MITSUBISHI ELECTRIC
Heating and Cooling

M-SERIES

SUBMITTAL DATA: MSZ-HM09NA-(U1)(U2) & MUZ-HM09NAH-U1

9,000 BTU/H WALL-MOUNTED HEAT PUMP SYSTEM

Job Name:	Location:	Date:
Purchaser:	Engineer:	
Submitted to:	For ☐Reference ☐Approval ☐Construction	
System Designation:	Schedule No.:	

ACCESSORIES:

☐ Windscreens (ME-FR-15-17)

Controls

☐ Wired Remote Controller (PAR-40MAA)
☐ Wireless Controller (MHK2)
☐ Simple MA Remote Controller (PAC-YT53CRAU-J)
☐ Thermostat Interface (PAC-US444CN-1)
☐ System Control Interface (MAC-334IF-E)

Cooling	Rated Capacity (*1)	Btu/h	9000
	Capacity Range	Btu/h	3,800 - 10,000
	Total input (*1)	W	750
	Energy Efficiency	EER / EER2 (*1)	12.0 / 12.0
		SEER / SEER2 (*3)	18.0 / 20.0
	Moisture Removal	Pints/h	1.5
Heating at 47°F	Rated Capacity (*1)	Btu/h	10,900
	Capacity Range	Btu/h	4,500 - 11,800
	Total input (*1)	W	900
	HSPF / HSPF2 (Region IV) (*3)	Btu/h/W	9.0 / 8.5
Heating at 17°F	Rated Capacity (*2)	Btu/h	6,700
	Rated Total input (*2)	W	700
	Maximum Capacity (*2)	Btu/h	7,200
	Maximum Total Input (*2)	W	780
Power supply	Voltage, Phase, Cycle		208/230V, 1-phase, 60Hz
Voltage	Indoor - Outdoor S1-S2		AC 208/230V
	Indoor - Outdoor S2-S3		DC12-24V
	Indoor - Remote controller		DC12V
Indoor unit	MCA (*)	A	1.0
	Fan Motor	F.L.A	0.76
	Air fow (Lo-Mid-High-Super High)	DRY(CMM)	170-237-321-399
		WET(CMM)	134-201-286-364
	Sound Level CLG (Low-Med-Hi-Super High)	dB (A)	22-30-37-43
	Sound Level HTG (Low-Med-Hi-Super High)	dB (A)	22-30-37-43
	External Finish Color		Munsell 1.0Y 9.2/0.2
	Dimensions	W: in	31-7/16
		D: in	9-1/8
		H: in	11-5/8
	Weight Unit	lbs	22
	Field Drainpipe O.D.	in	O.D. 5/8

Outdoor unit	MCA (*)	A	9
	MOCP (*)	A	15
	Fan Motor	F.L.A.	0.5
		R.L.A.	6.2
		L.R.A.	7.7
	Air Flow Cooling (Low-Med-High)	CFM	1,063
	Air Flow Heating (Low-Med-High)	CFM	1,105 - 1.282
	Refrigerant Control		Linear Expansion Valve
	Defrost Method		Reverse Cycle
	Sound Level (Cooling) (*1)	dB (A)	46
	Sound Level (Heating) (*1)	dB (A)	50
	External Finish Color		Munsell No.3Y 7.8/1.1
	Dimension	W: in	31-1/2
		D: in	11-1/4
		H: in	21-5/8
	Weight	lbs	73
Remote Controller	Type		Simple Wireless Remote
Refrigerant	Type		R410A
	Charge	lbs, oz	1,12
	Oil	Type(Fl.oz.)	FV50S(9.1)
Refrigerant Pipe	Liquid side O.D.	in	1/4
	Gas side O.D.	in	3/8
	Height Difference (Max)	ft	40
	Length (Max.)	ft	65
Connection Method	Indoor/Outdoor		Flared/Flared
Operation Guarantee	Cooling	°F (°C)	90°F --> 14°F (32°C --> -10°C)
	Heating	°F (°C)	80°F --> -15°F (26°C --> -20°C)
Efficiency	COP at 47°F[1] Rated Capacity		3.57
	COP at 17°F[2] Maximum Capacity		2.82
	COP at 5°F Maximum Capacity		2.51

