20)		MEL56 (28)		
Refrigerant Pipe	Gas Side O.D.	In.	1/2		5/8		
	Liquid Side O.D.		1/4		3/8		
Refrigerant Pipe Length	Height Difference (Max.)	Ft.	100				
	Length (Max.)		100		165		

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.

PKA HEAT PUMP

P-SERIES Specifications

GA/FA = Wired controller
GAL/FAL = Wireless controller
BS = Seacoast Protection

Model Name	Indoor Unit		PKA-A18GA PKA-A18GAL	PKA-A24FA PKA-A24FAL	PKA-A30FA PKA-A30FAL	PKA-A36FA PKA-A36FAL
	Outdoor Unit		PUZ-A18NHA PUZ-A18NHA-BS	PUZ-A24NHA PUZ-A24NHA-BS	PUZ-A30NHA PUZ-A30NHA-BS	PUZ-A36NHA PUZ-A36NHA-BS
Cooling *1	Rated Capacity	Btu/h	18,000	24,000	30,000	34,200
	Capacity Range	Btu/h	8,000-18,000	12,000-24,000	12,000-30,000	12,000-34,200
	Total Input	W	2,240	2,650	4,400	5,030
	Energy Efficiency	SEER	14.1	13.5	13	13.1
	Moisture Removal	Pints/h	4.8	4.7	8.1	7.1
	Sensible Heat Factor		0.70	0.78	0.70	0.77
Heating at 47º F *2	Rated Capacity	Btu/h	19,000	26,000	32,000	37,000
	Capacity Range	Btu/h	8,000-20,000	12,000-28,000	12,000-34,000	12,000-38,000
	Total Input	W	2,130	2,570	3,660	3,610
	HSPF (Region IV)	Btu/h/W	8.3	8.5		8.3
Heating at 17º F *3	Capacity	Btu/h	13,000	16,000	23,000	25,000
	Total Input	W	1,670	2,200	3,050	3,070
Power Supply	Phase, Cycle, Voltage		1 Phase, 60Hz, 208/230V *4			
	Breaker Size	A	15	25	30	
Voltage	Indoor - Outdoor S1-S2		AC 208/230V			
	Indoor - Outdoor S2-S3		DC24V			
	Indoor - Remote Controller		DC12V : Wired Type (GA/FA)			
	Indoor - Remote Controller		Wireless Type (GAL/FAL)			
Indoor Unit	MCA	A	1			
	Fan Motor	F.L.A.	0.33	0.43		0.52
	Fan Motor Output	W	30	45		70
	Airflow (Lo-M1-M2-Hi) or (Lo-Hi)	DRY (CFM)	320-350-390-425	530-705		780-990
		WET (CFM)	290-315-350-380	480-635		700-890
	Sound Pressure Level (Lo-M1-M2-Hi) or (Lo-Hi)	dB(A)	36-38-41-43	39-45		46-49
	External Finish Color		Munsell No. 0.70Y 8.59/0.97	Munsell No. 3.4Y 7.7/0.8		
	Dimension Unit	W: In.	39	55-1/8		66-1/8
		D: In.	9-1/4			
		H: In.	13-3/8			
	Weight Unit	Lbs.	35	53		62
	Field Drain Pipe Size I.D.	In.	13/16			
Outdoor Unit	MCA	A	13	18	25	
	MOCP	A	20	30	40	
	Fan Motor	F.L.A.	0.35	0.75		
	Fan Motor Output	W	40	75		
	Compressor	Model (Type)	DC Inverter-driven Twin Rotary			
		R.L.A.	12			
		L.R.A.	14		17.5	
	Airflow	CFM	1,200	1,940		
	Refrigerant Control		Linear Expansion Valve			
	Defrost Method		Reverse Cycle			
	Sound Pressure Level (Cooling) *1	dB(A)	46	48		
	Sound Pressure Level (Heating) *2		47	50		
	External Finish Color		Munsell No. 3Y 7.8/1.1			
	Dimensions	W: In.	31-1/2	37-3/8		
		D: In.	13 + 7/8	13 + 1-3/16		
		H: In.	23-5/8	37-1/8		
	Weight	Lbs.	99	165		
Remote Controller	Type		GA/FA: Wired Controller; GAL/FAL: Wireless Controller (Located with Indoor Unit)			
Refrigerant	Type		R410A			
	Charge	Lbs., Oz.	3, 12	6		
	Oil	Type (Fl. Oz.)	MEL56 (20)	MEL56 (28)		
Refrigerant Pipe	Gas Side O.D.	In.	1/2	5/8		
	Liquid Side O.D.		1/4	3/8		
Refrigerant Pipe Length	Height Difference (Max.)	Ft.	100			
	Length (Max.)		100	165		
Connection Method	Indoor/Outdoor		Flared/Flared			

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

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

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

*3 Rating conditions (heating)-Indoor: D.B. 70º F (21º C), W.B. 60º F (16º C); Outdoor: D.B. 17º F (-8.3º C), W.B. 15º F (-9º 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.

