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
	Rated Capacity	BTU/H	18,000 // 19,000 // 20,000
Cooling ¹ (Non-Ducted // Mix // Ducted)	Minimum Capacity	BTU/H	12,600 // 12,600 // 12,600
g (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
	Maximum Capacity	BTU/H	22,000 // 22,000 // 22,000
Heating at 17°F3 (Non-Ducted // Mix //	Rated Capacity	BTU/H	13,000 // 13,700 // 13,700
Ducted)	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 // - // -
	EER¹ EER2¹		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)	COP at 47°F ²		4.37 // 3.84 // 3.69
			2.1 // 2.05 // 2.0
	COP at 17°F at Maximum Capacity³ COP at 5°F at Maximum Capacity⁴		1.89 // 1.78 // 1.67
	ENERGY STAR® Certified	Veltara Dhara	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	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
Outdoor unit	Compressor Type		DC INVERTER-driven Twin Rotary
	Compressor Nodel		MNB33FBTMC-L
	·	A	20
	Compressor Rated Load Amps	A	28.8
	Compressor Locked Rotor Amps		
	Compressor Oil Type // Charge	OZ.	FV50S // 37.2
	Base Pan Heater Unit Dimensions	M/s In Co. 2	Built-in
		W: In. [mm]	37-13/32 [950]
		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	H: In. [mm] Lbs.[kg]	46-3/4 [1,190] 187 [85]
	Unit Weight Package Weight	H: In. [mm] Lbs.[kg] Lbs.[kg]	46-3/4 [1,190] 187 [85] 212 [96]
	Unit Weight	H: In. [mm] Lbs.[kg] Lbs.[kg] °FDB	46-3/4 [1,190] 187 [85] 212 [96] 115 / 14
	Unit Weight Package Weight	H: In. [mm] Lbs.[kg] Lbs.[kg]	46-3/4 [1,190] 187 [85] 212 [96]
	Unit Weight Package Weight Cooling Intake Air Temp (Maximum / Minimum'^A)	H: In. [mm] Lbs.[kg] Lbs.[kg] °FDB	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	H: In. [mm] Lbs.[kg] Lbs.[kg] °FDB °FDB	46-3/4 [1,190] 187 [85] 212 [96] 115 / 14 10.4 / 14
	Unit Weight Package Weight Cooling Intake Air Temp (Maximum / Minimum'^A) Cooling Thermal Lock-out / Re-start Temperatures Heating Intake Air Temp (Maximum / Minimum)	H: In. [mm] Lbs.[kg] Lbs.[kg] °FDB °FDB °FWB	46-3/4 [1,190] 187 [85] 212 [96] 115 / 14 10.4 / 14 65 / -13
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) Heating Thermal Lock-out / Re-start Temperatures	H: In. [mm] Lbs.[kg] Lbs.[kg] °FDB °FDB °FWB	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		2
	Minimum Number of Connected IDU		2
	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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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

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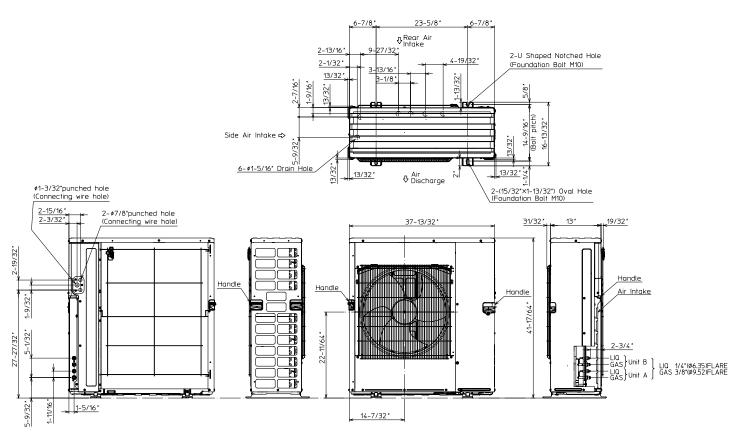
Applications should be restricted to comfort cooling only; equipment cooling applications are not recommended for low ambient temperature conditions. A 5°F DB - 115°F DB when optional wind baffles are installed

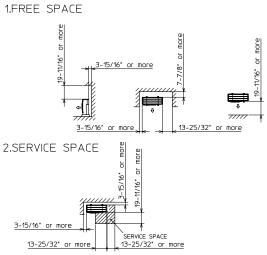
OUTDOOR UNIT ACCESSORIES: MXZ-2C20NAHZ3

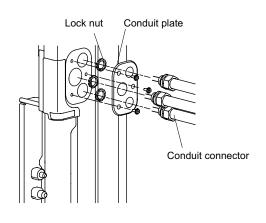
PAC-SH96SG-E
BV12FFSI2
BV14FFSI2
BV38FFSI2
BV58FFSI2
PAC-SG60DS-E
HG-A1
PAC-IF01MNT-E
ULTRILITE1
DSD-400P
MAC-A455JP-E
MAC-A456JP-E
MAC-A454JP-E
PAC-SG76RJ-E
QSMS1801M
QSMS2401M
QSWB2000M-1
QSWBSS
QSMS1201M

OUTDOOR UNIT DIMENSIONS: MXZ-2C20NAHZ3

Unit: inch (mm)







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