



Intelligence. Efficiency. On Demand.

Mr. SLIM™



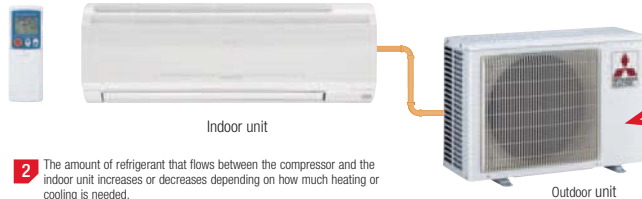
Variable Compressor Speed Inverter Technology

VCSI
TECHNOLOGY

At the heart of Mr. Slim M-Series ductless air conditioners and heat pumps lies Variable Compressor Speed Inverter (VCSI) technology. Unlike conventional machines which only cycle between On and Off, VCSI systems detect changes in room temperature and readjust the compressor speed to provide high-speed cooling and heating as needed. This means the space maintains a consistent, accurate temperature for the ultimate in comfort, all while using only the power that's needed. By adjusting the air conditioning capacity to run more efficiently, your energy costs are reduced.

VCSI Systems	Conventional Systems
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 its 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.

Smart way to stay cool-headed



2 The amount of refrigerant that flows between the compressor and the indoor unit increases or decreases depending on how much heating or cooling is needed.

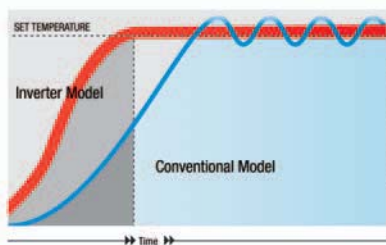
Mitsubishi Electric's VCSI Compressor

Magnetic Torque
+
Reluctance Torque

1 The compressor automatically varies its speed to match the indoor cooling or heating load. This means it consumes only the energy necessary to match the exact requirements of the room.

Extra Energy Savings

Compressor speed is precisely controlled to maximize efficiency, changing speeds according to the heating and cooling loads of a room. This lets Mr. Slim systems reduce power consumption for extra energy savings.



Conventional air conditioners take a longer time to reach their set-point temperature and can only offer you a range of temperatures between the On / Off cycles. VCSI systems closely control the variable compressor speed, therefore they reach the desired temperature faster and are able to keep the temperature constant by sensing the indoor cooling or heating needs.

Breathe Easy with Catechin Plus

Catechin is a bioflavonoid found in green tea and is known for its deodorizing, anti-bacterial and antiviral properties. With our innovative technology, Catechin has been infused deeply into every cell of the pre-filter, giving our air conditioners superior air-purifying performance and improving your home with better indoor air quality. Catechin Pre-Filters are washable and are manufactured to last up to 10 years or longer.

catechin plus
air purification system



Molecules of the Hybrid Catechin Pre-Filter



VCSI
TECHNOLOGY

MITSUBISHI ELECTRIC
Changes for the Better

SINGLE DUCTLESS SPLIT SYSTEMS

COOLING ONLY

Whisper-quiet technology lets you subtly cool any room easily and affordably. Sleek, wall-mounted indoor units can be installed over windows or doorways to stay out of the way, and fit perfectly into any decor.



Model		MS-A09WA	MS-A12WA	MSY-A15NA	MSY-A17NA	MSY-A24NA
Capacity (Min~Max)	Cooling Btu/h	9,500	12,000	3,100 ~ 15,000	3,100 ~ 16,200	4,400 ~ 22,000
Power Consumption (Min~Max)	Cooling W	870	1,070	210 ~ 1,690	210 ~ 2,070	290 ~ 2,880
SEER		13.0	13.0	16.0	16.0	16.0
Capacity Control		Fixed Compressor		Variable Compressor Speed		
Refrigerant		R-410A				
Power Supply	V, Phase, Hz	115, 1, 60		208-230, 1, 60		
Airflow (Hi)	CFM Dry	335/369'	406/447'	381/420'	381/420'	568/625'
Moisture Removal	Pints/h	2.7	3.2	4.7	5.1	7.3
Sound Indoor (Low / Hi)	Cooling dB(A)	26/40	33/45	34/45	34/46	34/49
Sound Outdoor	Cooling dB(A)	47	52	50	52	55
Max. Fuse Size (Time Delay)	Indoor A	15	15	15	15	15
	Outdoor A	15	20	15	15	20
Min. Ampacity	Indoor A	1.2	1.2	1.0	1.0	1.0
	Outdoor A	14	16	14	14	17
Dimension (H x W x D)	Indoor in.	11 1/2 x 30 1/8 x 8 3/4				12 1/8 x 43 3/8 x 10 1/4
	Outdoor in.	21 3/4 x 31 1/2 x 11 1/4	23 3/8 x 33 3/8 x 11 1/8	21 3/4 x 31 1/2 x 11 1/4		33 3/8 x 33 3/8 x 13
Weight	Indoor lbs.	23	23	23	23	37
	Outdoor lbs.	78	96	88	88	128
Pipe Size	Liq. x Gas in.	3/4 x 3/4		3/4 x 3/4		3/4 x 3/4
Max. Height Difference	Ft.	35	35	40	40	50
Max. Pipe Length	Ft.	65	65	65	65	100

SINGLE DUCTLESS SPLIT SYSTEMS

HEAT PUMP

Get exceptional high-speed heating and cooling performance through the compact wall-mounted indoor unit to maintain temperature control without obtrusive ductwork. Quiet, efficient and economical.



