

Introducing Variable Compressor Speed Inverter (VCSI) Technology

Comfort and Energy Savings have now been united!

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 product 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 up to 30% 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 inverter soft start control. Inrush current increases energy usage and can also adversely affect other appliances such as lights dimming, etc.

2. When a VCSI 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 operation time. A fixed speed system can only operate at 100% capacity and cannot match the annual efficiencies of a VCSI system.

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.

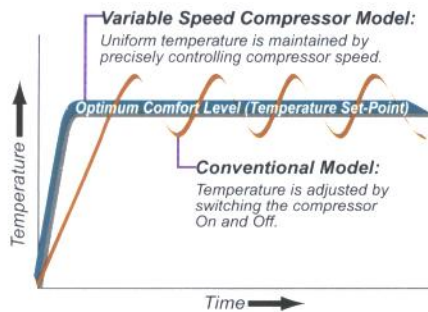


Other benefits includes:

- SEER rating from 13 to 17
- Longer piping lengths - up to 100 ft (30m)!*
- Ozone Friendly R-410A Refrigerant
- Catechin Plus Air Purifying System
- Soft start control to prevent high inrush current

*MSY(Z)-A24NA

Optimum Comfort



Mitsubishi Electric's Variable Compressor Speed Systems provide more comfort temperature control due to the innovative variable compressor speed technology found in Mitsubishi Electric CITY MULTI Systems.

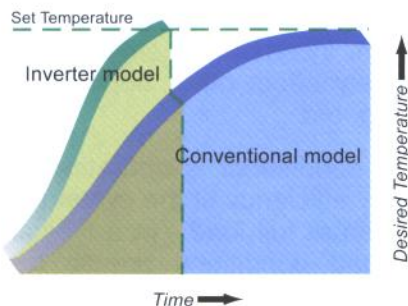
Unlike conventional units that start and stop repetitively, variable compressor speed units are able to detect subtle changes in room temperature and adjust compressor speed automatically. The result is less temperature fluctuation and a more comfortable climate.



Single Ductless Split Systems - Cooling Only

Model	MS-A09WA	MS-A12WA	MSY-A15NA	MSY-A17NA	MSY-A24NA	
Capacity - Cooling	Btu/h	9500	12000	15000	16200	22000
SEER		13.0	13.0	16.0	16.0	16.0
EER		10.9	11.3	8.9	7.9	7.5
Capacity Control		Fixed Compressor		Variable Compressor Speed		
Refrigerant		R-410A				
Power Supply	V, Phase, Hz	115, 1, 60			208-230, 1, 60	
Air Flow (Hi)	CFM	335	353	381	381	568
Max. Fuse	Indoor A	15	15	15	15	15
	Outdoor A	15	20	15	15	20
Sound (Low/Hi)	dB (A)	26/40	33/45	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		23-7/8 x 33-1/2 x 11-1/2		21-5/8 x 31-1/2 x 11-1/4
Weight	Indoor lbs.	23	23	23	23	37
	Outdoor lbs.	78	96	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.	35	35	40	40	50

Extra Energy Savings



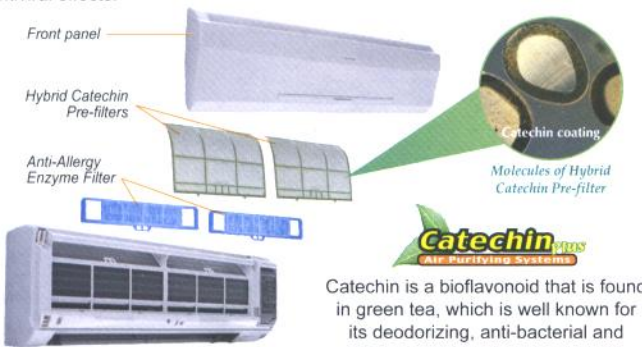
Compressor speed is controlled to maximize efficiency, changing speeds according to the cooling and heating load of a room. By controlling compressor speed precisely, Mr. Slim systems provide high-speed cooling and heating, thus reducing power consumption for extra energy savings.

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	7.9	7.7
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		23-7/8 x 33-1/2 x 11-1/2		21-5/8 x 31-1/2 x 11-1/4
Weight	Indoor lbs.	23	23	23	23	37
	Outdoor lbs.	82	82	84	84	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

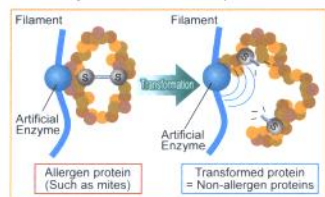
Cleaner and Healthier Air

Catechin Plus Air Purifying Systems consist of Catechin + Anti-Allergy Enzyme Filters, which deodorize, inactivate allergen, eliminate bacteria and achieve antiviral effects.



Catechin is a bioflavonoid that is found in green tea, which is well known for its deodorizing, anti-bacterial and anti-virus properties. With Mitsubishi Electric innovative technology, Catechin has been infused deeply into every molecule of the pre-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.



Both filters are washable and have a long lasting effectiveness for the lifetime of your system.



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	30	30
Dimension	in.	27-15/16 x 33-1/16 x 13	35-7/16 x 35-7/16 x 12-5/8
Weight	Outdoor lbs.	115	152
Pipe Size	Liq. x Gas in.	1/4 x 3/8	
Max. Pipe Length	Ft.	100	200
Max. Height Diff.	Ft.	35	35

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