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



Job Name:

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

SPECIFICATIONS: MXZ-2C20NAHZ3

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	Maximum Capacity	BTU/H	20,000 // 20,000 // 20,000
Cooling¹ (Non-Ducted // Mix // Ducted)	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
	Maximum Capacity	BTU/H	25,500 // 25,500 // 25,500
	Rated Capacity	BTU/H	22,000 // 22,000 // 22,000
Heating at 47°F2 (Non-Ducted // Mix //	Minimum Capacity	BTU/H	11,400 // 11,400 // 11,400
Ducted)	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°F³ (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°F4 (Non-Ducted // Mix //	Maximum Capacity	BTU/H	22,000 // 22,000 // 22,000
Ducted)	Maximum Power Input	W	3,410 // 3,630 // 3,850
·	SEER SEER2		17.1 // 16.0 // 15.0 16.50 // - // -
	EER SEER2		14.3 // 12.2 // 11.0 13.50 // - // -
	HSPF (IV) HSPF2 (IV)	10.0 // 9.6 // 9.5 9.2 // - // -	
Efficiency (Non-Ducted // Mix // Ducted)			4.37 // 3.84 // 3.69
Emiciency (Non-Ducted // Mix // Ducted)	COP at 47°F2		2.1 // 2.05 // 2.0
	COP at 17°F at Maximum Capacity ³		
	COP at 5°F at Maximum Capacity ⁴		1.89 // 1.78 // 1.67
	ENERGY STAR® Certified	Valtage Disses	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	29.5
	Maximum Overcurrent Protection	A	40
	Fan Motor Full Load Amperage	Α	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	
Outdoor unit	Compressor Rated Load Amps	A	20
	Compressor Locked Rotor Amps	A	28.8
	Compressor Oil Type // Charge	OZ.	FV50S // 37.2
	Base Pan Heater Unit Dimensions	M/s In Fr3	Built-in
		W: In. [mm]	37-13/32 [950]
		D: In. [mm]	13 [330]
		H: In. [mm]	41-17/64 [1,048]
		AAA In Fr 3	
	Parkers Diversions	W: In. [mm]	41-3/8 [1,050]
	Package Dimensions	D: In. [mm]	17-3/8 [440]
		D: In. [mm] H: In. [mm]	17-3/8 [440] 46-3/4 [1,190]
	Unit Weight	D: In. [mm] H: In. [mm] Lbs.[kg]	17-3/8 [440] 46-3/4 [1,190] 187 [85]
	Unit Weight Package Weight	D: In. [mm] H: In. [mm] Lbs.[kg] Lbs.[kg]	17-3/8 [440] 46-3/4 [1,190] 187 [85] 212 [96]
	Unit Weight Package Weight Cooling Intake Air Temp (Maximum / Minimum'^A)	D: In. [mm] H: In. [mm] Lbs.[kg] Lbs.[kg] °FDB	17-3/8 [440] 46-3/4 [1,190] 187 [85] 212 [96] 115 / 14
	Unit Weight Package Weight	D: In. [mm] H: In. [mm] Lbs.[kg] Lbs.[kg] °FDB °FDB	17-3/8 [440] 46-3/4 [1,190] 187 [85] 212 [96]
	Unit Weight Package Weight Cooling Intake Air Temp (Maximum / Minimum'^A)	D: In. [mm] H: In. [mm] Lbs.[kg] Lbs.[kg] °FDB	17-3/8 [440] 46-3/4 [1,190] 187 [85] 212 [96] 115 / 14
	Unit Weight Package Weight Cooling Intake Air Temp (Maximum / Minimum'^A) Cooling Thermal Lock-out / Re-start Temperatures	D: In. [mm] H: In. [mm] Lbs.[kg] Lbs.[kg] °FDB °FDB	17-3/8 [440] 46-3/4 [1,190] 187 [85] 212 [96] 115 / 14 10.4 / 14
Outdoor unit operating temperature range	Unit Weight Package Weight Cooling Intake Air Temp (Maximum / Minimum'^A) Cooling Thermal Lock-out / Re-start Temperatures Heating Intake Air Temp (Maximum / Minimum)	D: In. [mm] H: In. [mm] Lbs.[kg] Lbs.[kg] °FDB °FDB °FWB	17-3/8 [440] 46-3/4 [1,190] 187 [85] 212 [96] 115 / 14 10.4 / 14 65 / -13
	Unit Weight Package Weight Cooling Intake Air Temp (Maximum / Minimum'^A) Cooling Thermal Lock-out / Re-start Temperatures Heating Intake Air Temp (Maximum / Minimum) Heating Thermal Lock-out / Re-start Temperatures	D: In. [mm] H: In. [mm] Lbs.[kg] Lbs.[kg] °FDB °FDB °FDB °FDB	17-3/8 [440] 46-3/4 [1,190] 187 [85] 212 [96] 115 / 14 10.4 / 14 65 / -13 -18 / -14

