M-SERIES

SUBMITTAL DATA: MFZ-KJ09NA-U1

9,000 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:

Rated Capacity*		
Cooling ¹	Btu/h / W	9,000
Heating at 47° F ²	Btu/h / W	11,000

- 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

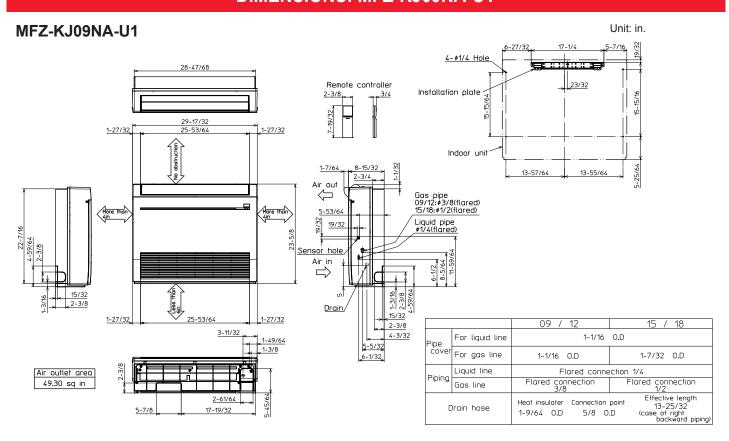
For data on specific indoor units (all ducted, all non-ducted, and both ducted and non-ducted) combinations, see the MXZ Technical and Service Manual.

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		
Minimum Cir Ampacity (M		А	1.0	
Blower Motor	(ECM)	F.L.A.	0.62	
Blower Motor Output		W	30	
Field Drainpipe Size O.D.		In.(mm)	.(mm) 5/8 (15)	
Airflow Rate	Airflow Rate (Quiet - Lo - Med - Hi - Super Hi)			
Cooling	DRY		138-173-208-251-275	
WET Heating DRY		CFM	117-147-177-213-234	
			138-159-180-219-343	
Sound Pressure Level (Quiet - Lo - Med - Hi - Super Hi)				
Cooling			21-25-30-34-38	

Sound Pressure Level (Quiet - Lo - Med - Hi - Super Hi)			
Cooling	4D(A)	21-25-30-34-38	
Heating	dB(A)	21-24-27-32-41	
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		

LAternal Fillion	Mulisell	1.01 9.27 0.2		
Refrigerant Piping (Flared)				
Liquid (High Pressure)	In ()	1/4 (6.35)		
Gas (Low Pressure)	In.(mm)	3/8 (9.52)		

DIMENSIONS: MFZ-KJ09NA-U1





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







MXZ-3C30NAHZ3 2.5-TON MULTI-ZONE INVERTER HEAT-PUMP SYSTEM



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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 88% heating capacity at -13°F
- ENERGY STAR® certified (non-ducted)

