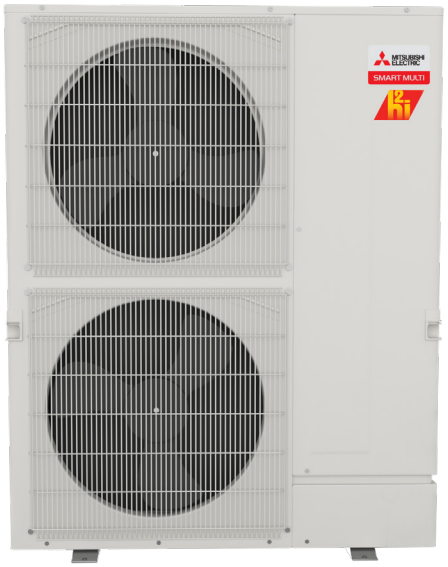
MXZ-SM36NAMHZ2
3-TON MULTI-ZONE INVERTER HEAT-PUMP SYSTEM

MITSUBISHI ELECTRIC
HEATING & AIR CONDITIONING

Job Name:	
System Reference:	Date:



FEATURES

- Compatible with M- and P-Series and CITY MULTI® indoor units. Branch box required for connection with M- and P-Series
- Variable speed INVERTER-driven compressor
- Seacoast protection on heat exchanger and base panel (rated for 2,000 hrs in accordance with ASTM B117 testing)
- Thermal Differential 1°F (with PAC-MKA32/52BC only)
- Built-in base pan heater
- Quiet outdoor unit operation, rated sound pressure as low as 49 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 75% heating capacity at -13°F
- ENERGY STAR® certified (non-ducted, mixed & ducted)

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

SPECIFICATIONS: MXZ-SM36NAMHZ2

Cooling[1] (Non-Ducted // Mix (Mid-static) // Ducted (Mid-static) | Mix (High-static) // Ducted (High-static))	Maximum Capacity	BTU/H	36,000 // 36,000 // 36,000 | 36,000 // 36,000
	Rated Capacity	BTU/H	36,000 // 36,000 // 36,000 | 36,000 // 36,000
	Minimum Capacity	BTU/H	14,000 // 14,000 // 14,000 | 14,000 // 14,000
	Maximum Power Input	W	2,400 // 2,700 // 3,000 | 2,795 // 3,190
	Rated Power Input	W	2,400 // 2,700 // 3,000 | 2,795 // 3,190
	Power Factor (208V, 230V)	%	98.5, 98.5 // 98.5, 98.5 // 98.5, 98.5 | 98.5, 98.5 // 98.5, 98.5
Heating at 47°F[2] (Non-Ducted // Mix (Mid-static) // Ducted (Mid-static) | Mix (High-static) // Ducted (High-static))	Maximum Capacity	BTU/H	42,000 // 42,000 // 42,000 | 42,000 // 42,000
	Rated Capacity	BTU/H	42,000 // 42,000 // 42,000 | 42,000 // 42,000
	Minimum Capacity	BTU/H	22,600 // 22,600 // 22,600 | 18,600 // 14,600
	Maximum Power Input	W	3,080 // 3,300 // 3,520 | 3,350 // 3,620
	Rated Power Input	W	3,080 // 3,300 // 3,520 | 3,350 // 3,620
	Power Factor (208V, 230V)	%	98.5, 98.5 // 98.5, 98.5 // 98.5, 98.5 | 98.5, 98.5 // 98.5, 98.5
Heating at 17°F[3] (Non-Ducted // Mix (Mid-static) // Ducted (Mid-static) | Mix (High-static) // Ducted (High-static))	Maximum Capacity	BTU/H	42,000 // 42,000 // 42,000 | 42,000 // 42,000
	Rated Capacity	BTU/H	32,600 // 29,600 // 26,600 | 29,600 // 26,600
	Maximum Power Input	W	5,600 // 5,878 // 6,155 | 6,298 // 6,995
	Rated Power Input	W	3,415 // 3,153 // 2,890 | 3,333 // 3,250
Heating at 5°F[4] (Non-Ducted // Mix (Mid-static) // Ducted (Mid-static) | Mix (High-static) // Ducted (High-static))	Maximum Capacity	BTU/H	38,500 // 38,500 // 38,500 | 38,500 // 38,500
	Maximum Power Input	W	5,645 // 5,858 // 6,070 | 5,958 // 6,270
Efficiency (Non-Ducted // Mix (Mid-static) // Ducted (Mid-static) | Mix (High-static) // Ducted (High-static))	SEER2		23.0 // 20.75 // 18.5 | 19.3 // 15.6
	EER2[1]		15.0 // 13.5 // 12.0 | 13.15 // 11.3
	HSPF2 (IV)		12.0 // 11.5 // 11.0 | 10.95 // 9.9
	COP at 47°F[2]		4.0 // 3.75 // 3.5 | 3.7 // 3.4
	COP at 17°F at Maximum Capacity[3]		2.2 // 2.1 // 2.0 | 1.98 // 1.76
	COP at 5°F at Maximum Capacity[4]		2.3 // 2.19 // 2.08 | 2.05 // 1.8
	ENERGY STAR® Certified		Yes // Yes // 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 if Branch Box Powered by Outdoor Unit	A	45
	Recommended Fuse/Breaker Size without Branch Box or Branch Box Powered Separate	A	40
	Recommended Wire Size (Indoor - Outdoor) if Branch Box Powered by Outdoor Unit	AWG	6
	Recommended Wire Size (Indoor - Outdoor) without Branch Box or Branch Box Powered Separate	AWG	8
	MCA if Branch Box Powered by Outdoor Unit	A	51.0
	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 Full Load Amperage	A	0.6+0.6

