M-SERIES

SUBMITTAL DATA: MFZ-KJ12NA-U1

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



Job Name:	
System Reference:	Date:





Wireless Remote Controller

ACCESSORIES:

Indoor Unit

- □ Condensate Pump (BlueDiamond X87-711/721; 115/230V)
- □ Condensate Pump (Sauermann SI30-115/230; 115/230V)
- □ Anti-Allergy Enzyme Filter (MAC-408FT-E)
- □ Platinum Catalyst Deodorizing Filter (MAC-308FT-E)
- □ Drain Pan Level Sensor (DPLS2)

Controls

- □ Wireless Controller (MHK1)
- □ Wired Remote Controller PAR-32MAA (Requires MAC-333IF-E)
- □ Wireless Interface for kumo cloud™ (PAC-WHS01WF-E)
- □ Thermostat Interface (PAC-US444CN-1)

SPECIFICATIONS:

Heating

Rated Capacity*		
Cooling ¹	Btu/h / W	12,000
Heating at 47° F ²	Btu/h / W	13,000

- 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 MXZ Technical and Service Manual.

Applications should be restricted to comfort cooling only: equipment cooling applications are not

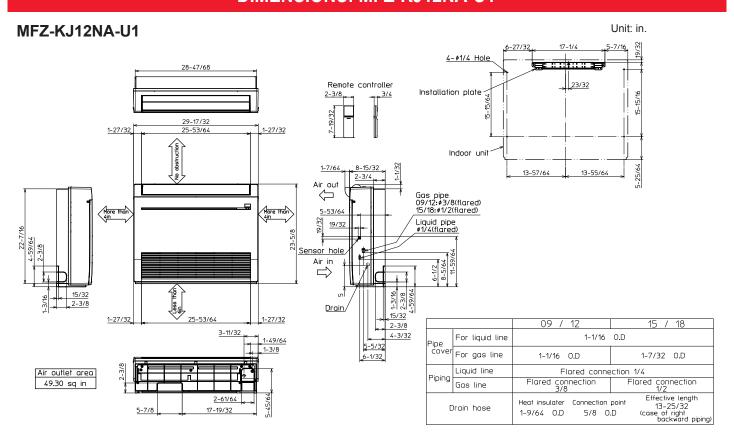
Applications should be restricted to comfort cooling only; equipment cooling applications are not recommended for low ambient temperature conditions.					
Electrical Power Requirements 208 / 230		208 / 23	0V, 1-Phase, 60 Hz		
Minimum Cir Ampacity (M		A 1			
Blower Motor	or (ECM) F.L.A. 0.62				
Blower Motor Output W		W	30		
Field Drainpipe Size O.D. In.(mm)		In.(mm)	5/8 (15)		
Airflow Rate	(Quiet - Lo - N	1ed - Hi - S	Super Hi)		
Cooling	DRY		138-173-208-251-275		
Cooling	Cooling		117-147-177-213-234		
Heating DRY			138-159-180-219-343		
Sound Pressure Level (Quiet - Lo - Med - Hi - Super Hi)					
Cooling		dB(A)	21-25-30-34-38		
		uD(A)			

Unit Dimensions (H x W x D)	In.(mm)	23-5/8 x 29-17/32 x 8-15/32 (600 x 750 x 215)		
Package Dimensions (H x W x D)	In.(mm)	27-3/4 x 32-3/4 x 12 (693 x 816 x 275)		
Unit/Package Weight				
Unit	Lbs.(kg)	33 (15)		
Package	Lbs.(kg)	41 (18.5)		
External Finish	Munsell 1.0Y 9.2 / 0.2			

21-24-27-32-41

External Finish	Munsell 1.0Y 9.2 / 0.2		
Refrigerant Piping (Flared)			
Liquid (High Pressure)	In (mm)	1/4 (6.35)	
Gas (Low Pressure)	In.(mm)	3/8 (9.52)	

