

MODEL: PAC-MKA30BC, PAC-MKA31BC, PAC-MKA32BC PAC-MKA50BC, PAC-MKA51BC, AND PAC-MKA52BC BRANCH BOX



Job Name:

System Reference:

Date:



PAC-MKA30BC
PAC-MKA31BC
PAC-MKA32BC



PAC-MKA50BC
PAC-MKA51BC
PAC-MKA52BC

DESCRIPTIONS

- The PAC-MKA32/52 have a thermal differential from set point of 1F regardless of which MXZ outdoor unit generation they are connected to.

SPECIFICATIONS

Model Name				PAC-MKA50BC PAC-MKA51BC PAC-MKA52BC	PAC-MKA30BC PAC-MKA31BC PAC-MKA32BC
Connectable number of indoor units				Maximum 5	Maximum 3
Power supply				Single phase, 208/230 V, 60 Hz	
Input		kW		0.003	
Running current		A		0.05	
External finish				Galvanized steel	
Dimensions	Width		Inch (mm)	17-23/32 (450)	
	Depth		Inch (mm)	11-1/32 (280)	
	Height		Inch (mm)	6-11/16 (170)	
Package Dimensions	Width		Inch (mm)	20.1 (511)	
	Depth		Inch (mm)	24.4 (620)	
	Height		Inch (mm)	8.3 (211)	
Weight			lb (kg)	23.4 (10.6)	21.8 (9.9)
Piping Connection (Flare)	Branch (indoor side)*	Liquid	Inch (mm)	ø1/4 (6.35) x 5 {A,B,C,D,E}	ø1/4 (6.35 x 3 {A,B,C}
		Gas	Inch (mm)	ø3/8 (9.52) x 4 {A,B,C,D}, ø1/2 (12.7) x 1{E}	ø3/8 (9.52) x 3 {A,B,C}
	Main (outdoor side)	Liquid	Inch (mm)	ø3/8 (9.52)	
		Gas	Inch (mm)	ø5/8 (15.88)	
*The piping connection size differs according to the type of and capacity of indoor units. Match the piping connection size for indoor and branch box. If the piping connection size of the branch does not match the piping connection size of the indoor units, use optional different-diameter (deformed) joints to the branch box side. (Connect deformed joint directly to the branch box side.)					

ACCESSORIES

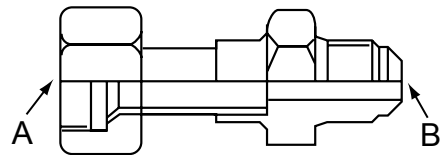
BBE-1	Branch Box Enclosure
MAC-A454JP-E	Port Adapter
MAC-A455JP-E	Port Adapter
MAC-A456JP-E	Port Adapter
PAC-493PI	Port Adapter
PAC-SG76RJ-E	Port Adapter
ADP5834	Port Adapter
MSDD-50AR-D	Flare connection distribution pipe
MSDD-50BR-E	Brazed connection distribution pipe

NOTES:

For the MXZ-8C60 outdoor unit:

- When connecting the outdoor unit to the branch box directly, the reduction in pipe size must be made at the branch box using the port adaptor: ADP5834 (5/8" F x 3/4" M).
- When connecting the outdoor unit to the distribution pipe (MSDD-50AR-D, for using 2 branch boxes), the reduction in pipe size must be made at the distribution pipe using the port adaptor: ADP5834 (5/8" F x 3/4" M).

OPTIONAL PORT ADAPTORS



Model name	Connected pipes diameter	Diameter A	Diameter B
	Inch, mm	Inch, mm	Inch, mm
MAC-A454JP-E	3/8, ø9.52 → 1/2, ø12.7	3/8, ø9.52	1/2, ø12.7
MAC-A455JP-E	1/2, ø12.7 → 3/8, ø9.52	1/2, ø12.7	3/8, ø9.52
MAC-A456JP-E	1/2, ø12.7 → 5/8, ø15.88	1/2, ø12.7	5/8, ø15.88
PAC-493PI	1/4, ø6.35 → 3/8, ø9.52	1/4, ø6.35	3/8, ø9.52
PAC-SG76RJ-E	3/8, ø9.52 → 5/8, ø15.88	3/8, ø9.52	5/8, ø15.88
ADP5834	5/8, ø15.88 → 3/4, ø19.05	5/8, ø15.88	3/4, ø19.05