SPECIFICATIONS: MXZ-3C30NAHZ3

	Maximum Capacity	BTU/H	23,600 // 23,600 // 23,600
	Rated Capacity	BTU/H	28,400 // 27,800 // 27,400
	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	2,272 // 2,467 // 2,661
	Power Factor (208V, 230V)	%	98.7, 98.7 // 98.7, 98.7 // 98.7, 98.7
	Maximum Capacity	BTU/H	36,000 // 30,600 // 30,600
	Rated Capacity	BTU/H	28,600 // 28,000 // 27,600
Heating at 47°F² (Non-Ducted // Mix //	Minimum Capacity	BTU/H	
Ducted)	Maximum Power Input	W W	11,400 // 11,400 // 11,400
	Rated Power Input	W	4,540 // 4,540 // 4,540
	·	%	2,096 // 2,142 // 2,187
	Power Factor (208V, 230V)		97.8, 97.8 // 97.9, 97.9 // 97.9, 97.9 28,600 // 28,100 // 27,600
Heating at 17°F3 (Non-Ducted // Mix //	Maximum Capacity Rated Capacity	BTU/H BTU/H	18,000 // 17,750 // 16,500
Ducted)	. ,	W W	
<i>Duolou</i>)	Maximum Power Input	W	4,192 // 4,223 // 4,258
Lieutine at 5054 (Nieu Douated // Nieu //	Rated Power Input		1,990 // 1,992 // 1,993
Heating at 5°F4 (Non-Ducted // Mix // Ducted)	Maximum Capacity	BTU/H	28,600 // 28,100 // 27,600
<i></i>	Maximum Power Input	W	4,290 // 4,495 // 4,700
	SEER		18.0 // 17.0 // 16.0
	EER¹		12.5 // 11.4 // 10.3
Efficiency (Non Dusted // Mix // Deceted)	HSPF (IV)		11.0 // 10.4 // 9.8
Efficiency (Non-Ducted // Mix // Ducted)	COP at 47°F²		4.0 // 3.85 // 3.7
	COP at 17°F at Maximum Capacity³		2.0 // 1.95 // 1.9
	COP at 5°F at Maximum Capacity⁴		1.95 // 1.91 // 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	Α	30.5
	Maximum Overcurrent Protection	Α	40
	Fan Motor Full Load Amperage	Α	2.43
	Airflow Rate (Cooling / Heating)	CFM	2,224 / 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
Outdoor unit	Compressor Locked Rotor Amps	Α	28.8
Cutabor unit	Compressor Oil Type // Charge	OZ.	FV50S // 37.2
	Base Pan Heater		Built-in
		W: In. [mm]	37-13/32 [950]
	Unit Dimensions	D: In. [mm]	13 [330]
		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]
		H: In. [mm]	46-3/4 [1,190]
	Unit Weight	Lbs.[kg]	189 [86]
	Package Weight	Lbs.[kg]	213 [97]
	Cooling Intake Air Temp (Maximum / Minimum*A)	°FDB	115 / 14
Outdoor unit operating temperature	Cooling Thermal Lock-out / Re-start Temperatures	°FDB	10.4 / 14
range	Heating Intake Air Temp (Maximum / Minimum)	°FWB	65 / -13
	Heating Thermal Lock-out / Re-start Temperatures	°FDB	-18 / -14
	Charge	Lbs, oz	8.0, 13.0
Refrigerant	Chargeless Piping Length	Ft. [m]	98.0 [30.0]
	Additional Refrigerant Charge Per Additional Piping Length	oz./Ft. [g/m]	0.216 [20]
NOTES:			• •

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

Conditions

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

^{&#}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

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.

SPECIFICATIONS: MXZ-3C30NAHZ3

	Maximum Number of Connected IDU	Maximum Number of Connected IDU	
Indoor unit connection	Minimum Number of Connected IDU	Minimum Number of Connected IDU	
	Minimum connected capacity	BTU/H	12,000
	Maximum connected capacity	BTU/H	36,000
	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]
Piping	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)

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4Heating at 5°F (Indoor // Outdoor)

°F 70 DB, 60 WB // 5 DB, 4 WB

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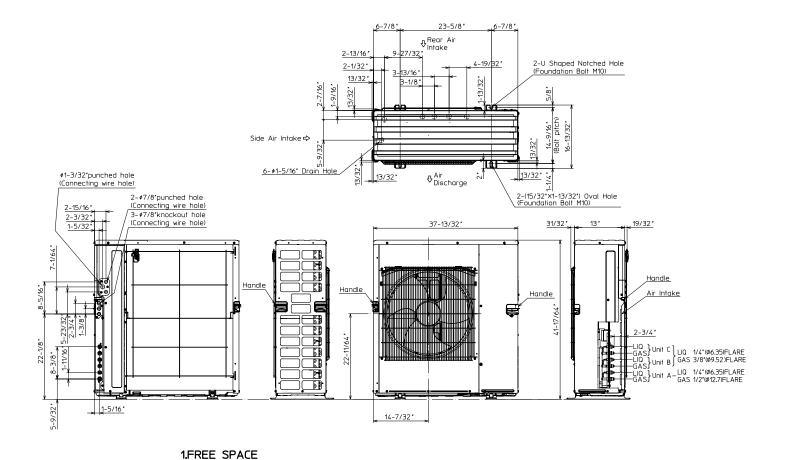
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OUTDOOR UNIT ACCESSORIES: MXZ-3C30NAHZ3

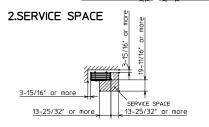
Air Outlet Guide	Air Outlet Guide (1 Piece)	PAC-SH96SG-E
	Refrigeration Ball Valve - 1/2"	BV12FFSI2
Ball Valve	Refrigeration Ball Valve - 1/4"	BV14FFSI2
Dali valve	Refrigeration Ball Valve - 3/8"	BV38FFSI2
	Refrigeration Ball Valve - 5/8"	BV58FFSI2
Drain Socket	Drain Socket	PAC-SG60DS-E
Hail Guards	Hail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

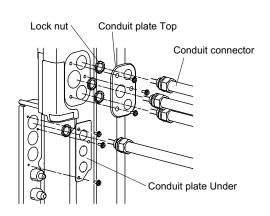
OUTDOOR UNIT DIMENSIONS: MXZ-3C30NAHZ3

Unit: inch (mm)



3-12/16° or more





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