MITSUBISHI ELECTRIC
COOLING & HEATING

M-SERIES SIN

MSZ-FH**NA

RESURGAM CITY OF PORTLAND, MAINE
Reviewed for Code Compliance
Inspections Division
Approved with Conditions
Date: 04/09/15

PRODUCT GUIDE

H2i™ MSZ-FH SINGLE-ZONE HEAT PUMP

Product Overview

Heat pumps are now a realistic option for any home, in any climate. The new MSZ-FH family of Hyper-Heating INVERTER residential systems offer year-round, high-efficiency cooling and heating for a variety of rooms, including bedrooms, basements, sunrooms and more. The slim, wall-mounted indoor units provide zone comfort control while the INVERTER-driven compressor and electric LEVs offer higher efficiency with controlled power usage.

- Industry-leading efficiency of 30.5 SEER (MSZ-FH09NA).
- Hyper-Heating performance down to -13° F outdoor ambient.
- 100% heating capacity at 5° F outdoor ambient.
- Triple-action filtration.
  - Nano-platinum filter.
  - Electrostatic anti-allergen enzyme filter.
  - Deodorizing filter.
- Double-vane air delivery for enhanced circulation.
  - Option to set each vane separately.
  - Indirect or direct setting option.
  - Natural flow setting that creates air movement like a natural breeze.
- i-see Sensor™ 3D.
  - Infrared human sensing technologies to measure location of human heat signatures.
  - i-see sensing floor temperature to deliver conditioned air to those areas by double-van airflow.
- NEW multi-function wireless controller.
- Optional controllers.
  - MHK1 wireless wall-mounted controller (compatible with Honeywell Remote Internet Gateway for iPhone, Android, smart device control via the internet).
  - Wired wall-mounted controller (PAR-31MAA requires MAC-333IF).
  - Simple MA remote controller (PAC-YT53CRAU requires MAC-333IF).

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Model Name	Indoor Unit		MSZ-FH09NA	MSZ-FH12NA	MSZ-FH18NA
	Outdoor Unit		MUZ-FH09NA	MUZ-FH12NA	MUZ-FH18NA
Cooling *1	Rated Capacity	Btu/h	9,000	12,000	18,000
	Capacity Range	Btu/h	2,800-9,000	2,800-12,000	3,450 - 19,000
	Rated Total Input	W	560	870	1,200
	Energy Efficiency	SEER	30.5	26.1	22.0
	Moisture Removal	Pints/h	0.6	1.9	4.0
	Sensible Heat Factor		0.920	0.830	0.700
Heating at 47° F *2	Rated Capacity	Btu/h	10,900	13,600	18,000
	Capacity Range	Btu/h	1,600 - 18,000	3,700 - 21,000	5,150 - 24,000
	Rated Total Input	W	710	950	1,300
	HSPF (IV)	Btu/h/W	13.5	12.5	12.0
Heating at 17° F *3	Rated Capacity	Btu/h	6,700	8,000	11,000
	Rated Total Input	W	600	720	1,020
	Maximum Capacity	Btu/h	12,200	13,600	18,000
Heating at 5° F	Maximum Capacity	Btu/h	10,900	13,600	18,000
Power Supply	Phase, Cycle, Voltage		1 Phase, 60Hz, 208/230V *4		
Voltage	Indoor - Outdoor S1 - S2		AC 208 / 230V		
	Indoor - Outdoor S2 - S3		DC ±24V		
	Indoor - Remote Controller		Wireless Type (Optional Wired Controller: DC12V)		
Indoor Unit	MCA	A	1.0		
	Blower Motor (ECM)	F.L.A.	0.67		
	Airflow at Cooling (Lo-Med-Hi-Super HI-Powerful) *1	DRY (CFM)	137-167-221-304-381	137-167-221-304-398	225-262-304-355-411
		WET (CFM)	117-143-190-261-328	117-143-190-261-342	194-225-261-305-354
	Airflow at Heating (Lo-Med-Hi-Super HI-Powerful) *2	WET (CFM)	140-167-225-325-437	140-167-225-325-454	201-254-317-394-497
	Sound Pressure Level at Cooling (Lo-Med-Hi-Super HI-Powerful) *1	dB(A)	20-23-29-36-40	21-24-29-36-41	27-31-35-39-44
	Sound Pressure Level at Heating (Lo-Med-Hi-Super HI-Powerful) *2	dB(A)	20-24-29-36-42	21-24-29-36-42	25-29-34-39-46
	External Finish Color		Munsell No. 1.0Y 9.2 / 0.2		
	Dimension Unit	W: In.	36-7/16		
		D: In.	9-3/16		
		H: In.	12(+11/16)		
	Weight Unit	Lbs.	29		
	Field Drainpipe Size O.D.	In.	19/32		
Remote Controller	Type		Select from MHK1 (Preferred), PAR-31MAA, or PAC-YT53CRAU Remote Controllers		
Outdoor Unit	MCA	A	11		16
	MOCP	A	15		20
	Fan Motor (ECM)	F.L.A.	0.50		0.93
	Compressor	Model (Type)	DC INVERTER-driven Twin Rotary		
		R.L.A.	8.2		12.0
		L.R.A.	10.3		15.0
	Airflow (Cooling/Heating)	CFM	1,150/1,280		1,190/1,320
	Refrigerant Control		Linear Expansion Valve		
	Defrost Method		Reverse Cycle		
	Sound Pressure Level at Cooling *1	dB(A)	48	49	51
	Sound Pressure Level at Heating *2	dB(A)	49	51	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		34-5/8
	Weight	Lbs.	81	83	124
Refrigerant	Type		R410A		
	Charge	Lbs., Oz.	2, 9		3, 7
	Oil	Type (fl. oz.)	FV50S 350cc		FV50S 400cc
Refrigerant Pipe	Gas Side O.D.	In.	3/8		1/2
	Liquid Side O.D.	In.	1/4		
Refrigerant Pipe Length	Height Difference (Max.)	Ft.	40		50
	Length (Max.)	Ft.	65		100
Connection Method	Indoor/Outdoor		Flared/Flared		

NOTES: Test conditions are based on AHRI 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 | Seven-year warranty on compressor. Five-year warranty on parts.

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