

M - Series Product Catalogue -



Variable Compressor Speed Ductless Split Systems

Featuring:

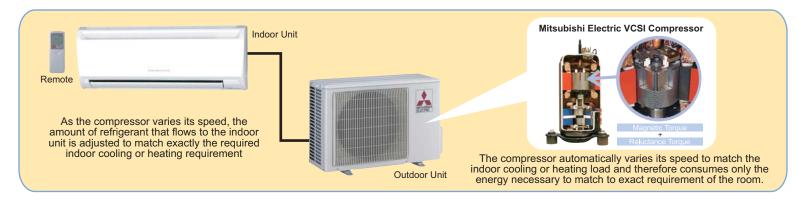
- A Ozone Friendly R-410A Refrigerant
- A Variable Compressor Speed Technology
- AIAQ Catechin Plus Air Purifying System
- 13 to 17 SEER with Up To 30% Energy Savings
- A No Starting Inrush Current
- ▲ Super Silent Operation
- 🙏 Longer Pipe Runs
- Low Ambient Temperature Cooling Operation



The Next Generation of Air Conditioner is here today. — Mitsubishi Electric's Variable Compressor Speed Systems

Introducing Mitsubishi Electric's Variable Compressor Speed (Inverter) Technology

Variable Compressor Speed Inverter (VCSI) Technology is the key to more comfort throughout the year, whichever the season. Our VCSI technology adjusts the air-conditioning capacity in response to conditions such as the difference between the outside and inside air temperatures, allowing our products to run more efficiently and reduce energy cost. By controlling compressor rotation speed more precisely, VCSI technology provides high-speed cooling and heating with extra energy savings compared to conventional models.



The use of VCSI technology saves energy in two main ways:

1. The compressor varies its speed to match the cooling or heating load and therefore consumes only the power necessary to match the exact requirement of the room. Furthermore, no inrush current is generated due to the VCSI soft start control. Inrush current increases energy usage and can also adversely affect other appliances. We have all noticed how the lights dim when our conventional air conditioners start up due to compressor inrush current.

2. When a VCSI driven air conditioner is operating at partial load, the energy efficiency of the system is significantly higher than at full load. In a typical application, partial load conditions prevail for more than 90% of operational time. A fixed speed system can only operate at 100% capacity and cannot match the annual efficiencies of a VCSI system.

Benefits of VCSI systems over conventional systems:

VCSI Systems	Conventional Systems
VCSI compressor speeds up and slows down to maintain the conditioned space temperature.	Conventional compressor turns on and off to maintain the temperature. A compressor draws more amps at start up than any other time.
Energy consumed by a VCSI compressor is directly related to the required amount of cooling or heating. (Capacity changes as needed.)	Conventional compressor consumes maximum amount of energy to produce maximum amount of cooling or heating at all times. (Capacity does not change.)
VCSI compressor helps system reach it's set point quicker by running at a higher RPM for a shorter period of time, then ramps down to maintain temperature.	Conventional compressor runs at same RPM for longer period of time, then switches on and off to maintain temperature.
Indoor temperature swing is minimized with the VCSI system because the indoor coil activates longer. As temperature changes slightly, compressor speed also adjusts slightly to compensate.	Conventional system kicks back on at full speed to compensate for small changes in temperature.

All the benefits of using a VCSI system boils down to one very important fact: You only consume as much energy as needed at any given time. If you do not need the full capacity of the system, you do not need to pay for the full capacity of the system.



High standards of comfort and efficiency, our air-conditioners are quiet and easy to use.

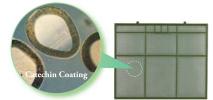


Catechin Plus Air Purifying Systems consist of Catechin Pre-filters and Anti-allergy Blue Enzyme Filters, which deodorize, inactivate allergen, eliminate bacteria and achieve antiviral effects.



Catechin Plus Pre-filter

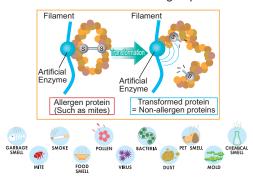
Catechin is a bioflavonoid that is found in green tea, which is well know for its deodorizing, anti-bacterial and anti-virus properties. With Mitsubishi Electric's innovative technology, Catechin has been infused deeply into every molecule of the pre-filter. They are washable and have a long lasting effectiveness for the lifetime of your system.





Anti-allergy Blue Enzyme Filter

The Anti-Allergy Enzyme Filter traps dust, pollens, mites, and other particles which can cause allergic reactions. The artificial enzyme catalyst helps breaking down the S-S bonds in these allergen proteins which transforms them into non-allergen proteins.