PLA

CEILING-RECESSED SERIES

PLA Indoor Unit
(Same indoor unit is used for both cooling and heat pump systems)

12,000 to 42,000 Btu/h Capacity

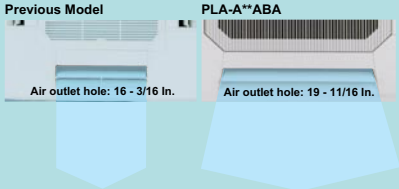
If there's at least a foot of space above your ceiling, the PLA-Series is for you. These models combine powerful cooling and heating in an elegant cassette design that recesses into the ceiling. When installed, the attractive, flush-mounted grille is all you see. With its ventilated air intake capability and four-way discharge airflow, the PLA-Series gives you plenty of comfortable airflow options. There are even branch duct knockouts for either a round or a rectangular duct, allowing for the air conditioning of a smaller adjacent space.

Auto Cooling/heating Changeover

Heat pump systems will automatically switch back and forth between cooling and heating to compensate for temperature fluctuations in a room.

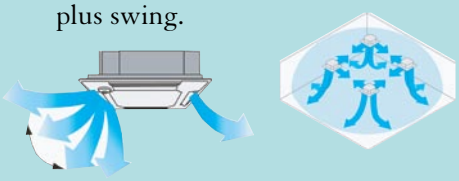
Wider Air Stream

Longer air outlets deliver wider air streams for improved air distribution and energy savings. This feature means quieter air delivery with fewer drafts and great overall cooling and heating coverage.



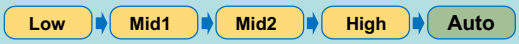
Independent Vane Motor Control

Each of the four vanes can be set by the wired remote controller to operate independently to match the room layout. Specific vane settings include five fixed directions plus swing.



Auto Fan Speed Feature

Choose from four set fan speeds, or auto fan speed, to ensure faster achievement of room temperature. Auto fan speed mode allows the fan to adjust its speed based on the degree of differential between set point and room temperature.



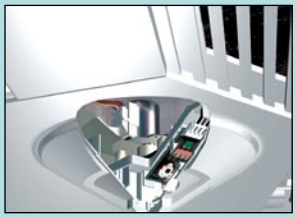
Auto Wave Feature (Heating mode)

In the Heating mode, each air outlet vane operates independently, distributing warm air in multiple directions for the best in room heating.

i-see™ Sensor Accessory

In addition to the return air temperature, the PLA-A**BA four-way ceiling cassette with the field installed i-see sensor measures the floor temperature in real time, observing the room vertically for better management

of sensible temperature (temperature felt by occupant). The i-see sensor measures the infrared rays generated from the surrounding wall and floor surface at an angle of 360°. The infrared ray energy is converted into a temperature value. The i-see sensor rotates 90° slowly – in five-second intervals – for correct measurement of temperature to cover the full floor space. When combined with the auto fan speed mode, air can be directed to the farthest corners of the room for enhanced temperature coverage.



i-see sensor detail

UNIT FEATURES:

- Built-in drain lift mechanism for condensate removal; lifts up to 33-7/16 in. with built-in fail safe sensor
- Easy to install with access to suspension rods through corner pockets
- Easy to maintan, long-life filter which is washable and provides about 2,500 hours of use before cleaning is needed, depending on use