DIMENSIONS: MFZ-KJ12NA-U1





1340 Satellite Boulevard. Suwanee, GA 30024 Toll Free: 800-433-4822 www.mehvac.com







M-SERIES

SUBMITTAL DATA: MFZ-KJ18NA-U1

18,000 BTU/H WALL-MOUNTED INDOOR UNIT FOR MXZ-C MULTI-ZONE HEAT-PUMP SYSTEMS



Job Name: System Reference: Date:



Indoor Unit: MFZ-KJ18NA-U1

Wireless Remote Controller

ACCESSORIES:

Indoor Unit

- □ Condensate Pump (BlueDiamond X87-711/721; 115/230V)
- □ Condensate Pump (Sauermann SI30-115/230; 115/230V)
- □ Anti-Allergy Enzyme Filter (MAC-408FT-E)
- □ Platinum Catalyst Deodorizing Filter (MAC-308FT-E)
- □ Drain Pan Level Sensor (DPLS2)

Controls

- □ Wireless Controller (MHK1)
- □ Wired Remote Controller PAR-32MAA (Requires MAC-333IF-E)
- □ Wireless Interface for kumo cloud™ (PAC-WHS01WF-E)
- □ Thermostat Interface (PAC-US444CN-1)

SPECIFICATIONS:

Rated Capacity*		
Cooling ¹	Btu/h / W	17,000
Heating at 47° F ²	Btu/h / W	21,000

- 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

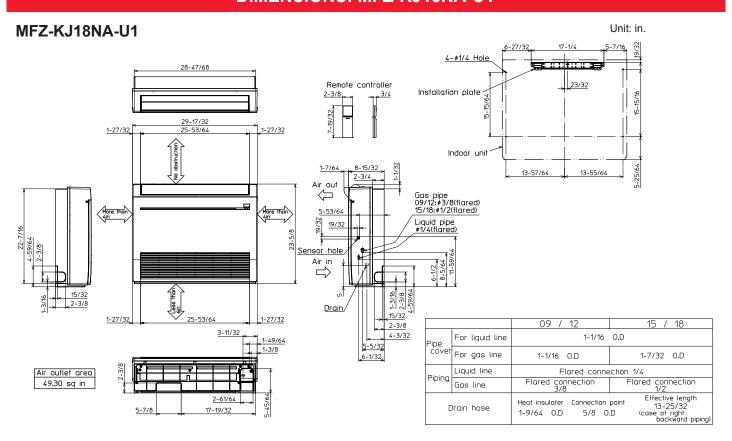
For data on specific indoor units (all ducted, all non-ducted, and both ducted and non-ducted) combinations, see the MXZ Technical and Service Manual.

Applications should be restricted to comfort cooling only; equipment cooling applications are not recommended for low ambient temperature conditions.				
Electrical Power Requirements 208 / 230V, 1-Phase, 60 Hz			0V, 1-Phase, 60 Hz	
Minimum Circuit Ampacity (MCA)		A 1		
Blower Motor	(ECM)	FLA. 0.72		
Blower Motor Output W		W	40	
Field Drainpipe Size O.D.		In.(mm)	5/8 (15)	
Airflow Rate	(Quiet - Lo - N	1ed - Hi - S	Super Hi)	
Cooling	DRY		198-237-282-328-374	
Cooling	Cooling		168-201-240-279-318	
Heating DRY			212-254-290-325-470	
Sound Pressure Level (Quiet - Lo - Med - Hi - Super Hi)				
Cooling		-ID(A)	28-31-36-40-43	
		dB(A)		

	dB(A)			
Heating	UD(A)	29-34-36-39-49		
Unit Dimensions (H x W x D)	In.(mm)	23-5/8 x 29-17/32 x 8-15/32 (600 x 750 x 215)		
Package Dimensions (H x W x D)	In.(mm)	27-3/4 x 32-3/4 x 12 (693 x 816 x 275)		
Unit/Package Weight				
Unit	Lbs.(kg)	33 (15)		
Package	Lbs.(kg)	41 (18.5)		
External Finish	Munsell 1.0Y 9.2 / 0.2			