Econo Cool

This intelligent temperature control feature adjusts airflow direction depending on air outlet temperature. It allows set temperature to be raised by 2 degrees without any loss in comfort for a 20% gain in energy efficiency.

Ensures greater comfort even when the temperature setting is 2 degrees above conventional settings.

	Conventional cooling	"Econo Cool" ON	
Ambient temperature	35 C	35 C	
Set temperature	25 C	27 °C	
Body sensing temperature	30 C	29.5 C	
"Econo Cool" ON		cooling mode	

PAM Control PAM Control

Pulse Amplitude Modulation (PAM) is a method for controlling the form of the current wave so that it conforms to the supply voltage wave. With PAM control, 98% of input power supply is effectively used.

LCD Wireless Remote

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. The convenient remote provides easy control of the Fan Speed, as well as the Cool, Heat, and Dry modes from anywhere in the room.





Ever needed to chill off at Christmas parties or Thanksgiving reunions with those hugs and kisses? Conventinal models cannot operate in cooling mode when the outdoor temperature is below 67F. With Mr. Slim's intelligent fan speed control, the system performs well in cooling mode even when outdoor temperature is down to 14F!



Fuzzy Logic "I Feel"

Is the room too hot or cold, too dry or too humid? On auto mode selection, the fuzzy logic control system adjusts conditions to suit you. Simply tapping the "Too Cool" or "Too Warm" button on the remote controller, the optimum temperature is set and memorized for immediate recall whenever the air-conditinoer is used again.



Quieter than whisper - Mitsubishi Electric's advanced technology has lead to the creation of super-quiet air-conditioners suitable for all rooms in your home and work environment.

▼21dB(MSZ-A09NA	.)		
25dB Sound recording room	30dB Empty concert hall	35dB Whisper	40dB Quiet photo studio

Powerful Cool

The automatic, one-touch Powerful Cool system ensures faster cooling. It produces 10% more airflow than the "high fan" speed, cooling the room in less than 15 minutes, then automatically returning to the regular setting.



Auto Change Over

With the Auto Change Over function, the system will autoatically switch back and forth from cooling to heating to compensate for the drastic rising and falling temperature in a room. This feature means total hands-free comfort and efficient conditioning of your space.



New LEV Control

LEV (Linear Expansion Valve) control automatically adjusts the volume of refrigerant flow through the indoor coil according to air conditioning



load. When the load is low, Needle A drops, restricting the flow path and decreasing the volume of refrigerant, and vice versa. In this simple yet effective concept, circulation of refrigerant is optimized to facilitate more economical operation.

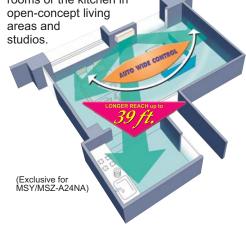
Extra Features guarantee ease of use. User Friendly, Durability and Reliability...



Wide & Long Air-flow

Just using remote controller, you can easily adjust Left and Right airflow directions. When you combine this control with 5-step Vane and Long control, you can maximize the airflow up to 42 patterns.

The airflow can be extended as far as 39 ft. to reach the far end of long living rooms or the kitchen in



Auto Mode

Comfort can now be easily enjoyed with Auto Mode. "Auto Vane" is created to set the vane angle automatically and "Auto Fan" is created to adjust airflow speed automatically. These could let ideal temperature to be achieved in teh shortest amount of time.



5-step Vane Control & Swing Mode

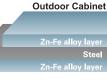
The intellegent air direction control can be adjusted by the touch of a button from the comfort of your chair. Using the remote controller, you can select from five airflow settings to match room layout and the location of people. Also, you can set the vane to swing automatically.



This function allows automatic return to previous operation conditions after a sudden power black-out. You can now sleep peacefuly all through the night without having to get up and turn your air-conditinoer back on.



All heat pump models outdoor cabinets have been treatred with special anti-rust painting.





Self-diagnostic Function

In the unlikely event of malfuction, the LED on the indoor unit flashes to indicate the exact spot to be checked. This will speed up the time to get your unit functional again, saving time and money.