Model		MSZ-A09NA	MSZ-A12NA	MSZ-A15NA	MSZ-A17NA	MSZ-A24NA
Capacity (Min ~ Max)	Cooling Btu/h	5,500 ~ 9,000	5,700 ~ 12,000	3,100 ~ 15,000	3,100 ~ 16,200	4,400 ~ 22,000
Capacity (Min ~ Max)	Heating Btu/h	5,200 ~ 12,600	5,200 ~ 13,600	3,400 ~ 20,900	3,400 ~ 20,900	3,600 ~ 24,400
Power Consumption (Min ~ Max)	Cooling W	390 ~ 690	395 ~ 1,170	210 ~ 1,690	210 ~ 2,070	290 ~ 2,880
	Heating W	350 ~ 1,100	350 ~ 1,160	250 ~ 2,330	250 ~ 2,330	260 ~ 2,570
SEER	Cooling	17.0	17.0	16.0	16.0	16.0
HSPF	Heating	8.2	8.2	8.2	8.2	8.2
Capacity Control		Variable Compressor Speed				
Refrigerant		R-410A				
Power Supply	V, Phase, Hz	208-230, 1, 60				
Airflow (Hi)	CFM Dry	307/338'	353/389'	381/420'	381/420'	568/625'
Moisture Removal	Pints/h	2.3	3.2	4.7	5.1	7.3
Sound Indoor (Low / Hi)	Heating dB(A)	22/38	22/42	34/45	34/46	34/49
Sound Outdoor	Heating dB(A)	48	48	51	53	55
Max. Fuse Size (Time Delay)	Indoor A	15	15	15	15	15
	Outdoor A	15	15	15	15	20
Min. Ampacity	Indoor A	1.0	1.0	1.0	1.0	1.0
	Outdoor A	12	12	14	14	17
Dimension (H x W x D)	Indoor in.	11 1/2 x 30 1/8 x 8 3/4				12 1/8 x 43 3/8 x 10 1/4
	Outdoor in.	21 3/4 x 31 1/2 x 11 1/4		21 3/4 x 31 1/2 x 11 1/4		
Weight	Indoor lbs.	23	23	23	23	37
	Outdoor lbs.	82	82	88	88	128
Pipe Size	Liq. x Gas in.	3/4 x 3/4		3/4 x 3/4		3/4 x 3/4
Max. Height Difference	Ft.	40	40	40	40	50
Max. Pipe Length	Ft.	65	65	65	65	100

MULTI DUCTLESS SPLIT SYSTEMS

HEAT PUMP

Mr. Slim Multi-Split systems let you connect up to three indoor units to a single outdoor unit to provide customized temperature control while reducing electrical costs and outdoor space needed. Each indoor unit has its own remote control for customized comfort. The outdoor unit capacity changes to match the required indoor load for maximum efficiency.



Model		MXZ-2A20NA	MXZ-3A30NA
Capacity (Min ~ Max)	Cooling Btu/h	7,800 ~ 20,000	12,600 ~ 28,400
Capacity (Min ~ Max)	Heating Btu/h	8,500 ~ 22,000	11,400 ~ 36,000
Power Consumption (Min ~ Max)	Cooling W	630 ~ 2,150	1,000 ~ 3,250
	Heating W	520 ~ 1,780	740 ~ 2,880
SEER	Cooling	15.0	16.0
HSPF	Heating	9.0	10.0
Capacity Control		Variable Compressor Speed	
Refrigerant		R-410A	
Power Supply	V, Phase, Hz	208-230, 1, 60	
Connectable Indoor Units		2	3
Sound Outdoor (Cooling / Heating)	dB(A)	49/51	49/49
Max. Fuse Size (Time Delay)	A	20	20
Min. Ampacity	A	15	15
Dimension (H x W x D)	in.	27 1/8 x 33 1/8 x 13	35 1/8 x 35 1/8 x 12 1/8
Weight	Outdoor lbs.	130	158
Pipe Size	Liq. x Gas in.	3/4 x 3/4	
Max. Height Diff.	Ft.	33	33
Max. Pipe Length	Ft.	164	230

Indoor Unit Combinations

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

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