DIMENSIONS: PAC-MKA30BC, PAC-MKA31BC, AND PAC-MKA32BC

PAC-MKA30BC, PAC-MKA31BC, AND PAC-MKA32BC (3-BRANCHES TYPE)

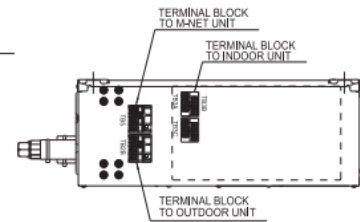
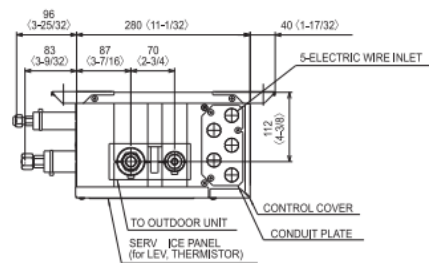
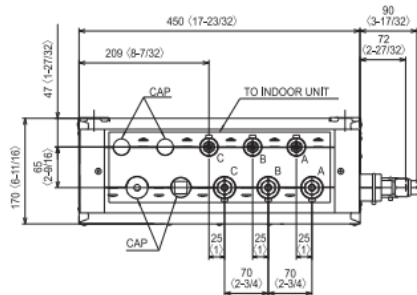
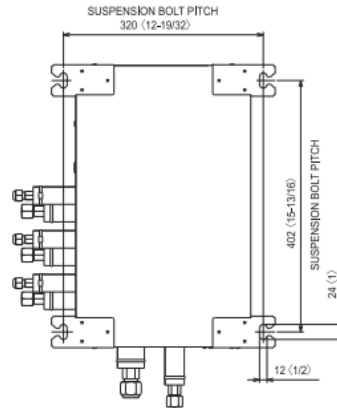
Suspension bolt: W3/8 (M10)
Refrigerant pipe flared connection

inch, mm

	To indoor unit			To outdoor unit
	A	B	C	
Liquid pipe	1/4, ø6.35	1/4, ø6.35	1/4, ø6.35	3/8, ø9.52
Gas pipe	3/8, ø9.52	3/8, ø9.52	3/8, ø9.52	5/8, ø15.88

Conversion formula	
3/8F	ø9.52
5/8F	ø15.88

Unit: mm (inch)



DIMENSIONS: PAC-MKA50BC, PAC-MKA51BC, AND PAC-MKA52BC

PAC-MKA50BC, PAC-MKA51BC, AND PAC-MKA52BC (5-BRANCHES TYPE)

