



SUBMITTAL DATA: MSZ-EF12NAW-U1

Nv-SERIES

12,000 BTU/H WALL-MOUNTED INDOOR UNIT FOR MXZ-C MULTI-ZONE HEAT-PUMP SYSTEMS

Job Name:

System Reference:

Date:



Indoor Unit: MSZ-EF12NAW-U1



Wireless Remote Controller

ACCESSORIES:

- ☐ Deodorizing Filter (MAC-3000FT-E)
- ☐ Electrostatic Anti-allergy Enzyme Filter (MAC-2330FT-E)
- ☐ Backlit, Wall-mounted, Wireless Controller (MHK1)
- ☐ Portable Central Controller (MCCH1)
- ☐ Wired MA Controller (PAR-33MAA¹)
- ☐ Simple MA Controller (PAC-YT53CRAU¹)
- ☐ Touch MA Controller (PAR-CT01MAU-SB¹)
- ☐ Wired Remote Sensor (PAC-SE41TS-E)
- ☐ Wireless Temperature and Humidity Sensor (PAC-USWHS003-TH-1)
- ☐ Outside Air Sensor for MHK1 (MOS1)
- ☐ System Control Interface (MAC-333IF-E²)
- ☐ Wireless Interface (PAC-USWHS002-WF-1)
- ☐ Thermostat Interface (PAC-US444CN-1)
- ☐ kumo station® (PAC-WHS01HC-E)
- ☐ USNAP Interface (PAC-WHS01UP-E)
- ☐ IT Extender (PAC-WHS01IE-E)
- ☐ BACnet® and Modbus® Interface (PAC-UKPRC001-CN-1)
- ☐ Lockdown Bracket for Wireless, Hand-held, Remote Controllers (RCMKP1CB)
- ☐ Soft Dry Cloth (MAC-1001CL-E)
- ☐ i-see Sensor™ (PAC-SH91MK-E)
- ☐ Blue Diamond Sensor Extension Cable—15 Ft. (C13-103)
- ☐ Blue Diamond Alarm Extension Cable—6.5 Ft. (C13-192)
- ☐ Blue Diamond MultiTank—collection tank for use with multiple pumps (C21-014)
- ☐ Blue Diamond Rubber Foot Pads (F10-010)
- ☐ Mini Condensate Pump—230V application (SI30-230)
- ☐ MegaBlue Advanced Blue Diamond Condensate Pump w/ Reservoir & Sensor (X87-835-110 to 250V)
- ☐ MaxiBlue Advanced Blue Diamond Mini Condensate Pump w/ Reservoir & Sensor [110V] up to 48,000 Btu/h [recommended] (X87-711-110V)
- ☐ MaxiBlue Advanced Blue Diamond Mini Condensate Pump w/ Reservoir & Sensor [208/230V] up to 48,000 Btu/h [recommended] (X87-721-208/230V)
- ☐ MicroBlue Blue Diamond Mini Condensate Pump [110/208/230V] up to 18,000 Btu/h (X85-003)
- ☐ Fascia Kit for MicroBlue Pump – mounts the MicroBlue and sensor directly beneath the indoor unit (T18-016)
- ☐ Drain Pan Level Sensor [Control for indoor unit shut off to prevent drain pan overflow] (DPLS2)
- ☐ 3 Pole Disconnect Switch [30A/600VUL] [fits 2"X4" utility] - Black (TAZ-MS303)
- ☐ 3 Pole Disconnect Switch [30A/600VUL] [fits 2"X4" utility] - White (TAZ-MS303W)
- ☐ 1/4" x 3/8" x 15' / 1/2" Lineset [Twin-Tube Insulation] (MLS143812T-15)
- ☐ 1/4" x 3/8" x 30' / 1/2" Lineset [Twin-Tube Insulation] (MLS143812T-30)
- ☐ 1/4" x 3/8" x 50' / 1/2" Lineset [Twin-Tube Insulation] (MLS143812T-50)
- ☐ 1/4" x 3/8" x 65' / 1/2" Lineset [Twin-Tube Insulation] (MLS143812T-65)
- ☐ 1/4 x 3/8 x 100' / 1/2" Lineset [Twin-Tube Insulation] (MPLS385812T-10)

¹Requires MAC-333IF-E ²Allows MSZ-EF indoor units to connect to an MA controller

Specifications are subject to change without notice.

SPECIFICATIONS:

Rated Capacity*		
Cooling* ¹	Btu/h / W	12,000
Heating at 47° F* ²	Btu/h / W	14,400

Rating Conditions per AHRI Standard:

*¹ Cooling | Indoor: 80° F (27° C)DB / 67° F (19° C)WB ; Outdoor: 95° F (35° C)DB / 75° F (24° C)WB

*² 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

For data on specific indoor units (all ducted, all non-ducted, and both ducted and non-ducted) combinations, see the Multi-zone Outdoor Unit Technical and Service Manual.

