

SUBMITTAL DATA: MSZ-FE12NA-8 & MUZ-FE12NA1

12,000 BTU/H WALL-MOUNTED HEAT PUMP SYSTEM

Job Name:	Location:	Date:
Purchaser:	Engineer:	
Submitted to:	For <input type="checkbox"/> Reference <input type="checkbox"/> Approval <input type="checkbox"/> Construction	
System Designation:	Schedule No.:	

GENERAL FEATURES

- Highly energy-efficient system that features 92% heating capacity at 5°F, 75% at -4°F, and 58% at -13°F
- Updated sleek, compact indoor unit design
- Includes Standard, Platinum Deodorizing, and Anti-allergy Enzyme filters for a complete 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
- Integrated i-see Sensor automatically adjusts the unit's operation according to temperature differences detected between the floor and the intake air, ensuring optimum comfort and energy usage
- Hand-held Wireless Remote Controller
- Base heater is available as an option
- Limited warranty: five years on parts and defects and seven years on compressors

OPTIONAL ACCESSORIES
Outdoor Unit

- Base Heater (MAC-640BH-U)
- Drain Socket (MAC-851DS)

Indoor Unit

- Condensate Pump (SI3100-230; 230V)
- Replacement Platinum Deodorizing Filter (MAC-308FT)
- Replacement Anti-allergy Enzyme Filter (MAC-418FT; MERV 8)

Controller Options

- Wireless Remote Controller Kit (MHK1) with Remote Controller (MRCH1), Wireless Receiver (MIFH1), and cable (MRC1)*
- Setback down to 50°F when used with MRCH1 Remote Controller
- Portable Central Controller (MCCH1; for use with Wireless Remote Controller Kit MHK1)*
- Outdoor Air Sensor (MOS1; for use with Remote Controller (MRCH1), Wireless Remote Controller Kit (MHK1) and Portable Central Controller (MCCH1)*

*See Submittal for information on each option.

- Wall-mounted Wired Remote Controller (PAR-21MAA; req. MAC-3971F)
- MA Contact Terminal Interface (MAC-397IF)
- M-NET Control Adapter (MAC-399IF)
- Remote Temperature Sensor (M21-JKO-307)
- Lockdown Bracket for Hand-held Controller (RCMKP1CB)

Cooling*

Rated Capacity 12,000 Btu/h
 Minimum Capacity 2,800 Btu/h
 SEER 23.0 Btu/h/W
 Total Input 930 W

Heating at 47° F*

Rated Capacity 13,600 Btu/h
 Minimum Capacity 3,000 Btu/h
 HSPF 10.6 Btu/h/W
 Total Input 950 W

Heating at 17° F*

Rated Capacity 7,900 Btu/h
 Rated Total Input 750 W
 Maximum Capacity 13,600 Btu/h
 Maximum Total Input 1,780 W

* Rating Conditions (Cooling) - Indoor: 80°F (27°C) DB, 67°F (19°C) WB; Outdoor: 95°F (35°C) DB, 75°F (24°C) WB.
 (Heating at 47°F) - Indoor: 70°F (21°C) DB, 60°F (16°C) WB; Outdoor: 47°F (8°C) DB, 43°F (6°C) WB.
 (Heating at 17°F) - Indoor: 70°F (21°C) DB, 60°F (16°C) WB; Outdoor: 17°F (-8°C) DB, 15°F (-9°C) WB.

Heating at 5° F

Maximum Capacity 12,500 Btu/h

Electrical Requirements

Power Supply 208 / 230V, 1-Phase, 60 Hz
 Breaker Size 15 A

Voltage

Indoor - Outdoor S1-S2 AC 208 / 230V
 Indoor - Outdoor S2-S3 DC 12-24V
 Wireless Remote Controller DC



Indoor Unit: MSZ-FE12NA-8



Wireless Remote Controller



Outdoor Unit: MUZ-FE12NA1

OPERATING RANGE

		Indoor Intake Air Temp.	Outdoor Intake Air Temp.
Cooling	Maximum	90°F (32°C) DB, 73°F (23°C) WB	115°F (46°C) DB
	Minimum	67°F (19°C) DB, 57°F (14°C) WB	14°F (-10°C) DB
Heating	Maximum	80°F (27°C) DB, 67°F (19°C) WB	75°F (24°C) DB, 65°F (18°C) WB
	Minimum	70°F (21°C) DB, 60°F (16°C) WB	-13°F (-25°C) DB, -15°F (-26°C) WB**

** System cuts out at -18°F (-28°C) to avoid thermistor error, but recovers from cutout operation and automatically restarts at -13°F (-25°C).