NOTES:

AHRI Rated Conditions (Rated data is determined at a fixed compressor speed)
[1]Cooling (Indoor // Outdoor) °F 80 DB, 67 WB // 95 DB, 75 WB
[2]Heating at 47°F (Indoor // Outdoor) °F 70 DB, 60 WB // 47 DB, 43 WB
[3]Heating at 17°F (Indoor // Outdoor) °F 70 DB, 60 WB // 17 DB, 15 WB

Conditions
[4]Heating 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 when 1 or more PLA-A·EA7 connected
*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.

Mid and high external static pressure tests conducted at 0.3 and 0.5 in.w.g. respectively, according to AHRI 210/240. The external static pressures utilized have no bearing on the capabilities of the indoor unit; please refer to the indoor unit manual to select the correct external static pressure setting for the application.

SPECIFICATIONS: MXZ-SM36NAMHZ2

Outdoor unit	Airflow Rate (Cooling / Heating)	CFM	3,885 / 3,885
	Refrigerant Control		LEV
	Defrost Method		Reverse Cycle
	Heat Exchanger Type		Plate fin coil
	Heat Exchanger Coating		Blue Fin Coating
	Sound Pressure Level, Cooling[1]	dB(A)	49
	Sound Pressure Level, Heating[2]	dB(A)	53
	Compressor Type		Hermetic
	Compressor Model		ANB33FJSMT
	Compressor Motor Output	kW	2.8
	Compressor Rated Load Amps	A	19
	Compressor Locked Rotor Amps	A	22.0
	Compressor Oil Type // Charge	oz.	FV50S // 73
	Base Pan Heater		Built-in
	Unit Dimensions	W: In. [mm]	41-11/32 [1,050]
		D: In. [mm]	13 [330]
		H: In. [mm]	52-11/16 [1,338]
	Package Dimensions	W: In. [mm]	43 [1,090]
		D: In. [mm]	18 [450]
		H: In. [mm]	57 [1,430]
	Unit Weight	Lbs.[kg]	278 [126]
	Package Weight	Lbs.[kg]	302 [137]
Outdoor unit operating temperature range	Cooling Intake Air Temp (Maximum / Minimum*)	°FDB	115 / 5*C
	Cooling Thermal Lock-out / Re-start Temperatures	°FDB	N/A / N/A
	Heating Intake Air Temp (Maximum / Minimum)	°FDB	59 / -13
	Heating Thermal Lock-out / Re-start Temperatures	°FDB	-24 / -14
Refrigerant	Pre-Charged Refrigerant Amount	Lbs, oz	10.0, 9.0
Indoor unit connection	Maximum Number of Connected IDU with Branch Box		4 (3)*A
	Maximum Number of Connected IDU without Branch Box		11
	Minimum Connected Capacity with Branch Box		12,000
	Minimum Connected Capacity without Branch Box		18,000
	Maximum connected capacity		46,800
Piping	Liquid Pipe Size O.D. (Flared)	In.[mm]	3/8 [9.52]
	Gas Pipe Size O.D. (Flared)	In.[mm]	5/8 [15.88]
	Total Piping Length when using Branch Box	Ft. [m]	492 [150]
	Total Piping Length without Branch Box	Ft. [m]	984 [300]
	Maximum Height Difference*B, ODU above IDU	Ft. [m]	164 [50]
	Maximum Height Difference*B, ODU below IDU	Ft. [m]	131 [40]
	Maximum Height Difference*B, between branch boxes	Ft. [m]	49 [15]
	Maximum Height Difference between IDU and IDU without branch box	Ft. [m]	49 [15]
		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]	492 [150]
	Farthest Piping Length after Branch Box	Ft. [m]	82 [25]
	Total Piping Length between Branch Boxes and IDU	Ft. [m]	311 [95]
	Maximum Number of Bends for IDU		15

