MXZ-SM36NLHZ 36,000 BTU/H HYPER HEAT PUMP OUTDOOR UNIT



Job Name:

System Reference: Date:



GENERAL FEATURES

- Compatible with M- and P-Series and CITY MULTI® indoor units (branch box required for connection with M- and P-Series)
- Compressor overcurrent detection
- Compressor thermal protection
- · Fan motor overheating/voltage protection
- · High pressure protection
- INVERTER-driven compressor: Compressor generates the precise capacity needed to maintain a temperature set point.
- · Quiet operation: Outdoor units are as quiet as a typical conversation, and most indoor units are whisper quiet.
- Seacoast protection: Seacoast protection on heat exchanger and base panel (rated for 2,000 hrs. in accordance with ASTM B117 testing)
- · Thermal Differential 1°F

Specifications			System
	Unit Type		MXZ-SM36NLHZ
Cooling at 95F¹ (Non-Ducted // Mixed // Ducted)	Maximum Capacity	Btu/h	36,000 // 36,000 // 36,000
	Rated Capacity	Btu/h	36,000 // 36,000 // 36,000
	Minimum Capacity	Btu/h	13,000 // 13,000 // 13,000
	Maximum Power Input	W	2,485 // 2,835 // 3,305
	Rated Power Input	W	2,485 // 2,835 // 3,305
	Power Factor (208V)	%	98.30 // 98.30 // 98.30
	Power Factor (230V)	%	98.30 // 98.30 // 98.30
	Maximum Capacity	Btu/h	42,000 // 42,000 // 42,000
	Rated Capacity	Btu/h	42,000 // 42,000 // 42,000
	Minimum Capacity	Btu/h	12,600 // 12,600 // 12,600
Heating at 47F2 (Non-Ducted // Mixed // Ducted)	Maximum Power Input	W	3,080 // 3,330 // 3,620
	Rated Power Input	W	3,080 // 3,330 // 3,620
	Power Factor (208V)	%	98.30 // 98.30 // 98.30
	Power Factor (230V)	%	98.30 // 98.30 // 98.30
	Maximum Capacity	Btu/h	42,000 // 42,000 // 42,000
	Rated Capacity	Btu/h	32,600 // 29,600 // 26,600
Heating at 17F ³ (Non-Ducted // Mixed // Ducted)	Maximum Power Input	W	6,035 // 5,955 // 6,840
	Rated Power Input	W	3,415 // 3,190 // 2,935
Heating at 5F ⁴ (Non-Ducted // Mixed // Ducted)	Maximum Capacity	Btu/h	42,000 // 42,000 // 42,000
	Maximum Power Input	W	6,155 // 6,415 // 6,620
	Maximum Capacity	Btu/h	42,000 // 42,000 // 42,000
Heating at -13F ⁸ (Non-Ducted // Mixed // Ducted)	Maximum Power Input	W	8,670 // 8,670 // 8,670
Efficiency (Non-Ducted // Mixed // Ducted)	SEER21		23 // 20.35 // 17.70
	EER21		14.50 // 12.70 // 10.90
	HSPF2 (IV) ²		12 // 11.25 // 10.50
	COP at 47°F ²		4 // 3.70 // 3.40
	COP at 17°F at Maximum Capacity ³		2.04 // 1.92 // 1.80
	COP at 5°F at Maximum Capacity ⁴		2 // 1.92 // 1.86
	ENERGY STAR® Certified		Yes // Yes // No

- NOTES

 **Cooling at 95°F (Indoor: 80°F DB, 67°F WB // Outdoor: 95°F DB, 75°F WB)

 **Heating at 47°F (Indoor: 70°F DB, 60°F WB // Outdoor: 47°F DB, 43°F WB)

 **Heating at 17°F (Indoor: 70°F DB, 60°F WB // Outdoor: 57°F DB, 15°F WB)

 **Heating at 57°F (Indoor: 70°F DB, 60°F WB // Outdoor: 57°F DB, 48°F WB)

 **Heating at -13°F (Indoor: 70°F DB, 60°F WB // Outdoor: -13°F DB, -14°F WB)

 **Applications should be restricted to comfort cooling only; equipment cooling applications are not recommended for low ambient temperature conditions.