PLA COOLING-ONLY

P-SERIES Specifications

INVERTER

BS = Seacoast Protection

Model Name	Indoor Unit		PLA-A12BA	PLA-A18BA	PLA-A24BA	PLA-A30BA	PLA-A36BA	PLA-A42BA
	Outdoor Unit		PUY-A12NHA PUY-A12NHA-BS	PUY-A18NHA PUY-A18NHA-BS	PUY-A24NHA PUY-A24NHA-BS	PUY-A30NHA PUY-A30NHA-BS	PUY-A36NHA PUY-A36NHA-BS	PUY-A42NHA PUY-A42NHA-BS
Cooling *1	Rated Capacity	Btu/h	12,000	18,000	24,000	30,000	35,000	42,000
	Capacity Range	Btu/h	6,000-12,000	8,000-18,000	12,000-24,000	12,000-30,000	12,000-35,000	18,000-42,000
	Total Input	W	1,260	1,940	2,500	4,100	4,500	4,600
	Energy Efficiency	SEER	13.5	14.2	13.6		14.2	14.4
	Moisture Removal	Pints/h	1.7	3.0	5.1	7.2	8.1	10.9
	Sensible Heat Factor		0.84	0.81	0.76	0.73	0.74	0.71
Power Supply	Phase, Cycle, Voltage		1 Phase, 60Hz, 208/230V *2					
	Breaker Size	A	15		25	30		
Voltage	Indoor - Outdoor S1-S2		AC 208/230V					
	Indoor - Outdoor S2-S3		DC24V					
	Indoor - Remote Controller		DC12V : Wired Type					
Indoor Unit	MCA	A	1				2	
	Fan Motor	F.L.A.	0.51				1.00	
	Fan Motor Output	W	50				120	
	Airflow (Lo-M1-M2-Hi)	DRY (CFM)	390-420-460-530	420-490-570-640		490-570-640-740	710-810-920-1,060	780-880-990-1,090
		WET (CFM)	350-390-420-490	390-460-530-600		460-530-600-710	670-770-880-1,030	740-850-950-1,060
	External Pressure	Pa	0					
	Sound Pressure Level (Lo-M1-M2-Hi)	dB(A)	27-28-29-31	28-29-31-32		28-30-32-34	32-34-37-40	34-36-39-41
	External Finish Color (Panel)		Munsell No. 6.4Y 8.9/0.4					
	Dimension Unit (Panel)	W: In.	33-1/16 (37-3/8)					
		D: In.	33-1/16 (37-3/8)					
		H: In.	10-3/16 (1-3/8)				11-3/4 (1-3/8)	
	Weight Unit (Panel)	Lbs.	49 (13)		51 (13)		55 (13)	
	Field Drain Pipe Size O.D.	In.	1-1/4					
Outdoor Unit	MCA	A	13		18	25		26
	MOCP	A	15	20	30	40		
	Fan Motor	F.L.A.	0.35		0.75			0.4 + 0.4
	Fan Motor Output	W	40		75			86 + 86
	Compressor	Model (Type)	DC Inverter-driven Twin Rotary					Inverter-driven Scroll
		R.L.A.	12					20
		L.R.A.	14			17.5		27.5
	Airflow	CFM	1,200		1,940			3,530
	Refrigerant Control		Linear Expansion Valve					
	Sound Pressure Level (Cooling) *1	dB(A)	46		48			51
	External Finish Color		Munsell No. 3Y 7.8/1.1					
	Dimensions	W: In.	31-1/2		37-3/8			
		D: In.	13 + 7/8		13 + 1-3/16			
		H: In.	23-5/8		37-1/8			53-1/8
	Weight	Lbs.	90	97	163			258
Remote Controller	Type		Wired Remote Controller Packaged with Grille					
Refrigerant	Type		R410A					
	Charge	Lbs., Oz.	2, 14	3, 12	6			10
	Oil	Type (Fl. Oz.)	MEL56 (20)		MEL56 (28)			FV50S (45)
Refrigerant Pipe	Gas Side O.D.	In.	1/2		5/8			
	Liquid Side O.D.		1/4		3/8			
Refrigerant Pipe Length	Height Difference (Max.)	Ft.	100					
	Length (Max.)		100		165			
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.

