

MXZ-2C20NAHZ3 1.5-TON MULTI-ZONE INVERTER HEAT-PUMP SYSTEM



Job Name:

System Reference:

Date:



FEATURES

- Variable speed INVERTER-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 93% heating capacity at -13°F
- ENERGY STAR® certified (non-ducted)

ENERGY STAR products are third-party certified by an EPA-recognized Certification Body.

Specifications are subject to change without notice.

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SPECIFICATIONS: MXZ-2C20NAHZ3

Cooling ¹ (Non-Ducted // Mix // Ducted)	Maximum Capacity	BTU/H	20,000 // 20,000 // 20,000
	Rated Capacity	BTU/H	18,000 // 19,000 // 20,000
	Minimum Capacity	BTU/H	12,600 // 12,600 // 12,600
	Maximum Power Input	W	2,680 // 2,680 // 2,680
	Rated Power Input	W	1,258 // 1,576 // 1,819
	Power Factor (208V, 230V)	%	97.9, 97.9 // 97.9, 97.9 // 97.9, 97.9
Heating at 47°F ² (Non-Ducted // Mix // Ducted)	Maximum Capacity	BTU/H	25,500 // 25,500 // 25,500
	Rated Capacity	BTU/H	22,000 // 22,000 // 22,000
	Minimum Capacity	BTU/H	11,400 // 11,400 // 11,400
	Maximum Power Input	W	3,650 // 3,650 // 3,650
	Rated Power Input	W	1,475 // 1,680 // 1,750
	Power Factor (208V, 230V)	%	97.3, 97.3 // 97.4, 97.4 // 97.5, 97.5
Heating at 17°F ³ (Non-Ducted // Mix // Ducted)	Maximum Capacity	BTU/H	22,000 // 22,000 // 22,000
	Rated Capacity	BTU/H	13,000 // 13,700 // 13,700
	Maximum Power Input	W	3,071 // 3,146 // 3,224
	Rated Power Input	W	1,322 // 1,519 // 1,588
Heating at 5°F ⁴ (Non-Ducted // Mix // Ducted)	Maximum Capacity	BTU/H	22,000 // 22,000 // 22,000
	Maximum Power Input	W	3,410 // 3,630 // 3,850
Efficiency (Non-Ducted // Mix // Ducted)	SEER SEER2		17.1 // 16.0 // 15.0 16.50 // - // -
	EER ¹ EER2 ¹		14.3 // 12.2 // 11.0 13.50 // - // -
	HSPF (IV) HSPF2 (IV)		10.0 // 9.6 // 9.5 9.2 // - // -
	COP at 47°F ²		4.37 // 3.84 // 3.69
	COP at 17°F at Maximum Capacity ³		2.1 // 2.05 // 2.0
	COP at 5°F at Maximum Capacity ⁴		1.89 // 1.78 // 1.67
	ENERGY STAR® Certified		Yes // No // No
Electrical	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
	Short-circuit Current Rating (SCCR)	kA	5
	Recommended Fuse/Breaker Size	A	40
	Recommended Wire Size	AWG	14
	Minimum Circuit Ampacity	A	29.5
	Maximum Overcurrent Protection	A	40
	Fan Motor Full Load Amperage	A	2.43
Outdoor unit	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	A	20
	Compressor Locked Rotor Amps	A	28.8
	Compressor Oil Type // Charge	oz.	FV50S // 37.2
	Base Pan Heater		Built-in
	Unit Dimensions	W: In. [mm]	37-13/32 [950]
		D: In. [mm]	13 [330]
		H: In. [mm]	41-17/64 [1,048]
	Package Dimensions	W: In. [mm]	41-3/8 [1,050]
		D: In. [mm]	17-3/8 [440]
		H: In. [mm]	46-3/4 [1,190]
	Unit Weight	Lbs.[kg]	187 [85]
	Package Weight	Lbs.[kg]	212 [96]
	Cooling Intake Air Temp (Maximum / Minimum ^A)	°FDB	115 / 14
	Cooling Thermal Lock-out / Re-start Temperatures	°FDB	10.4 / 14
	Heating Intake Air Temp (Maximum / Minimum)	°FWB	65 / -13
	Heating Thermal Lock-out / Re-start Temperatures	°FDB	-18 / -14
Refrigerant	Charge	Lbs, oz	8.0, 13.0
	Chargeless Piping Length	Ft. [m]	98.0 [30.0]
	Additional Refrigerant Charge Per Additional Piping Length	oz./Ft. [g/m]	0.216 [20]

NOTES:

AHRI Rated Conditions

(Rated data is determined at a fixed compressor speed)

¹Cooling (Indoor // Outdoor)

²Heating at 47°F (Indoor // Outdoor)

³Heating at 17°F (Indoor // Outdoor)

°F 80 DB, 67 WB // 95 DB, 75 WB

°F 70 DB, 60 WB // 47 DB, 43 WB

°F 70 DB, 60 WB // 17 DB, 15 WB

Conditions

⁴Heating at 5°F (Indoor // Outdoor)

°F 70 DB, 60 WB // 5 DB, 4 WB

*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-2C20NAHZ3

Indoor unit connection	Maximum Number of Connected IDU		2
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	Minimum connected capacity	BTU/H	12,000
	Maximum connected capacity	BTU/H	24,000
Piping	Liquid Pipe Size O.D. (Flared)	In.[mm]	A,B: 1/4 [A,B: 6.35]
	Gas Pipe Size O.D. (Flared)	In.[mm]	A,B: 3/8 [A,B: 9.52]
	Total Piping Length	Ft. [m]	164 [50]
	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		50