Test condition ‡3

ARI	Mode	Test	Indoor air condition (°F) Dry bulb	Indoor air condition (°F) Wet bulb	Outdoor air condition (°F) Dry bulb	Outdoor air condition (°F) Wet bulb
	SEER (Cooling)	"A-2" Cooling steady state at rated compressor speed	80	67	95	(75)
		"B-2" Cooling steady state at rated compressor speed	80	67	82	(65)
		"B-1" Cooling steady state at minimum compressor speed	80	67	82	(65)
		"F-1" Cooling steady state at minimum compressor speed	80	67	67	(53.5)
		"E-V" Cooling steady state at intermediate compressor speed ‡4	80	67	87	(69)
	HSPF (Heating)	"H1-2" Heating steady state at rated compressor speed	70	60	47	43
		"H3-2" Heating at rated compressor speed	70	60	17	15
		"H0-1" Heating steady state at minimum compressor speed	70	60	62	56.5
		"H1-1" Heating steady state at minimum compressor speed	70	60	47	43
		"H2-V" Heating at intermediate compressor speed ‡4	70	60	35	33

‡4: a) Intermediate compressor speed = ("Rated compressor speed" - "minimum compressor speed") / 3 + "minimum compressor speed".

NOTE: Test conditions are based on AHRI 210/240.

❉ 1: Rating conditions (Cooling) — Indoor: 80˚FDB, 67˚FWB, Outdoor: 95˚FDB, (75˚FWB)
(Heating) — Indoor: 70˚FDB, 60˚FWB, Outdoor: 47˚FDB, 43˚FWB

❉ 2: (Heating) — Indoor: 70˚FDB, 60˚FWB, Outdoor: 17˚FDB, 15˚FWB

❉ 3: Test condition

Specifications are subject to change without notice

Note: Mitsubishi Electric (MESCA) supports the use of only MESCA supplied and approved accessories for proper functioning of the unit(s). Use of non-MESCA supported accessories will affect warranty coverage.

*All electrical work shall comply with National (CEC) and local codes and regulations.

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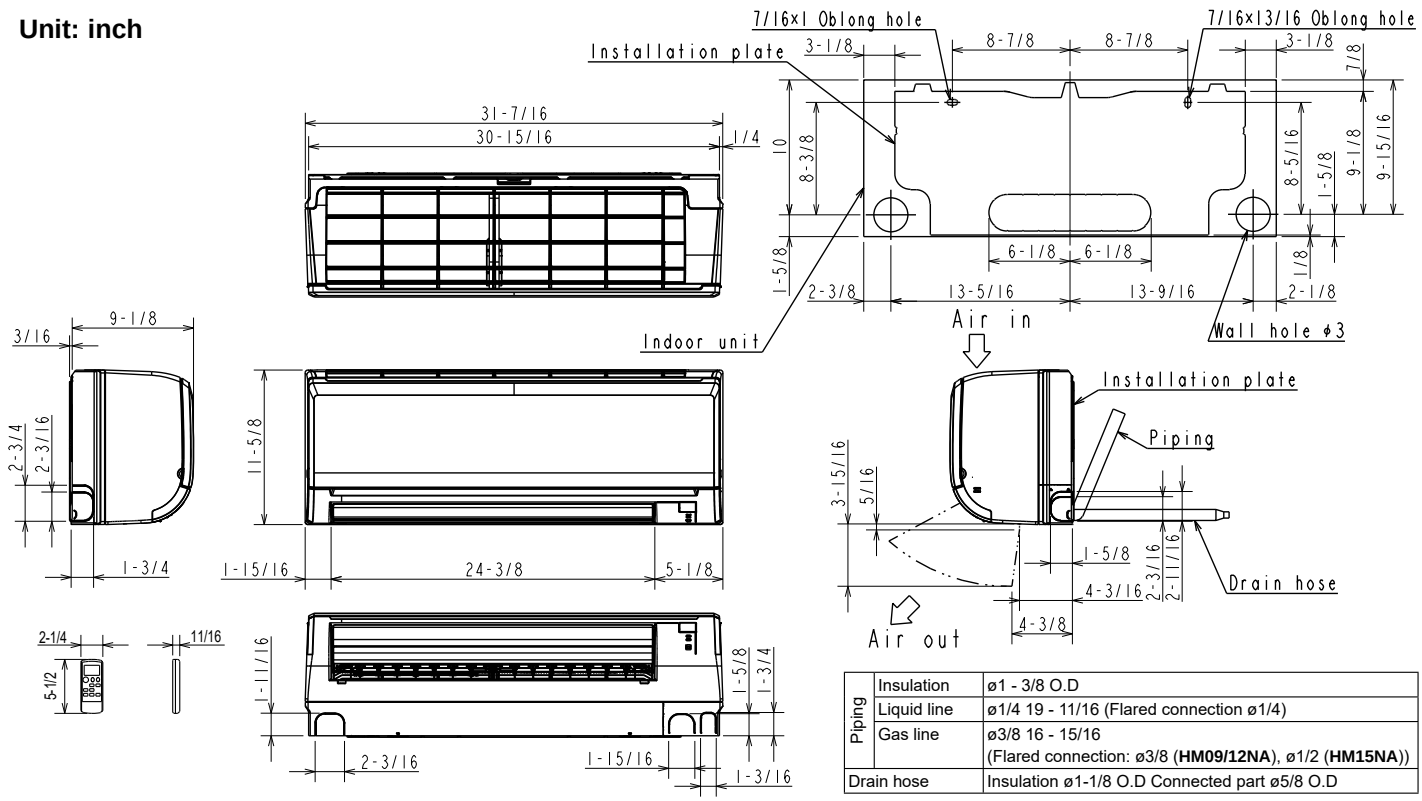
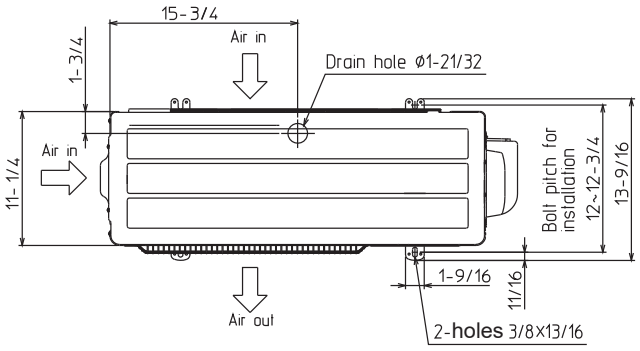
DIMENSIONS: **MSZ-HM09NA-(U1)(U2) & MUZ-HM09NAH-U1**