Electrical Power Requirements	208 / 230V, 1-Phase, 60 Hz	
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Minimum Circuit Ampacity (MCA)	A	1
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Blower Motor (ECM)	F.L.A.	0.67
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Blower Motor Output	W	30
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Field Drainpipe Size O.D.	In.(mm)	5/8 (15)
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Airflow Rate (Lo - Med - Hi - Super Hi - Powerful)			
Cooling	DRY	CFM	141-162-222-293-371
	WET		121-140-191-252-319
Heating	DRY		141-162-219-413-448

Sound Pressure Level (Lo - Med - Hi - Super Hi - Powerful)		
Cooling	dB(A)	21-24-29-36-42
Heating		21-24-30-38-46

External Dimensions (H x W x D)	In.(mm)	11-3/4 x 34-13/16 x 7-11/16 (298 x 884 x 195)
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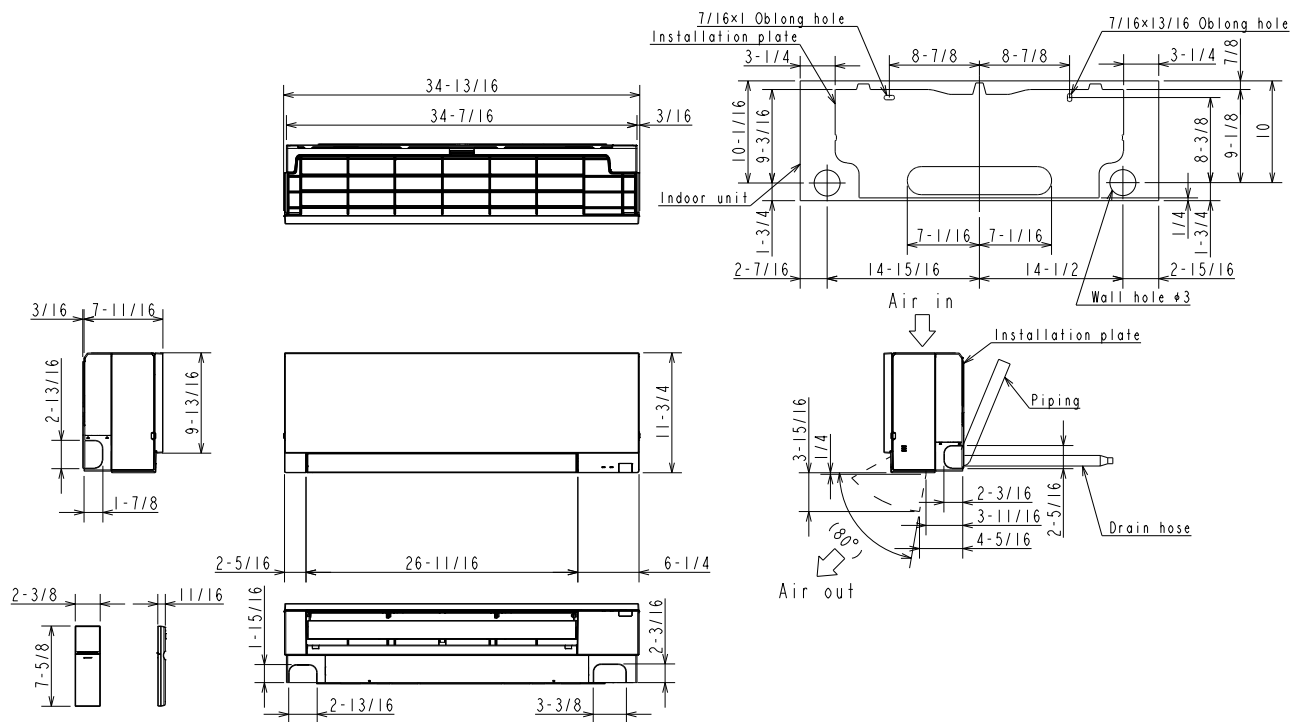
Net Weight	Lbs.(kg)	26 (11)
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External Finish	Munsell 3.7PB 2.0/0.1	
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Refrigerant Piping (Flared)		
Liquid (High Pressure)	In.(mm)	1/4 (6.35)
Gas (Low Pressure)		3/8 (9.52)

DIMENSIONS: MSZ-EF12NAW-U1

Unit: inch



MSZ-EF09/12NA

Piping	Insulation	Ø1-7/16 O.D
	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 Connected part Ø5/8 O.D active length 15-3/8

Note: Extension pipe size refer to the specifications table.