External Finish	Munsell 1.0Y 9.2 / 0.2		
Refrigerant Piping (Flared)			
Liquid (High Pressure)	In (mm)	1/4 (6.35)	
Gas (Low Pressure)	In.(mm)	1/2 (12.7)	

DIMENSIONS: MFZ-KJ18NA-U1





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MXZ-3C24NAHZ3 2-TON MULTI-ZONE INVERTER HEAT-PUMP SYSTEM



Job	Na	me	
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System Reference: Date:



FEATURES

- Variable speed INVETER-driven compressor
- · Built-in base pan heater
- Quiet outdoor unit operation as low as 54 dB(A)
- · High pressure protection
- · Compressor thermal protection
- Compressor overcurrent detection
- Fan motor overheating/voltage protection
- Hyper-heating performance offers 100% heating capacity at 5°F and 90% heating capacity at -13°F
- ENERGY STAR® certified (non-ducted)

SPECIFICATIONS: MXZ-3C24NAHZ3

	Maximum Capacity	BTU/H	23,600 // 23,600 // 23,600
	Rated Capacity	BTU/H	22,000 // 22,800 // 23,600
	Minimum Capacity	BTU/H	12,600 // 12,600 // 12,600
Cooling ¹ (Non-Ducted // Mix // Ducted)	Maximum Power Input	W	3,770 // 3,770 // 3,770
	Rated Power Input	W	1,630 // 1,995 // 2,360
	Power Factor (208V, 230V)	%	98.5, 98.5 // 98.5, 98.5 // 98.5, 98.5
	Maximum Capacity	BTU/H	30,600 // 30,600 // 30,600
	Rated Capacity	BTU/H	25,000 // 30,000 // 30,000
Heating at 47°F2 (Non Dusted // Mix //		BTU/H	· · · · · · · · · · · · · · · · · · ·
Heating at 47°F ² (Non-Ducted // Mix // Ducted)	Minimum Capacity		11,400 // 11,400 // 11,400
240.04)	Maximum Power Input	W	4,540 // 4,540 // 4,540
	Rated Power Input	%	1,725 // 1,809 // 1,871
	Power Factor (208V, 230V)		97.3, 97.3 // 97.6, 97.4 // 97.4, 97.6
Harting at 47952 (Nov. Deceted // Min. //	Maximum Capacity	BTU/H	25,000 // 24,800 // 24,600
Heating at 17°F³ (Non-Ducted // Mix // Ducted)	Rated Capacity	BTU/H	14,000 // 14,000 // 14,000
Ducked)	Maximum Power Input	W	3,557 // 3,671 // 3,795
	Rated Power Input	W	1,622 // 1,629 // 1,635
Heating at 5°F4 (Non-Ducted // Mix //	Maximum Capacity	BTU/H	25,000 // 24,800 // 24,600
Ducted)	Maximum Power Input	W	3,760 // 3,980 // 4,200
	SEER		19.0 // 17.2 // 15.5
	EER ¹		13.5 // 11.7 // 10.0
	HSPF (IV)		10.0 // 9.5 // 9.0
Efficiency (Non-Ducted // Mix // Ducted)	COP at 47°F ²		4.25 // 4.02 // 3.8
	COP at 17°F at Maximum Capacity ³		2.06 // 1.95 // 1.9
	COP at 5°F at Maximum Capacity ⁴		1.95 // 2.11 // 1.72
	ENERGY STAR® Certified		Yes // No // No
	Electrical Power Requirements	Voltage, Phase, Frequency	208/230, 1, 60
	Guaranteed Voltage Range	V AC	187-253
	Voltage: Indoor - Outdoor, S1-S2	V AC	208/230
	Voltage: Indoor - Outdoor, S2-S3	V DC	24
Electrical	Short-circuit Current Rating (SCCR)	kA	5
	Recommended Fuse/Breaker Size	Α	40
	Recommended Wire Size	AWG	14
	Minimum Circuit Ampacity	A	30.5
	Maximum Overcurrent Protection	Α	40
	Fan Motor Full Load Amperage	A	2.43
	Airflow Rate (Cooling / Heating)	CFM	2,150 / 2,550
	Refrigerant Control		LEV
	Defrost Method		Reverse Cycle
	Heat Exchanger Type		Plate fin coil
	Sound Pressure Level, Cooling ¹	dB(A)	54
	Sound Pressure Level, Heating ²	dB(A)	58
	Compressor Type	(')	DC INVERTER-driven Twin Rotary
	Compressor Model		MNB33FBTMC-L
	Compressor Rated Load Amps	Α	20
	Compressor Locked Rotor Amps	A	28.8
Outdoor unit	Compressor Oil Type // Charge	OZ.	FV50S // 37.2
	Base Pan Heater	52 .	Built-in
	Bass : an riodioi	W: In. [mm]	37-13/32 [950]
	Unit Dimensions	D: In. [mm]	13 [330]
	Sin Dinionalona	H: In. [mm]	41-17/64 [1,048]
		W: In. [mm]	41-3/8 [1,050]
	Package Dimensions	D: In. [mm]	17-3/8 [440]
	i denage Dimensions	H: In. [mm]	46-3/4 [1,190]
	Unit Weight		
	Package Weight	Lbs.[kg] Lbs.[kg]	189 [86] 212 [96]
	Cooling Intake Air Temp (Maximum / Minimum ^{-A})	°FDB	115 / 14
Outdoor unit operating temperature	Cooling Intake Air Temp (Maximum / Minimum ^) Cooling Thermal Lock-out / Re-start Temperatures	°FDB	
Outdoor unit operating temperature range			10.4 / 14
·-··g-	Heating Intake Air Temp (Maximum / Minimum)	°FWB	65 / -13
	Heating Thermal Lock-out / Re-start Temperatures	°FDB	-18 / -14 8.0, 13.0
Refrigerant	Charge Charge Pining Langth	Lbs, oz	
Refrigerant	Charge Chargeless Piping Length Additional Refrigerant Charge Per Additional Piping Length	Ft. [m] oz./Ft. [g/m]	98.0 [30.0] 0.216 [20]