PLA HEAT PUMP

P-SERIES Specifications

INVERTER

R410A

BS = Seacoast Protection

Model Name	Indoor Unit / Outdoor Unit		PLA-A18BA PUZ-A18NHA PUZ-A18NHA-BS	PLA-A24BA PUZ-A24NHA PUZ-A24NHA-BS	PLA-A30BA PUZ-A30NHA PUZ-A30NHA-BS	PLA-A36BA PUZ-A36NHA PUZ-A36NHA-BS	PLA-A42BA PUZ-A42NHA PUZ-A42NHA-BS
Cooling *1	Rated Capacity	Btu/h	18,000	24,000	30,000	35,000	42,000
	Capacity Range	Btu/h	8,000-18,000	12,000-24,000	12,000-30,000	12,000-35,000	18,000-42,000
	Total Input	W	1,940	2,500	4,100	4,500	4,600
	Energy Efficiency	SEER	14.2	13.6		14.2	14.4
	Moisture Removal	Pints/h	3.0	5.1	7.2	8.1	10.9
	Sensible Heat Factor		0.81	0.76	0.73	0.74	0.71
Heating at 47º F *2	Rated Capacity	Btu/h	19,000	26,000	32,000	37,000	45,000
	Capacity Range	Btu/h	8,000-20,000	12,000-28,000	12,000-34,000	12,000-38,000	18,000-48,000
	Total Input	W	1,900	2,570	3,370	3,300	4,450
	HSPF (Region IV)	Btu/h/W	9.8	8.5	8.7	9.3	
Heating at 17º F *3	Capacity	Btu/h	13,000	16,000	23,000	25,000	30,000
	Total Input	W	1,590	2,200	3,050	3,070	4,300
Power Supply	Phase, Cycle, Voltage		1 Phase, 60Hz, 208/230V *4				
	Breaker Size	A	15	25	30		
Voltage	Indoor - Outdoor S1-S2		AC 208/230V				
	Indoor - Outdoor S2-S3		DC24V				
	Indoor - Remote Controller		DC12V : Wired Type				
Indoor Unit	MCA	A	1			2	
	Fan Motor	F.L.A.	0.51			1.00	
	Fan Motor Output	W	50			120	
	Airflow (Lo-M1-M2-Hi)	DRY (CFM)	420-490-570-640		490-570-640-740	710-810-920-1,060	780-880-990-1,090
		WET (CFM)	390-460-530-600		460-530-600-710	670-770-880-1,030	740-850-950-1,060
	External Pressure	Pa	0				
	Sound Pressure Level (Lo-M1-M2-Hi)	dB(A)	28-29-31-32		28-30-32-34	32-34-37-40	34-36-39-41
	External Finish Color (Panel)		Munsell No. 6.4Y 8.9/0.4				
	Dimension Unit (Panel)	W: In.	33-1/16 (37-3/8)				
		D: In.	33-1/16 (37-3/8)				
		H: In.	10-3/16 (1-3/8)			11-3/4 (1-3/8)	
	Weight Unit (Panel)	Lbs.	49 (13)	51 (13)		55 (13)	
	Field Drain Pipe Size O.D.	In.	1-1/4				
Outdoor Unit	MCA	A	13	18	25		26
	MOCP	A	15	30	40		
	Fan Motor	F.L.A.	0.35	0.75			0.4 + 0.4
	Fan Motor Output	W	40	75			86 + 86
	Compressor	Model (Type)	DC Inverter-driven Twin Rotary				Inverter-driven Scroll
		R.L.A	12				20
		L.R.A.	14		17.5		27.5
	Airflow	CFM	1,200	1,940			3,530
	Refrigerant Control		Linear Expansion Valve				
	Defrost Method		Reverse Cycle				
	Sound Pressure Level (Cooling) *1	dB(A)	46	48			51
	Sound Pressure Level (Heating) *2	dB(A)	47	50			55
	External Finish Color		Munsell No. 3Y 7.8/1.1				
	Dimensions	W: In.	31-1/2	37-3/8			
		D: In.	13 + 7/8	13 + 1-3/16			
		H: In.	23-5/8	37-1/8			53-1/8
	Weight	Lbs.	99	165			260
Remote Controller	Type		Wired Remote Controller Packaged with Grille				
Refrigerant	Type		R410A				
	Charge	Lbs., Oz.	3, 12	6			10
	Oil	Type (Fl. Oz.)	MEL56 (20)	MEL56 (28)			FV50S (45)
Refrigerant Pipe	Gas Side O.D.	In.	1/2	5/8			
	Liquid Side O.D.		1/4	3/8			
Refrigerant Pipe Length	Height Difference (Max.)	Ft.	100				
	Length (Max.)		100	165			
Connection Method	Indoor/Outdoor		Flared/Flared				

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

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

*2 Rating conditions (heating)-Indoor: D.B. 70º F (21º C), W.B. 60º F (16º C); Outdoor: D.B. 47º F (8º C), W.B. 43º F (6.1º C).

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

PCA

CEILING-SUSPENDED SERIES

PCA Indoor Unit
(Same indoor unit is used for both cooling and heat pump systems)

24,000 to 42,000 Btu/h Capacity

Powerful cooling and heating performance is what the PCA-Series is all about. This ceiling-suspended unit delivers enough cold or hot air to make any space more comfortable. Manually-adjusted over-sized swing louvers direct the airflow left or right, quietly covering the entire space. Accessory filters are available to increase efficiency and increase the time span between service calls. The PCA-Series is perfect for restaurants, kitchens, and other larger commercial spaces where ovens and other equipment add to an already taxed cooling or heating load.

Control Airflow Angle for Better Coverage

With the wired remote controller, four different airflow positions can be set. When using the *Autovane* during cooling, the angle self-adjusts into a horizontal position to circulate cold air more effectively. During heating, the vane forces the hot air downward toward the floor, where it will rise and circulate, keeping your room comfortable from top to bottom.

Warm Air with No Drafts

Mr. Slim P-Series heat pumps use our *hot-start technology* to provide warmth from the beginning – without drafts.

All Mr. Slim PCA-Series models come with a wired remote controller that puts you in command of your personal comfort. The wireless controller is available in an accessory kit.

Bring Outside Air In

Ducting can be installed with minimal on-site work to bring in outside air, creating a healthier indoor environment.

Automatic Cooling/heating Changeover (Heat Pumps)

When set to *Auto* mode, heat pump systems will automatically switch back and forth between cooling and heating operation to compensate for indoor and outdoor temperature fluctuations. This feature means total hands-free comfort and efficient air conditioning of your space.

