

# Mr. Slim MSZ-FD09/12NA

Highly Efficient, Extremely Quiet



Mr. SLIM®

Up to 25 SEER!

INVERTER



#### General Features:

- Highly energy-efficient system with quiet operation
- Updated sleek, compact indoor unit design
- Integrated i-see™ sensor automatically detects room air temperature differences and adjusts for better comfort
- Includes Standard, Platinum Deodorizing, and Anti-allergy Enzyme Filters for a complete triple air purifying system
- “Powerful Mode” function permits system to temporarily run at a lower/higher temperature with an increased fan speed, which quickly brings the room to the optimum comfort level
- Auto changeover for cooling and heating
- Wireless remote controller

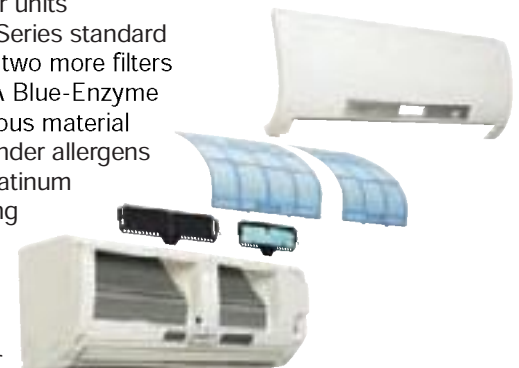
The Mr. Slim M-Series MSZ-FD9/12NA indoor unit design incorporates the i-see sensor, contains not two but three filters, produces increased heating capacity with all of the standard features in the MSZ-A\*\*NA system product line. On top of all of that, the MSZ-FD09/12NA systems deliver up to 25 SEER while being extremely quiet at a low 22dB(A) for the indoor unit.

The increased energy efficiency, **up to 45% over standard Mr. Slim M-Series systems and 90% over industry standard requirement of 13 SEER**, is a result of a powerful magnet rotor that allows for lower current input. With the increased energy efficiency and SEER ratings the MSZ-FD models are ENERGY STAR® Tier 2 certified.

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



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



The MSZ-FD models provide high energy efficiency, quiet operation, cutting-edge technology for temperature control and air filtration.

**Highly efficient, extremely quiet.**

# Mr. Slim MSZ-FD09/12NA Product Specifications



Model Name	Indoor Unit		MSZ-FD09NA	MSZ-FD12NA	
	Outdoor Unit		MUZ-FD09NA	MUZ-FD12NA	
Cooling *1	Rated Capacity	Btu/h	9,000	12,000	
	Capacity Range	Btu/h	2,800-9,000	2,800-12,000	
	Total Input	W	650 (160-650)	960 (160-960)	
	Energy Efficiency	SEER	25	22	
	Moisture Removal	Pints/h	2.1	2.9	
	Sensible Heat Factor		0.76	0.73	
Heating at 47° F *2	Rated Capacity	Btu/h	10,900	13,600	
	Capacity Range	Btu/h	3,000-18,000	3,000-21,000	
	Total Input	W	750 (150-2,400)	980 (150-2,400)	
	HSPF (Region IV)	Btu/h/W	10	10.55	
Heating at 17° F	Rated Capacity *3	Btu/h	5,500	8,000	
	Total Input *3	W	540	730	
	Maximum Capacity	Btu/h	12,500	13,600	
	Total Input at Maximum Capacity	W	1,730	1,780	
Power Supply	Phase, Cycle, Voltage		1 Phase, 60Hz, 208/230V *4		
	Breaker Size	A	15		
Voltage	Indoor - Outdoor S1-S2		AC 208/230		
	Indoor - Outdoor S2-S3		DC12-24		
	Indoor - Remote Controller		Wireless Type		
Indoor Unit	MCA	A	1.0		
	Fan Motor	F.L.A.	0.76		
	Airflow (Cooling) (Lo-Med-Hi) *1	DRY (CFM)	162-226-339	162-226-381	
		WET (CFM)	144-202-307	144-202-350	
	Airflow (Heating) (Lo-Med-Hi) *2	DRY (CFM)	166-240-367	166-240-399	
		Sound Pressure Level (Cooling) (Lo-Med-Hi) *1	dB(A)	22-31-39	22-33-43
	Sound Pressure Level (Heating) (Lo-Med-Hi) *2	22-31-40		22-33-43	
	External Finish Color		Munsell No. 1.0Y 9.2/0.2		
	Dimension Unit	W: In.	31-7/16		
		D: In.	10-1/8		
		H: In.	11-5/8		
	Weight Unit	Lbs.	27		
Field Drain Pipe Size O.D.	In.	5/8			
Outdoor Unit	MCA	A	12		
	MOCP	A	15		
	Fan Motor	F.L.A.	0.56		
	Compressor	Model (Type)	DC Inverter-driven Twin Rotary		
		R.L.A.	8.6		
		L.R.A.	10.8		
	Airflow (Cooling/Heating)	CFM	1,102/1,187		
	Refrigerant Control		Linear Expansion Valve		
	Defrost Method		Reverse Cycle		
	Sound Pressure Level *1	dB(A)	48		
	External Finish Color		Munsell No. 3Y 7.8/1.1		
	Dimensions	W: In.	31-1/2		
D: In.		11-1/4			
H: In.		21-5/8			
Weight	Lbs.	80			
Remote Controller	Type	Wireless Remote			
Refrigerant	Type	R410A			
	Charge	Lbs., Oz.	2, 9		
	Oil	Type (Fl. Oz.)	NE022 (29)		
Refrigerant Pipe	Gas Side O.D.	In.	3/8		
	Liquid Side O.D.		1/4		
Refrigerant Pipe Length	Height Difference (Max.)	Ft.	40		
	Length (Max.)		65		
Connection Method	Indoor/Outdoor		Flared/Flared		

## MSZ-FD\*\*NA OPERATING RANGE

		INDOOR INTAKE AIR TEMPERATURE	OUTDOOR INTAKE AIR TEMPERATURE
COOLING	MAXIMUM	90° F D.B., 73° F W.B.	115° F D.B.
	MINIMUM	67° F D.B., 57° F W.B.	14° F D.B.
HEATING	MAXIMUM	80° F D.B., 67° F W.B.	75° F D.B., 65° F W.B.
	MINIMUM	70° F D.B., 60° F W.B.	5° F D.B., 4° F W.B.

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 (6.1° 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.

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Form No. MSFDSheet-3-09