Conditions

NOTES: AHRI Rated Conditions (Rated data is determined at a fixed compressor speed) ¹Cooling (Indoor // Outdoor) °F
²Heating at 47°F (Indoor // Outdoor) °F
³Heating at 17°F (Indoor // Outdoor) °F

80 DB, 67 WB // 95 DB, 75 WB 70 DB, 60 WB // 47 DB, 43 WB 70 DB, 60 WB // 17 DB, 15 WB

⁴Heating at 5°F (Indoor // Outdoor) 70 DB, 60 WB // 5 DB, 4 WB

For actual capacity performance based on indoor unit type and number of indoor units connected, please refer to MXZ Operational Performance.

Although the maximum connectable capacity is 130%, the outdoor unit cannot provide more than 100% of the rated capacity. Please utilize this over capacity capability for load shedding or applications where it is known that all connected units will NOT be operating at the same time.

^{&#}x27;Applications should be restricted to comfort cooling only; equipment cooling applications are not recommended for low ambient temperature conditions. 'A 5°F DB - 115°F DB when optional wind baffles are installed

SPECIFICATIONS: MXZ-3C24NAHZ3

	Maximum Number of Connected IDU		3
Indoor unit connection	Minimum Number of Connected IDU		2
Indoor driit connection	Minimum connected capacity	BTU/H	12,000
	Maximum connected capacity	BTU/H	27,000
Piping	Liquid Pipe Size O.D. (Flared)	In.[mm]	A,B,C: 1/4 [A,B,C: 6.35]
	Gas Pipe Size O.D. (Flared)	In.[mm]	A: 1/2; B,C: 3/8 [A: 12.72; B,C: 9.52]
	Total Piping Length	Ft. [m]	230 [70]
	Maximum Height Difference, ODU above IDU	Ft. [m]	49 [15]
	Maximum Height Difference, ODU below IDU	Ft. [m]	49 [15]
	Farthest Piping Length from ODU to IDU	Ft. [m]	82 [25]
	Maximum Number of Bends for IDU		70