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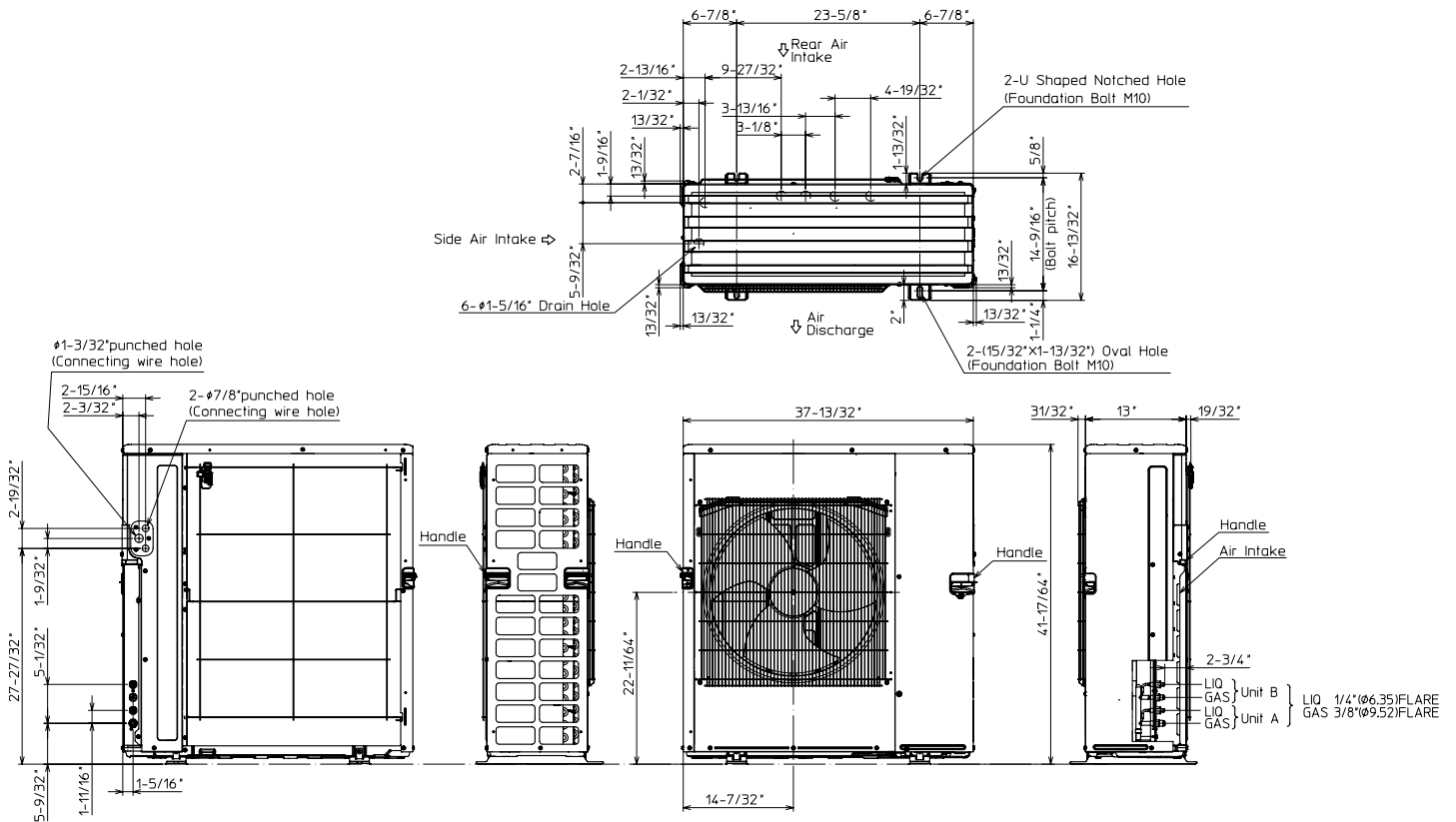
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OUTDOOR UNIT ACCESSORIES: MXZ-2C20NAHZ3

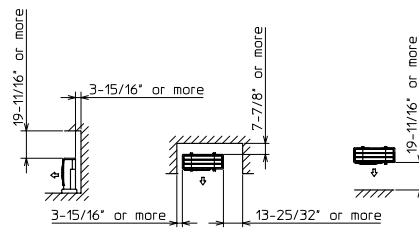
Air Outlet Guide	Air Outlet Guide (1 Piece)	<input type="checkbox"/> PAC-SH96SG-E
Ball Valve	Refrigeration Ball Valve - 1/2"	<input type="checkbox"/> BV12FFSI2
	Refrigeration Ball Valve - 1/4"	<input type="checkbox"/> BV14FFSI2
	Refrigeration Ball Valve - 3/8"	<input type="checkbox"/> BV38FFSI2
	Refrigeration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

OUTDOOR UNIT DIMENSIONS: MXZ-2C20NAHZ3

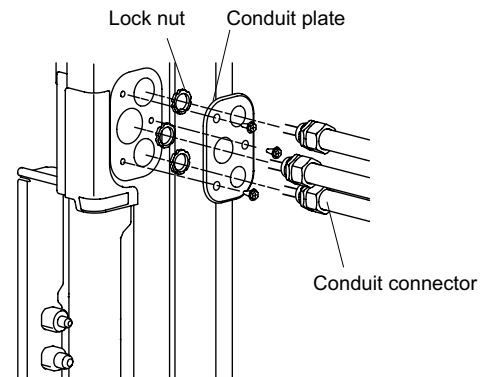
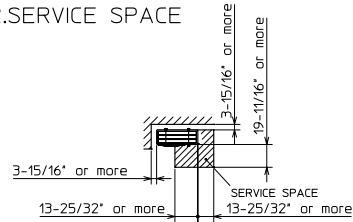
Unit: inch (mm)



1.FREE SPACE



2.SERVICE SPACE



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

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