Indoor Unit

MCA 1 A
 Fan Motor 0.76 F.L.A.
 Airflow
 Cooling (Lo - Med - Hi - Powerful) 162 - 226 - 381 - 410 Dry CFM
 144 - 202 - 350 - 367 Wet CFM
 Heating (Lo - Med - Hi - Powerful) 166 - 240 - 399 - 420 Dry CFM
 Sound Pressure Level
 Cooling (Lo - Med - Hi - Powerful) 22 - 33 - 43 - 45 dB(A)
 Heating (Lo - Med - Hi - Powerful) 22 - 33 - 43 - 44 dB(A)

DIMENSIONS	UNIT INCHES / MM
W	31-7/16 / 799
D	10-1/8 / 257
H	11-5/8 / 295

Weight 27 lbs. / 12 kg
 External Finish Munsell No. 1.0Y 9.2 / 0.2
 Field Drainpipe Size O.D. 5/8" / 15.88 mm
 Remote Controller Wireless

Outdoor Unit

Compressor DC Inverter-driven Twin Rotary
 MCA 12 A
 Fan Motor 0.56 F.L.A.
 Sound Pressure Level
 Cooling 48 dB(A)
 Heating 49 dB(A)

DIMENSIONS	INCHES / MM
W	31-1/2 / 800
D	11-1/4 / 286
H	21-5/8 / 549

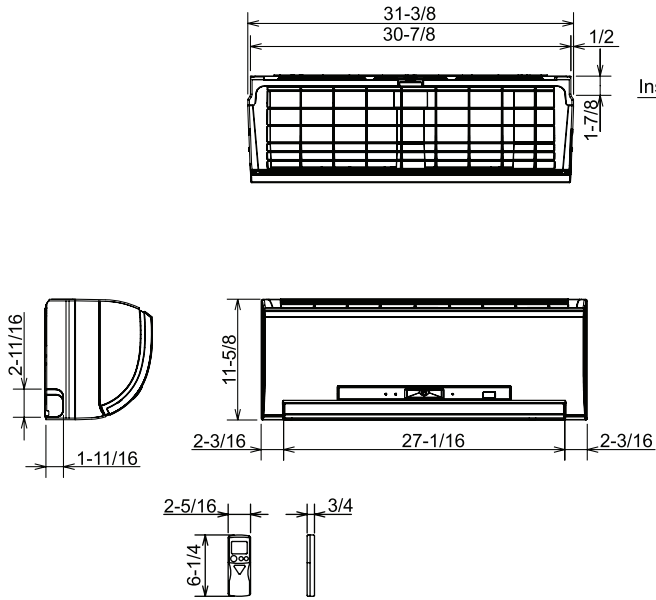
Weight 80 lbs. / 36 kg
 External Finish Munsell No. 3.0Y 7.8 / 1.1
 Refrigerant Type R410A
 Refrigerant Pipe Size O.D.
 Gas Side 3/8" / 9.52 mm
 Liquid Side 1/4" / 6.35 mm
 Max. Refrigerant Pipe Length 65' / 20 m
 Max. Refrigerant Pipe Height Difference 40' / 12 m
 Connection Method Flared