NOTES: AHRI Rated Conditions (Rated data is determined at a fixed compressor speed)

¹Cooling (Indoor // Outdoor) °F ²Heating at 47°F (Indoor // Outdoor) °F ³Heating at 17°F (Indoor // Outdoor) °F

80 DB, 67 WB // 95 DB, 75 WB 70 DB, 60 WB // 47 DB, 43 WB 70 DB, 60 WB // 17 DB, 15 WB

4Heating at 5°F (Indoor // Outdoor)

°F 70 DB, 60 WB // 5 DB, 4 WB

For actual capacity performance based on indoor unit type and number of indoor units connected, please refer to MXZ Operational Performance.

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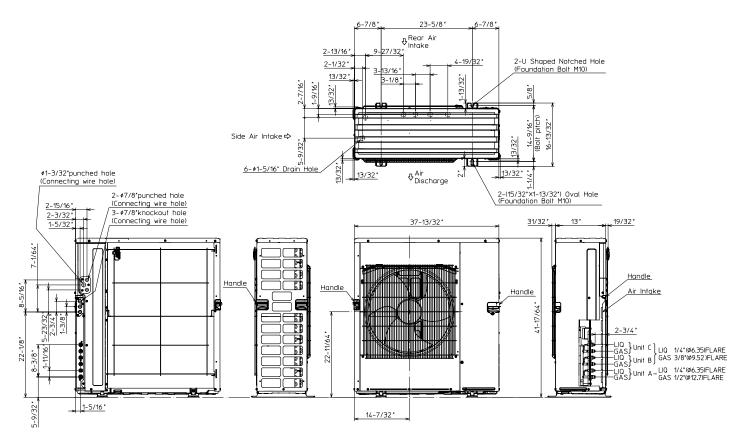
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OUTDOOR UNIT ACCESSORIES: MXZ-3C24NAHZ3

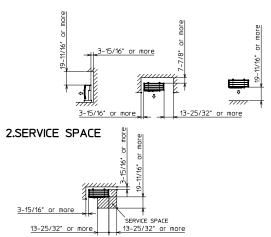
Air Outlet Guide	Air Outlet Guide (1 Piece)	PAC-SH96SG-E
Ball Valve	Refrigeration Ball Valve - 1/2"	BV12FFSI2
	Refrigeration Ball Valve - 1/4"	BV14FFSI2
	Refrigeration Ball Valve - 3/8"	BV38FFSI2
	Refrigeration Ball Valve - 5/8"	BV58FFSI2
Drain Socket	Drain Socket	PAC-SG60DS-E
Hail Guards	Hail Guard	HG-A1
M-NET Converter	M-NET Converter	PAC-IF01MNT-E
Mounting Pad	Condensing Unit Mounting Pad: 16" x 36" x 3"	ULTRILITE1
	Outdoor Unit 3-1/4 inch Mounting Base (Pair) - Plastic	DSD-400P
Port Adapter	Adaptor: 1/2" x 3/8"	MAC-A455JP-E
	Adaptor: 1/2" x 5/8"	MAC-A456JP-E
	Adaptor: 3/8" x 1/2"	MAC-A454JP-E
	Adaptor: 3/8" x 5/8"	PAC-SG76RJ-E
Stand	18" Single Fan Stand	QSMS1801M
	24" Single Fan Stand	QSMS2401M
	Condenser Wall Bracket	QSWB2000M-1
	Condenser Wall Bracket - Stainless Steel Finish	QSWBSS
	Outdoor Unit Stand — 12" High	QSMS1201M

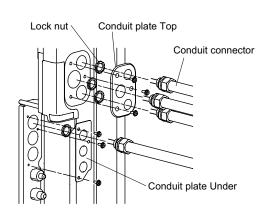
OUTDOOR UNIT DIMENSIONS: MXZ-3C24NAHZ3

Unit: inch (mm)



1.FREE SPACE





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