PCA COOLING-ONLY

P-SERIES Specifications

INVERTER R410A

BS = Seacoast Protection

Model Name	Indoor Unit / Outdoor Unit		PCA-A24GA PUY-A24NHA PUY-A24NHA-BS	PCA-A30GA PUY-A30NHA PUY-A30NHA-BS	PCA-A36GA PUY-A36NHA PUY-A36NHA-BS	PCA-A42GA PUY-A42NHA PUY-A42NHA-BS
Cooling *1	Rated Capacity	Btu/h	24,000	30,000	35,000	42,000
	Capacity Range	Btu/h	12,000-24,000	12,000-30,000	12,000-35,000	18,000-42,000
	Total Input	W	2,500	4,100	4,630	5,070
	Energy Efficiency	SEER	13.4	13.0	13.1	13.8
	Moisture Removal	Pints/h	5.4	8.3	8.2	11.7
	Sensible Heat Factor		0.75	0.69	0.74	0.69
Power Supply	Phase, Cycle, Voltage		1 Phase, 60Hz, 208/230V *2			
	Breaker Size	A	25	30		
Voltage	Indoor - Outdoor S1-S2		AC 208/230V			
	Indoor - Outdoor S2-S3		DC24V			
	Indoor - Remote Controller		DC12V : Wired Type			
Indoor Unit	MCA	A	1			
	Fan Motor	F.L.A.	0.53		0.69	
	Fan Motor Output	W	70		90	
	Airflow (Lo-M1-M2-Hi)	DRY (CFM)	495-530-565-635		705-740-810-880	
		WET (CFM)	445-480-510-570		635-670-730-790	
	Sound Pressure Level (Lo-M1-M2-Hi)	dB(A)	37-39-41-43		40-41-43-45	
	External Finish Color		Munsell No. 0.70Y 8.59/0.97			
	Dimension Unit	W: In.	51-9/16			
		D: In.	26-3/4			
		H: In.	8-5/16		10-5/8	
	Weight Unit	Lbs.	75		82	
	Field Drain Pipe Size O.D.	In.	1			
Outdoor Unit	MCA	A	18	25		26
	MOCP	A	30	40		
	Fan Motor	F.L.A.	0.75			0.4 + 0.4
	Fan Motor Output	W	75			86 + 86
	Compressor	Model (Type)	DC Inverter-driven Twin Rotary			Inverter-driven Scroll
		R.L.A.	12			20
		L.R.A.	14	17.5		27.5
	Airflow	CFM	1,940			3,530
	Refrigerant Control		Linear Expansion Valve			
	Sound Pressure Level (Cooling) *1	dB(A)	48			51
	External Finish Color		Munsell No. 3Y 7.8/1.1			
	Dimensions	W: In.	37-3/8			
		D: In.	13 + 1-3/16			
		H: In.	37-1/8			53-1/8
	Weight	Lbs.	163			258
Remote Controller	Type		Wired Remote Controller (Located with Indoor Unit)			
Refrigerant	Type		R410A			
	Charge	Lbs.	6			10
	Oil	Type (Fl. Oz.)	MEL56 (28)			FV50S (45)
Refrigerant Pipe	Gas Side O.D.	In.	5/8			
	Liquid Side O.D.		3/8			
Refrigerant Pipe Length	Height Difference (Max.)	Ft.	100			
	Length (Max.)		165			
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.

PCA HEAT PUMP

P-SERIES Specifications

BS = Seacoast Protection

Model Name	Indoor Unit		PCA-A24GA	PCA-A30GA	PCA-A36GA	PCA-A42GA
	Outdoor Unit		PUZ-A24NHA PUZ-A24NHA-BS	PUZ-A30NHA PUZ-A30NHA-BS	PUZ-A36NHA PUZ-A36NHA-BS	PUZ-A42NHA PUZ-A42NHA-BS
Cooling *1	Rated Capacity	Btu/h	24,000	30,000	35,000	42,000
	Capacity Range	Btu/h	12,000-24,000	12,000-30,000	12,000-35,000	18,000-42,000
	Total Input	W	2,500	4,100	4,630	5,070
	Energy Efficiency	SEER	13.4	13	13.1	13.8
	Moisture Removal	Pints/h	5.4	8.3	8.2	11.7
	Sensible Heat Factor		0.75	0.69	0.74	0.69
Heating at 47° F *2	Rated Capacity	Btu/h	26,000	32,000	37,000	45,000
	Capacity Range	Btu/h	12,000-28,000	12,000-34,000	12,000-38,000	18,000-48,000
	Total Input	W	2,570	3,390	3,490	4,850
	HSPF (Region IV)	Btu/h/W	8.5	8.5	8.3	8.5
Heating at 17° F *3	Capacity	Btu/h	16,000	23,000	25,000	30,000
	Total Input	W	2,200	3,050	3,070	4,300
Power Supply	Phase, Cycle, Voltage		1 Phase, 60Hz, 208/230V *4			
	Breaker Size	A	25	30		
Voltage	Indoor - Outdoor S1-S2		AC 208/230V			
	Indoor - Outdoor S2-S3		DC24V			
	Indoor - Remote Controller		DC12V : Wired Type			
Indoor Unit	MCA	A	1			
	Fan Motor	F.L.A.	0.53		0.69	
	Fan Motor Output	W	70		90	
	Airflow (Lo-M1-M2-Hi)	DRY (CFM)	495-530-565-635		705-740-810-880	
		WET (CFM)	445-480-510-570		635-670-730-790	
	Sound Level (Lo-M1-M2-Hi)	dB(A)	37-39-41-43		40-41-43-45	
	External Finish Color		Munsell No. 0.70Y 8.59/0.97			
	Dimension Unit	W: In.	51-9/16			
		D: In.	26-3/4			
		H: In.	8-5/16		10-5/8	
	Weight Unit	Lbs.	75		82	
	Field Drain Pipe Size O.D.	In.	1			
Outdoor Unit	MCA	A	18	25		26
	MOCP	A	30	40		
	Fan Motor	F.L.A.	0.75			0.4 + 0.4
	Fan Motor Output	W	75			86 + 86
	Compressor	Model (Type)	DC Inverter-driven Twin Rotary			Inverter-driven Scroll
		R.L.A.	12			20
		L.R.A.	14	17.5		27.5
	Airflow	CFM	1,940			3,530
	Refrigerant Control		Linear Expansion Valve			
	Defrost Method		Reverse Cycle			
	Sound Level at Cooling *1	dB(A)	48			51
	Sound Level at Heating *2	dB(A)	50			55
	External Finish Color		Munsell No. 3Y 7.8/1.1			
	Dimensions	W: In.	37-3/8			
		D: In.	13 + 1-3/16			
		H: In.	37-1/8			53-1/8
	Weight	Lbs.	165			260
Remote Controller	Type		Wired Remote Controller (Located with Indoor Unit)			
Refrigerant	Type		R410A			
	Charge	Lbs.	6			10
	Oil	Type (Fl. Oz.)	MEL56 (28)			FV50S (45)
Refrigerant Pipe	Gas Side O.D.	In.	5/8			
	Liquid Side O.D.		3/8			
Refrigerant Pipe Length	Height Difference (Max.)	Ft.	100			
	Length (Max.)		165			
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 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.