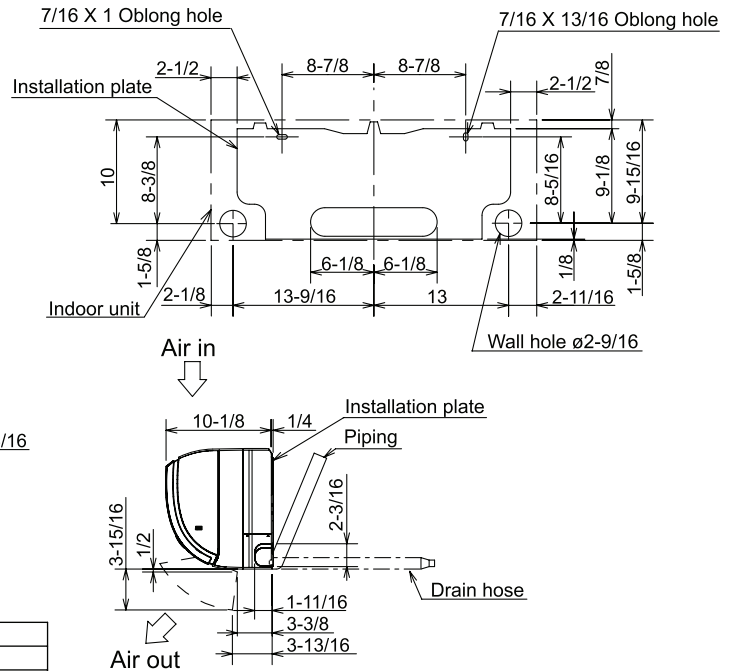
DIMENSIONS: MSZ-FE12NA-8 & MUZ-FE12NA1

MSZ-FE12NA-8

Unit: inch

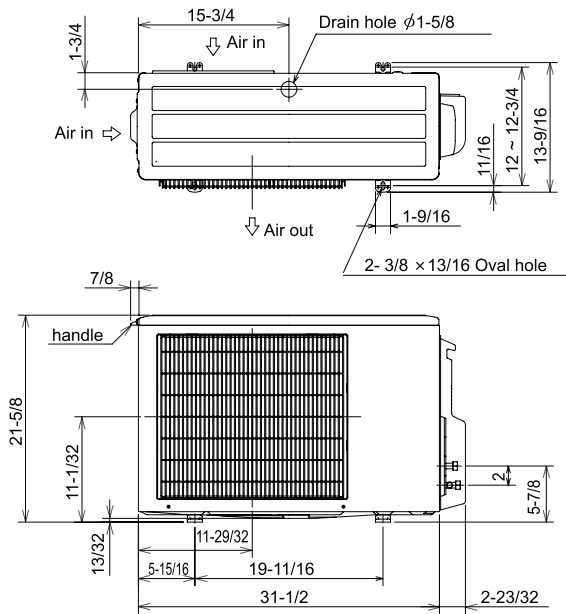


Insulation	ø1-3/8 O.D
Piping	
Liquid line	ø1/4 19-11/16 (Flared connection ø1/4)
Gas line	ø3/8 16-15/16 (Flared connection ø3/8)
Drain hose	Insulation ø1-1/8 O.D Connected part ø5/8 O.D

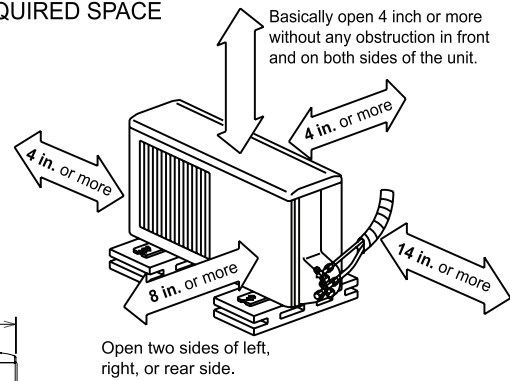


MUZ-FE12NA1

Unit: inch



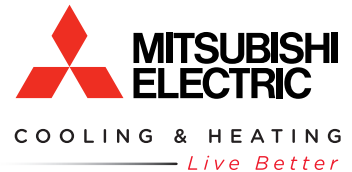
REQUIRED SPACE



Liquid pipe : 1/4 (flared)
Gas pipe : 3/8 (flared)



Intertek



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