Unit: inch



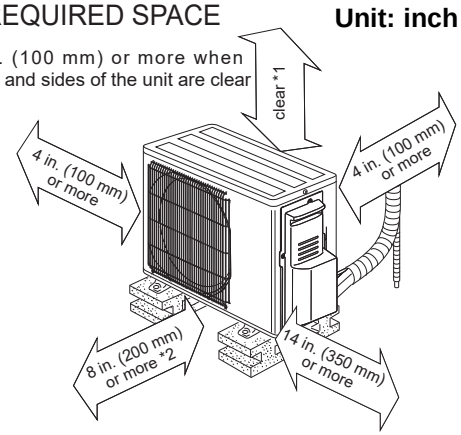
Piping	Insulation	ø1 - 3/8 O.D
	Liquid line	ø1/4 19 - 11/16 (Flared connection ø1/4)
	Gas line	ø3/8 16 - 15/16 (Flared connection: ø3/8 (**HM09/12NA**), ø1/2 (**HM15NA**))
Drain hose		Insulation ø1-1/8 O.D Connected part ø5/8 O.D



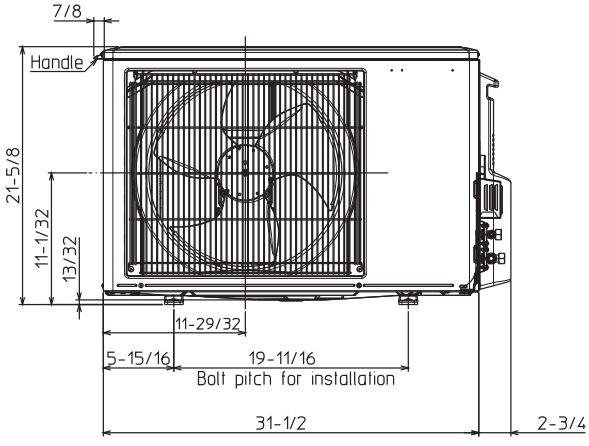
REQUIRED SPACE

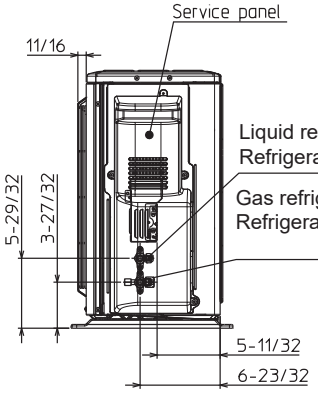
Unit: inch

*1 4 in. (100 mm) or more when front and sides of the unit are clear



*2 When any 2 sides of left, right and rear of the unit are clear





Liquid refrigerant pipe joint
Refrigerant pipe (flared) ø 1/4

Gas refrigerant pipe joint
Refrigerant pipe (flared) ø 3/8 (HM09/12)
ø 1/2 (HM15/18)

Form # SB_MSZ-HM09NA-(U1)(U2)_MUZ-HM09NAH-U1_202210
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