GENERAL SPECIFICATIONS

MS/MU/MSY/MUY/MUZ/MSZ/MXZ RATING CONDITIONS

		INDOOR INTAKE AIR TEMPERATURE	OUTDOOR INTAKE AIR TEMPERATURE
COOLING	MAXIMUM	95º F D.B. , 71º F W.B. (MS/MSY/MSZ) / 75º F W.B. (MXZ)	115º F D.B.
	MINIMUM	67º F D.B., 57º F W.B.	67º F D.B. (MS) / 14º F D.B. (MSY/MSZ/MXZ)
HEATING	MAXIMUM	80º F D.B., 67º F W.B.	75º F D.B., 65º F W.B.
	MINIMUM	70º F D.B., 60º F W.B.	14º F D.B.; 13º F W.B. (MSY/MSZ) / 12º F W.B. (MXZ)

* MS units operate at intake air temperature down to 10º F with the addition of an ICM-326HM-1 low temperature control.

GENERAL SPECIFICATIONS

PKA/PCA/PLA/PUY-PUZ-A RATING CONDITIONS

		INDOOR INTAKE AIR TEMPERATURE	OUTDOOR INTAKE AIR TEMPERATURE
COOLING	MAXIMUM	95º F D.B., 71º F W.B.	115º F D.B.
	MINIMUM	67º F D.B., 57º F W.B.	0º F D.B.*
HEATING	MAXIMUM	80º F D.B., 67º F W.B.	70º F D.B., 59º F W.B.
	MINIMUM	70º F D.B., 60º F W.B.	12º F D.B., 10º F W.B.

* With wind baffle installed. Without wind baffle installed, the minimum temperature will be 23º F D.B.