 **A Maximum connected units reduced when PLA connected. Refer to manual for details.

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- B Branch box should be placed within the level between the outdoor unit and indoor units

• C 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 Operating Temperature Range (Cooling Thermal Lock-out / Re-start Temperatures; Heating Thermal Lock-out / Re-start Temperatures):

 *System cuts out in heating mode and automatically restarts at these temperatures

SPECIFICATIONS: MXZ-SM36NLHZ

Specifications Unit Type			System MXZ-SM36NLHZ
	Guaranteed Voltage Range	VAC	198 - 253
	Voltage: Indoor - Outdoor, S1-S2	VAC	230
	Short-circuit Current Rating (SCCR)	kA	5
Electrical	Recommended Fuse/Breaker Size if Branch Box Powered by Outdoor Unit	A	45
	Recommended Fuse/Breaker Size without Branch Box or Branch Box Powered Separate	A	40
	MCA if Branch Box Powered by Outdoor Unit	A	51
	MOCP if Branch Box Powered by Outdoor Unit	A	86
	MCA without Branch Box or Branch Box Powered Separate	A	45
	MOCP without Branch Box or Branch Box Powered Separate	A	80
	Fan Motor Output	W	200+200
	Defrost Method	**	Reverse Cycle
	Blue Fin Heat Exchanger Coating		Yes
	Sound Pressure Level, Cooling ¹	dB (A)	49
Outdoor Unit		· ' /	53
	Sound Pressure Level, Heating ²	dB (A)	
	Compressor Type		Twin Rotary
	Compressor Model		MRK53FFJMC-L
	Compressor Motor Output	kW	2.7
	Compressor Oil Type // Charge	Type // oz	RM68EH // 78
	External Finish Color		Munsell 3Y 7.8/1.1
	Base Pan Heater		Built-in
	Unit Dimensions (W x D x H)	inch [mm] inch [mm] inch [mm]	41-11/32 [1,050] 13 [330] 52-11/16 [1,338]
	Package Dimensions (W x D x H)	inch [mm] inch [mm] inch [mm]	43 [1,090] 18 [450] 58-5/16 [1,480]
	Unit Weight	lbs [kg]	283 [128]
	Package Weight	lbs [kg]	309 [140]
	Cooling Intake Air Temp (Maximum / Minimum ^c)	°FDB	115 / 23
ODU Operating Temp. Range	Cooling Thermal Lock-out / Re-start Temperatures	°FDB	N/A / N/A
	Heating Intake Air Temp (Maximum / Minimum)	°FDB	70 / -13
	Heating Thermal Lock-out / Re-start Temperatures**	°FDB	-24 / -14
Refrigerant	Туре		R454B
	Pre-Charged Refrigerant Amount	lbs, oz	6, 10
IDU Connection	Maximum Number of Connected IDU with Branch Box ^A	,	4
	Maximum Number of Connected IDU without Branch Box		11
	Minimum Connected Capacity with Branch Box	Btu/h	12,000
	Minimum Connected Capacity with Branch Box	Btu/h	18,000
	Maximum connected capacity without Branch Box	Btu/h	46,800
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	Liquid Pipe Size O.D. (Flared)	inch [mm]	3/8 [9.52]
	Gas Pipe Size O.D. (Flared)	inch [mm]	5/8 [15.88]
	Total Piping Length when using Branch Box	ft [m]	492 [150]
	Total Piping Length without Branch Box	ft [m]	492 [150]
	Maximum Height Difference'B, ODU above IDU	ft [m]	164 [50]
	Maximum Height Difference ^{-B} , ODU below IDU	ft [m]	131 [40]
ining	Maximum Height Difference'B, between branch boxes	ft [m]	39 [12]
Piping	Maximum Height Difference between IDU and IDU without branch box	ft [m]	49 [15]
	Maximum Piping Length between ODU and Branch Box	ft [m]	180 [55]
	Farthest Piping Length from ODU to IDU with Branch Box	ft [m]	262 [80]
	Farthest Piping Length from ODU to IDU without Branch Box	ft [m]	262 [80]
	Farthest Piping Length after Branch Box	ft [m]	82 [25]
	Total Piping Length between Branch Boxes and IDU	ft [m]	312 [95]
		67.0	- = [1

NOTES

Cooling at 95°F (Indoor: 80°F DB, 67°F WB // Outdoor: 95°F DB, 75°F WB)

Pleating at 47°F (Indoor: 70°F DB, 60°F WB // Outdoor: 47°F DB, 43°F WB)

Pleating at 17°F (Indoor: 70°F DB, 60°F WB // Outdoor: 17°F DB, 15°F WB)

Pleating at 15°F (Indoor: 70°F DB, 60°F WB // Outdoor: 17°F DB, 15°F WB)

Pleating at 13°F (Indoor: 70°F DB, 60°F WB // Outdoor: 13°F DB, 45°F WB)

Pleating at 13°F (Indoor: 70°F DB, 60°F WB // Outdoor: 13°F DB, -14°F WB)

Pleating at -13°F (Indoor: 70°F DB, 60°F WB // Outdoor: 13°F DB, -14°F WB)