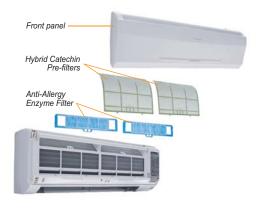


24-Hour ON/OFF Timer

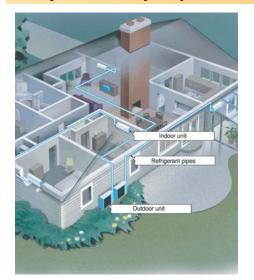
Using the 24-hour timer, operation can be set to start and stop at specified times and to repeat daily.



The easily detachable front panel is simple to remove without any special tools for quick cleaning of the inside of the air-conditioner. Just simply lift up the panel and remove from it the hinge. It is recommended that the air conditioner be cleaned regularly to increase both operating efficiency and energy savings.



Your first choice of easy installation, superior quality and after sales service



Mitsubishi Electric is the pioneer of quality ductless split air-conditioners and heat pumps. For this reason, our products are often imitated but never equaled. Ductless air-conditioning units make it easy to air-condition homes that do not have central duct work. The term ductless simply means no duct work involved. Our indoor and outdoor units are easily connected by refrigerant lines running through a small 10 cm (4 in.) opening in the wall or ceiling. Installation is as simple as mounting the indoor and outdoor units, connecting the refrigerant lines, and making a few electrical connections.

This makes our ductless systems the ideal solution for cooling your home, cottage, or condo. Their whisper quiet operation and stylish compact design make them the first choice for bedrooms, studies, living rooms and kitchens. Our ductless systems are available in five sizes: 9000, 12000, 15000, 17000 and 24000 Btu/h, offering the widest selection in the industry. Our competent distributor network, strong servivce support and unmatched parts availability will give you the peace of mind that you deserve.

Make a Mitsubishi Electric Variable Compressor Speed ductless split system your first choice for your residential or light commercial application and enjoy the comfort and true quality that only Mitsubishi Electric can offer.

Product Line-up & Specification

Single Ductless Split Systems - Cooling Only MS-A09/12WA MSY-A24NA MSY-A15/17NA MS-A09WA MS-A12WA MSY-A15NA MSY-A17NA MSY-A24NA Mode Capacity - Cooling Btu/h 15000 9500 12000 16200 22000 SEER 13.0 13.0 16.0 16.0 16.0 EER 10.9 11.2 7.6 8.9 7.8 Capacity Control Fixed Compressor Variable Compressor Speed R-410A Refrigerant 208-230, 1, 60 Power Supply V, Phase, Hz 115, 1, 60 335 CFM 381 568 Air Flow (Hi) 406 381 Max. Fuse Indoor 15 15 15 15 15 Α Outdoor 15 20 15 15 20 А

33/45

96

65

35

34/45

23

88

1/4 x 1/2

65

40

21-5/8 x 31-1/2 x 11-1/4

11-3/4 x 30-11/16 x 8-1/4

34/46

23

88

65

40

34/49

12-13/16 x 43-5/16 x 10-1/4

33-7/16 x 33-1/16 x 13

128

1/4 x 5/8

100

50

- Catechin Plus Air Purifying System
- Variable Compressor Speed Inverter Technology
- Ozone Friendly R-410A Refrigerant
- Significant Energy Savings (up to 30%)
- Fuzzy Logic "I Feel" Mode for Comfort Cooling
- Super Quiet Technology Only 21dB
- Wide & Long Airflow Up To 100° (MSY-A24NA)
- Long Pipe Runs Up To 100Ft. (MSY-A24NA)
- Refrigerant Pre-charged
- Easy Installation No Ductwork Needed
- 1 Year Parts Warranty
- 6-Year Compressor Warranty



- Catechin Plus Air Purifying System

dB (A)

Outdoor lbs.

Liq. x Gas in.

Ft.

Ft.

in.

lbs.

Indoor

Outdoor

Indoor

- Variable Compressor Speed Inverter Technology

26/40

78

1/4 x 3/8

65

35

in. 21-5/8 x 31-1/2 x 11-1/4 23-7/8 x 33-1/2 x 11-1/2

- Ozone Friendly R-410A Refrigerant
- Significant Energy Savings (up to 30%)
- Auto Change Over between Cooling & Heating
- Super Quiet Technology Only 21dB
- High-speed Cooling and Heating
- Wide & Long Airflow Up To 150° (MSZ-A24NA)
- Long Pipe Runs Up To 100Ft. (MSZ-A24NA)
- Refrigerant Pre-charged
- Easy Installation No Ductwork Needed
- 1 Year Parts Warranty

Sound (Low/Hi)

Max. Pipe Length

Max. Height Diff.