OPTIONAL ACCESSORIES

PART NUMBER	USE WITH	DESCRIPTION
		Control Options
MAC-397IF-E	M-Series Inverter Units	MA and contact terminal interface
MAC-399IF-E	M-Series Inverter Units	M-NET control adapter for Mr. Slim MSY and MSZ models
MAC-821SC-E	M-Series Inverter Units	Centralized on/off remote controller for up to 8 units (Requires MAC-397IF-E: 1 per unit)
PAC-725AD	P-Series	Connector for CN51/multiple remote controller adapter and duct fan controller
PAC-715AD	P-Series	Connector for CN32 (For remote on/off)
PAC-SE41TS-E	P-Series	Remote temperature sensor for indoor units
PAC-SA1ME-E	PLA-A**ABA	i-see Sensor corner panel for PLA-ABA indoor units
PAC-SF40RM-E	P-Series	Remote operation adapter: display and on/off
PAC-SF80MA-E	P-Series	M-NET control adapter for Mr. Slim PUY-A, PUZ-A, and PUZ-HA Models
PAC-SK52ST	P-Series	Control / service tool
PAR-21MAA-G	Use for wired M-Series Controller	Deluxe MA remote controller (Requires MAC-397IF-E)
PAR-SL99B-E	PCA	Wireless remote controller kit for PCA suspended units
PAR-FL32MA	PLA-ABA	Wireless remote controller for PLA-ABA units (Requires signal receiver PAR-SA9FA-E)
PAR-SA9FA-E	PLA-ABA	Wireless signal receiver for PLA-ABA units (For PAR-FL32MA controller)
PZ-41SLB-E	Lossnay	Lossnay ERV remote controller for LGH ERV control
		Low Ambient
WB-PA1	P-Series	Wind baffle (1 piece) PUY/Z-A12/A18
WB-PA2	P-Series	Wind baffle (1 piece) PUY/Z-A24/A30/A36/A42 (42 installation requires 2 pieces); PUZ-HA36NA (Requires 2 pieces)
ICM-326HM-1	M-Series Non-Inverter units	Low ambient head pressure controller
		Filters
MAC-2300FT	M-Series Indoor Unit - A24	Anti-allergen enzyme filter
MAC-415FT-E	M-Series Indoor Unit - A09/A12/A15/A17	Anti-allergen enzyme filter
PAC-SE81KF-E	PCA Indoor Units	High-efficiency filter element
PAC-SH59KF-E	All PLA-ABA Models	High-efficiency (MERV 10) filter element (Requires PAC-SH53TM-E multi-function casement)
		Pumps
SI1730-230	P-Series	Mini-condensation pump: 230V
SI3100-115	MS-Series	Mini-condensation pump: 115V
SI3100-230	MSY/Z-Series	Mini-condensation pump: 230V
		Miscellaneous
TAZ-MS303	M-Series and P-Series	3-pole disconnect switch; 30A, 600V; turns off power between indoor and outdoor units
CWMB1	MU and PU outdoor units	Condensing unit wall mounting brackets: painted steel
PAC-SH53TM-E	All PLA-ABA Models	Multi-function casement (High-efficiency filter element not included)
PAC-SH51SP-E	All PLA-ABA Models	Air outlet shutter plates (1 set = 2 pieces)
PAC-SG58SG-E	P-Series	Air outlet guide (1 piece) PUY/Z-A12/A18
PAC-SG59SG-E	P-Series	Air outlet guide (1 piece) PUY/Z-A24/A30/A36/A42 (42 installation requires 2 pieces); PUZ-HA36NA (Requires 2 pieces)
PAC-SG61DS-E	P-Series	Drain socket
PAC-SG63DP-E	PUZ(Y)-A12/18	Drain pan
PAC-SG64DP-E	PUZ(Y)-A24/30/36/42 and PUZ-HA36	Drain pan
RCMKP1CB	M and P Series Wireless	Lockdown bracket for remote controller
ULTRILITE1	All M-Series and PUZ(Y)-A12/18	Condensing unit mounting pad: 16" x 36" x 3"
ULTRILITE2	PUZ(Y)-A24/30/36/42	Condensing unit mounting pad: 24" x 42" x 3"
		Port Adapters & Piping Accessories
MAC-A454JP-E	MXZ-Series	Adapter: 3/8" x 1/2"
MAC-A455JP-E	MXZ-Series	Adapter: 1/2" x 3/8"
MAC-A456JP-E	MXZ-Series	Adapter: 1/2" x 5/8"
PAC-SG76RJ-E	MXZ-Series	Adapter: 3/8" x 5/8"
MSDD-50SR-E	P-Series	Distribution pipe
PAC-SC84PI-E	PKA-Series (A24/30/36/42)	L-connector pipe (for left side piping)

LIMITED WARRANTY | Six-year warranty on compressor. One-year warranty on parts.
Pricing and specifications are subject to change without notice. Please consult your area sales manager or Mitsubishi Electric at 678-376-2900 for pricing and availability.

GENERAL SPECIFICATIONS

PKA/PLA/PUZ-HA RATING CONDITIONS

		INDOOR INTAKE AIR TEMPERATURE	OUTDOOR INTAKE AIR TEMPERATURE
COOLING	MAXIMUM	90º F D.B., 73º F W.B.	115º F D.B.
	MINIMUM	66º F D.B., 59º F W.B.	0º F D.B.*
HEATING	MAXIMUM	83º F D.B.	70º F D.B., 59º F W.B.
	MINIMUM	63º F D.B.	-13º F D.B., -13º F W.B.

* With wind baffle installed. Without wind baffle installed, the minimum temperature will be 23º F D.B.