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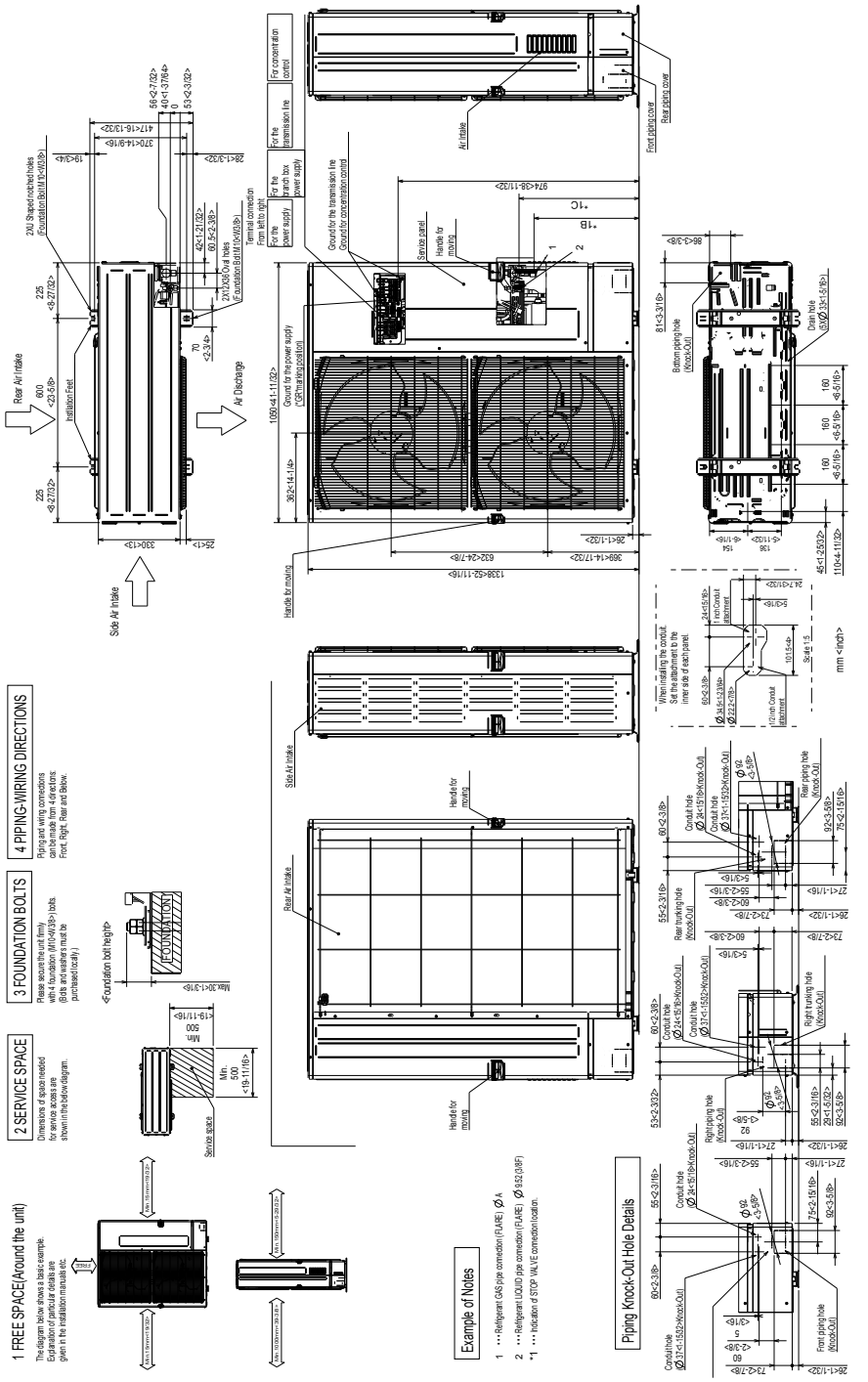
OUTDOOR UNIT DIMENSIONS: MXZ-SM36NAMHZ2

Unit: mm <inch>



MODEL NAME	15.88 (5/8F)	19.05 (3/4F)	15.88 (5/8F)	426 <16-25/32>	393 <15-15/32>	426 <16-25/32>	485 <19-3/32>	450 <17-23/32>	485 <19-3/32>
MXZ-SM36NAMHZ MXZ-SM42NAMHZ MXZ-SM48NAMHZ									
MXZ-SM60NAM									
MXZ-SM36NAM MXZ-SM48NAM									
DIMENSION A	DIMENSION B	DIMENSION C							

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FORM# MXZ-SM36NAMHZ2 - 202406