Dimension

Weight

Pipe Size

6-Year Compressor Warranty





Single Ductless Split Systems - Heat Pump

Model		MSZ-A09NA	MSZ-A12NA	MSZ-A15NA	MSZ-A17NA	MSZ-A24NA
Capacity - Cooling	Btu/h	9000	12000	15000	16200	22000
Capacity - Heating	Btu/h	10900	13600	18000	20100	23200
SEER		17.0	17.0	16.0	16.0	16.0
EER		13.0	10.3	8.9	7.8	7.6
Capacity Control			Variable Compressor Speed			
Refrigerant		R-410A				
Power Supply	V, Phase, Hz	208-230, 1, 60				
Air Flow (Hi)	CFM	307	353	381	381	568
Max. Fuse	Indoor A	15	15	15	15	15
	Outdoor A	15	15	15	15	20
Sound (Low/Hi)	dB (A)	22/38	22/42	34/45	34/46	34/49
Dimension	Indoor in.	11-3/4 x 30-11/16 x 8-1/4			12-13/16 x 43-5/16 x 10-1/4	
	Outdoor in.	21-5/8 x 31-1/2 x 11-1/4			33-4/16 x 33-1/16 x 13	
Weight	Indoor Ibs.	23	23	23	23	37
	Outdoor lbs.	82	82	88	88	128
Pipe Size	Liq. x Gas in.	1/4 x 3/8		1/4 x 1/2		1/4 x 5/8
Max. Pipe Length	Ft.	65	65	65	65	100
Max. Height Diff.	Ft.	40	40	40	40	50

Multi Ductless Split Systems - Heat Pump





Model		MXZ-2A20NA	MXZ-3A30NA	
Capacity - Cooling	Btu/h	20000	28400	
Capacity - Heating	Btu/h	22000	28600	
SEER		15.0	14.0	
EER		9.3	8.7	
Capacity Control		Variable Compressor Speed		
Refrigerant		R-410A		
Power Supply	V, Phase, Hz	208-230, 1, 60		
Connectable I/Us		2	3	
Max. Fuse	A	20	20	
Dimension	in.	27-15/16 x 33-1/16 x 13	35-7/16 x 35-7/16 x 12-5/8	
Weight	Outdoor Ibs.	130	158	
Pipe Size	Liq. x Gas in.	1/4 x 3/8	1/4 x 3/8	
Max. Pipe Length	Ft.	164	230	
Max. Height Diff.	Ft.	33	33	

Indoor Units Combinations					
Indoor Units	MXZ-2A20NA	MXZ-3A30NA			
MSZ-A09NA (09)	09 + 09	09 + 09 12 + 12 17 + 17			
MSZ-A12NA (12)	09 + 12	09 + 12	12 + 15	09 + 09 + 09	
MSZ-A15NA (15)	09 + 15	09 + 15	12 + 17	09 + 09 + 12	
MSZ-A17NA (17)	12 + 12	09 + 17	15 + 15	09 + 09 + 15	
MSZ-A24NA (24)		09 + 24	15 + 17	09 + 09 + 17	

- Catechin Plus Air Purifying System
- Variable Compressor Speed Inverter Technology
- Ozone Friendly R-410A Refrigerant
- Significant Energy Savings (up to 30%)
- Up to 15 combinations of 2:1 or 3:1 systems
- Super Quiet Technology Only 21dB
- High-speed Cooling and Heating
- Long Pipe Runs Up To 200Ft. (MXZ-3A30NA)
- Refrigerant Pre-charged

- Easy Installation No Ductwork Needed
- 1 Year Parts Warranty
- 6-Year Compressor Warranty



A MITSUBISHI ELECTRIC



What does MEQ mean to you?

Mitsubishi Electric Quality, or MEQ for short, stands for many things. It marks 70 years of excellence in technology, design and production. It represents the highest standards of comfort, efficiency and durability. And it simply means the best air-conditioners you can buy today.



The best quality you can rely on.

Our quality assurance program guided by our stringent Quality Policy ensures confidence in all phases of the development process from design and manufacture, to the finished product.

Sound test



Line test





Performance test

Meeting high standards of comfort and durability, our highly efficient air conditioners are quiet and easy to use. Mitsubishi Electric Air Conditioners provide the advanced technology to create the air of a new generation.



Heat stress test



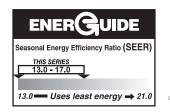
500 Hour

Saltwater spray rust test

Mitsubishi Electric Consumer Products 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.

2000 Hour

Endurance test





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