GENERAL SPECIFICATIONS

REFRIGERANT LINE LENGTH FLARE/FLARE

Indoor Unit	Outdoor Unit	Length in feet	Height in feet
MS-A09WA	MU-A09WA	65	35
MS-A12WA	MU-A12WA	65	35
MSY-A15NA	MUY-A15NA	65	40
MSY-A17NA	MUY-A17NA	65	40
MSY-A24NA	MUY-A24NA	100	50
MSZ-A09NA	MUZ-A09NA	65	40
MSZ-A12NA	MUZ-A12NA	65	40
MSZ-A15NA	MUZ-A15NA	65	40
MSZ-A17NA	MUZ-A17NA	65	40
MSZ-A24NA	MUZ-A24NA	100	50
MSZ-A09NA, MSZ-A12NA, MSZ-A15NA	MXZ-2A20NA	164	49*/33
MSZ-A09NA, MSZ-A12NA, MSZ-A15NA, MSZ-A17NA, MSZ-A24NA	MXZ-3A30NA	230	49*/33
MSZ-A09NA, MSZ-A12NA, MSZ-A15NA, MSZ-A17NA, MSZ-A24NA	MXZ-4A36NA	230	49*/33
PKA-A12GA (L)	PUY-A12NHA	100	100
PKA-A18GA (L)	PUY-A18NHA, PUZ-A18NHA	100	100
PKA-A24FA (L)	PUY-A24NHA, PUZ-A24NHA	165	100
PKA-A30FA (L)	PUY-A30NHA, PUZ-A30NHA	165	100
PKA-A36FA (L)	PUY-A36NHA, PUZ-A36NHA	165	100
PKA-A36FA (L)	PUZ-HA36NHA	265	100
PLA-A12BA	PUY-A12NHA	100	100
PLA-A18BA	PUY-A18NHA, PUZ-A18NHA	100	100
PLA-A24BA	PUY-A24NHA, PUZ-A24NHA	165	100
PLA-A30BA	PUY-A30NHA, PUZ-A30NHA	165	100
PLA-A36BA	PUY-A36NHA, PUZ-A36NHA	165	100
PLA-A36BA	PUZ-HA36NHA	265	100
PLA-A42BA	PUY-A42NHA, PUZ-A42NHA	165	100
PCA-A24GA	PUY-A24NHA, PUZ-A24NHA	165	100
PCA-A30GA	PUY-A30NHA, PUZ-A30NHA	165	100
PCA-A36GA	PUY-A36NHA, PUZ-A36NHA	165	100
PCA-A42GA	PUY-A42NHA, PUZ-A42NHA	165	100

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

REFRIGERANT TUBING SETS

Lineset Model Number	Tube Size (In.)	Length Ft.	Insul.	Use With Mitsubishi Electric Models
MLS143838-5	1/4 x 3/8	5	3/8"	Mr. Slim MS-A09WA, MSZ-A09NA, MSZ-A12NA
MLS143838-6	1/4 x 3/8	6	3/8"	
MLS143838-10	1/4 x 3/8	10	3/8"	
MLS143838-15	1/4 x 3/8	15	3/8"	
MLS143838-30	1/4 x 3/8	30	3/8"	
MLS143838-50	1/4 x 3/8	50	3/8"	
MLS143838-65	1/4 x 3/8	65	3/8"	
MLS141238-15	1/4 x 1/2	15	3/8"	Mr. Slim MS-A12WA, MSY-A15NA, MSY-A17NA, MSZ-A15NA, MSZ-A17NA, PKA-A12GA(L), PKA-A18GA(L), PLA-A12BA, PLA-A18BA
MLS141238-30	1/4 x 1/2	30	3/8"	
MLS141238-50	1/4 x 1/2	50	3/8"	
MLS141238-65	1/4 x 1/2	65	3/8"	
MLS141238-100	1/4 x 1/2	100	3/8"	
MLS145838-15	1/4 x 5/8	15	3/8"	Mr. Slim MSY-A24NA, MSZ-A24NA
MLS145838-30	1/4 x 5/8	30	3/8"	
MLS145838-50	1/4 x 5/8	50	3/8"	
MLS145838-65	1/4 x 5/8	65	3/8"	
MLS145838-100	1/4 x 5/8	100	3/8"	
MPLS385838-10	3/8 x 5/8	10	3/8"	Mr. Slim PKA-A24FA(L), PKA-A30FA(L), PKA-A36FA(L), PLA-A24BA, PLA-A30BA, PLA-A36BA, PLA-A42BA, PCA-A24GA, PCA-A30GA, PCA-A36GA, PCA-A42GA
MPLS385838-15	3/8 x 5/8	15	3/8"	
MPLS385838-30	3/8 x 5/8	30	3/8"	
MPLS385838-50	3/8 x 5/8	50	3/8"	
MPLS385838-65	3/8 x 5/8	65	3/8"	
MPLS385838-100	3/8 x 5/8	100	3/8"	

LINE-HIDE™ LINESET COVER SYSTEM

- Available in four sizes - 2-1/4", 3", 4" and 6" tubes
- Snap-on covers and a full selection of couplings, elbows, T-joints, caps, and more for any application, complex or simple
- High-quality PVC with UV inhibitors for outdoor service in all weather conditions

Mr. SLIM®

Split-ductless A/C and Heat Pumps

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ARI Standard 210/240

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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*Hyper-heating technology Patent Pending.

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

Form No. MBROGEN-04-08-20M PD

For more information visit www.mrslim.com