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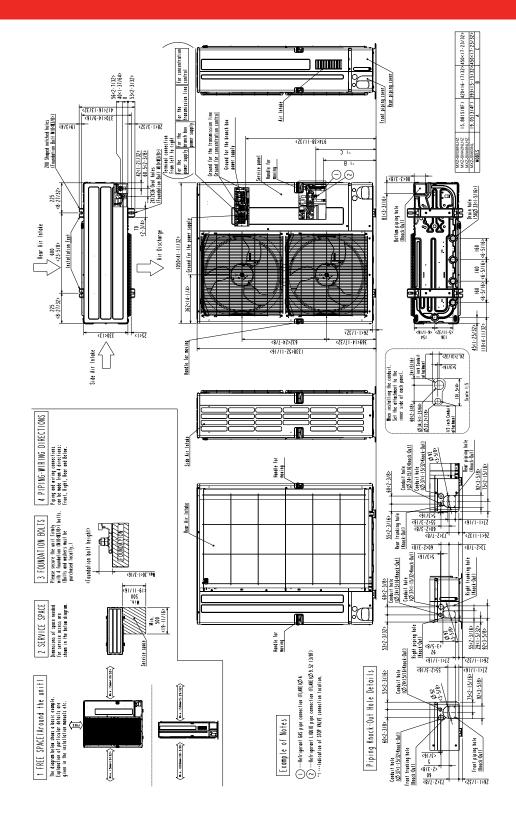
Pleating at -13°F (Indoor: 13°F DB, 14°F WB)

Pleating at -13°F DB, 15°F DB,

OUTDOOR UNIT ACCESSORIES: MXZ-SM36NLHZ

Control Wire	M-Net Control Wire 1000 Roll 16-AWG Standard Twisted Pair Shielded Jacketed- Plenum rated	CW162S-1000
Control Wire Port Adaptor	M-Net Control Wire 250 Roll 16-AWG Standard Twisted Pair Shielded Jacketed- Plenum rated	CW162S-250
	Adaptor 1/4 x 3/8	PAC-SJ87RJ-E
	Adaptor 12 x 38	PAC-SK88RJ-E
	Adaptor 12 x 58	PAC-SK89RJ-E
	Adaptor 38 x 12	ADP3812
Mini-Split Wire	Adaptor 38 x 58	PAC-SK90RJ-E
	14 Gauge 4 wire Armored MiniSplit Cable250 ft roll	SW144-250
	14 Gauge 4 wire Armored MiniSplit Cable50 ft roll	SW144-50
	14 Gauge 4 wire MiniSplit Cable250 ft roll	S144-250
	14 Gauge 4 wire MiniSplit Cable50 ft roll	S144-50
	16 Gauge 4 wire Armored MiniSplit Cable250 ft roll	SW164-250
	16 Gauge 4 wire Armored MiniSplit Cable50 ft roll	SW164-50
Stand	16 Gauge 4 wire MiniSplit Cable250 ft roll	S164-250
	18 Dual Fan Stand	QSMS1802M
	24 Dual Fan Stand	QSMS2402M
	Condenser Wall Bracket	QSWB2000M-1
	Condenser Wall Bracket - Stainless Steel Finish	QSWBSS
	Outdoor Unit 3-14 inch Mounting Base Pair - Plastic	DSD-400P
	Outdoor Unit Stand 12 High	QSMS1202M
B:	Brazed Connection	MSDD-50BR-E
Distribution pipe	Flare Connection	MSDD-50AR2-E
	Refrigeration Ball Valve - 1/2	BV12FFSI2
5 " 1 1	Refrigeration Ball Valve - 1/4	BV14FFSI2
Ball Valve	Refrigeration Ball Valve - 3/8	BV38FFSI2
	Refrigeration Ball Valve - 5/8	BV58FFSI2
	3 Port Branch Box	PAC-LMA30BC
Branch Box	5 Port Branch Box	PAC-LMA50BC
Power Supplies & Auxiliary	Branch Box Enclosure	BBE-1
	3-Pin Wiring Harness	PAC-715AD
Components	5-Pin Wiring Harness	PAC-725AD
Wind Baffle	Front Wind Baffle	WB-PA3 (two pieces are required)
Control/Service Tool	Maintenance Tool Interface	PAC-USCMS-MN-1
Alarm Kit	Alarm Kit	PAC-SL54AL-E
	Alarm Kit Interface	PAC-IF55AL-E
Snow/Rain Diverter	SnowRain Diverter	SRD-5
Centralized Drain Pan	Centralized Drain Pan	PAC-SH97DP-E
Hail Guards	Hail Guard	HG-A2
Drain Socket	Drain Socket	PAC-SG60DS-E
Air Outlet Guide	Air Outlet Guide 1 Piece	PAC-SH96SG-E (two pieces are required)
Mounting Pad	Condensing Unit Mounting Pad 24 x 42 x 3	ULTRILITE2
Air Deflector	Vertical Air Deflector	ADV-1
NOTES		

OUTDOOR UNIT DIMENSIONS: MXZ-SM36NLHZ



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