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-2C20NAHZ3

Indoor unit connection	Maximum Number of Connected IDU	Maximum Number of Connected IDU	
	Minimum Number of Connected IDU	Minimum Number of Connected IDU	
	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	Maximum Number of Bends for IDU	

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

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.

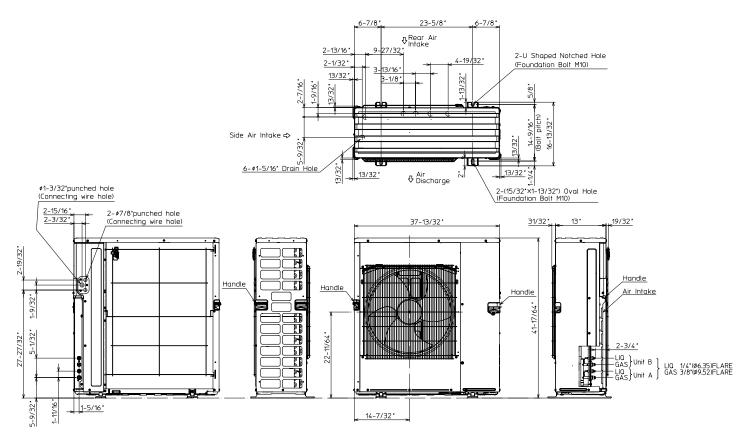
Although the maximum connectable capacity is 130%, the outdoor unit cannot provide more than 100% of the rated capacity. Please utilize this over capacity capability for load shedding or applications where it is known that all connected units will NOT be operating at the same time.

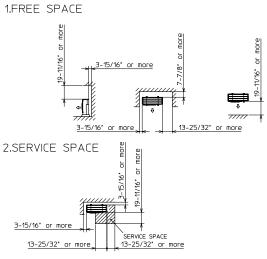
OUTDOOR UNIT ACCESSORIES: MXZ-2C20NAHZ3

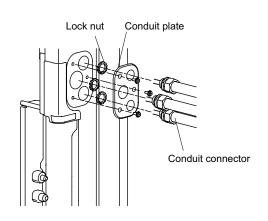
Air Outlet Guide (1 Piece)	□ PAC-SH96SG-E
Refrigeration Ball Valve - 1/2"	□ BV12FFSI2
Refrigeration Ball Valve - 1/4"	□ BV14FFSI2
Refrigeration Ball Valve - 3/8"	□ BV38FFSI2
Refrigeration Ball Valve - 5/8"	□ BV58FFSI2
Drain Socket	□ PAC-SG60DS-E
Hail Guard	□ HG-A1
M-NET Converter	□ PAC-IF01MNT-E
Condensing Unit Mounting Pad: 16" x 36" x 3"	□ ULTRILITE1
Outdoor Unit 3-1/4 inch Mounting Base (Pair) - Plastic	□ DSD-400P
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
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
	Refrigeration Ball Valve - 1/2" Refrigeration Ball Valve - 1/4" Refrigeration Ball Valve - 3/8" Refrigeration Ball Valve - 5/8" Drain Socket Hail Guard M-NET Converter Condensing Unit Mounting Pad: 16" x 36" x 3" Outdoor Unit 3-1/4 inch Mounting Base (Pair) - Plastic Adaptor: 1/2" x 3/8" Adaptor: 1/2" x 5/8" Adaptor: 3/8" x 1/2" Adaptor: 3/8" x 5/8" 18" Single Fan Stand Condenser Wall Bracket Condenser Wall Bracket - Stainless Steel Finish

OUTDOOR UNIT DIMENSIONS: MXZ-2C20NAHZ3

Unit: inch (mm)







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