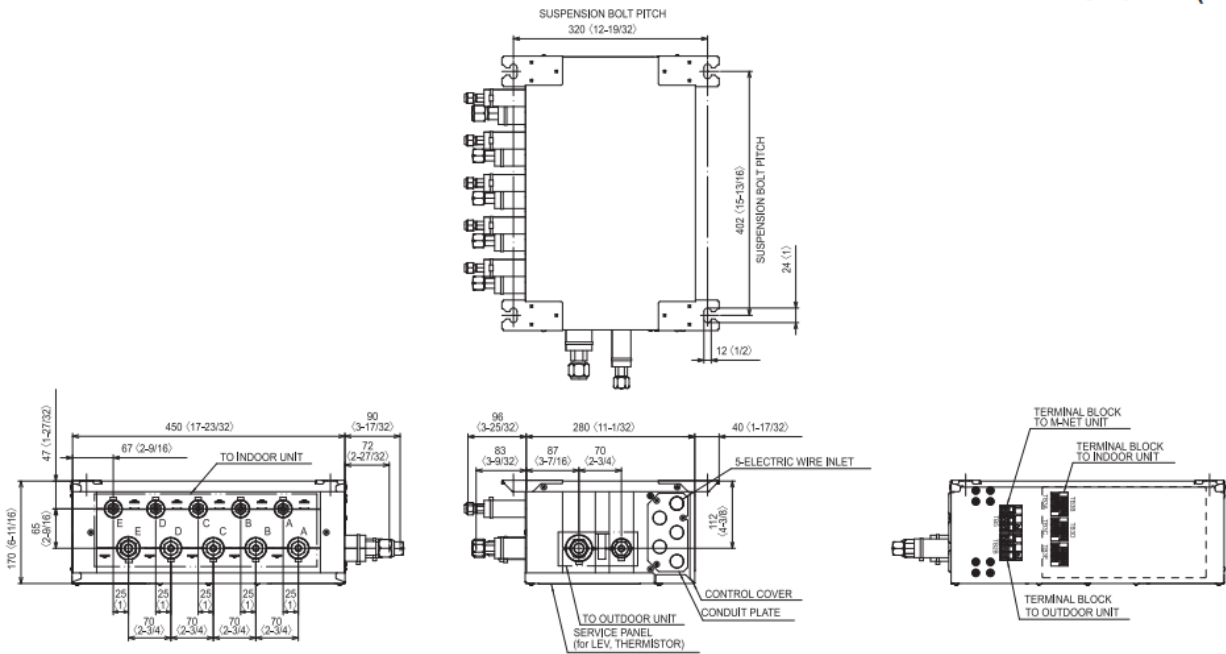
Suspension bolt: W3/8 (M10)
Refrigerant pipe flared connection

inch, mm

	To indoor unit					To outdoor unit
	A	B	C	D	E	
Liquid pipe	1/4, ø6.35	1/4, ø6.35	1/4, ø6.35	1/4, ø6.35	1/4, ø6.35	3/8, ø9.52
Gas pipe	3/8, ø9.52	3/8, ø9.52	3/8, ø9.52	3/8, ø9.52	1/2, ø12.7	5/8, ø15.88

Conversion formula	
1/4F	ø6.35
3/8F	ø9.52
1/2F	ø12.7
5/8F	ø15.88
3/4F	ø19.05

Unit: mm (inch)



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Job Name:

System Reference:

Date:



Indoor Unit: MFZ-KJ09NA-U1



Wireless Remote Controller

SPECIFICATIONS:**Rated Capacity***

Cooling ¹	Btu/h / W	9,000
Heating at 47° F ²	Btu/h / W	11,000

Rating Conditions per AHRI Standard:

¹ Cooling | Indoor: 80° F(27° C)DB / 67° F(19° C)WB ; Outdoor: 95° F(35° C)DB / 75° F(24° C)WB² Heating at 47° F | Indoor: 70° F (21° C)DB / 60° F (16° C)WB ; Outdoor: 47° F (8° C)DB / 43° F (6° C)WB

For data on specific indoor units (all ducted, all non-ducted, and both ducted and non-ducted) combinations, see the MXZ Technical and Service Manual.

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

Electrical Power Requirements	208 / 230V, 1-Phase, 60 Hz	
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Minimum Circuit Ampacity (MCA)	A	1.0
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Blower Motor (ECM)	F.L.A.	0.62
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Blower Motor Output	W	30
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Field Drainpipe Size O.D.	In.(mm)	5/8 (15)
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Airflow Rate (Quiet - Lo - Med - Hi - Super Hi)

Cooling	DRY	CFM	138-173-208-251-275
	WET		117-147-177-213-234
Heating	DRY		138-159-180-219-343

Sound Pressure Level (Quiet - Lo - Med - Hi - Super Hi)

Cooling	dB(A)	21-25-30-34-38
Heating		21-24-27-32-41

Unit Dimensions (H x W x D)	In.(mm)	23-5/8 x 29-17/32 x 8-15/32 (600 x 750 x 215)
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Package Dimensions (H x W x D)	In.(mm)	27-3/4 x 32-3/4 x 12 (693 x 816 x 275)
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Unit/Package Weight

Unit	Lbs.(kg)	33 (15)
Package	Lbs.(kg)	41 (18.5)

External Finish	Munsell 1.0Y 9.2 / 0.2
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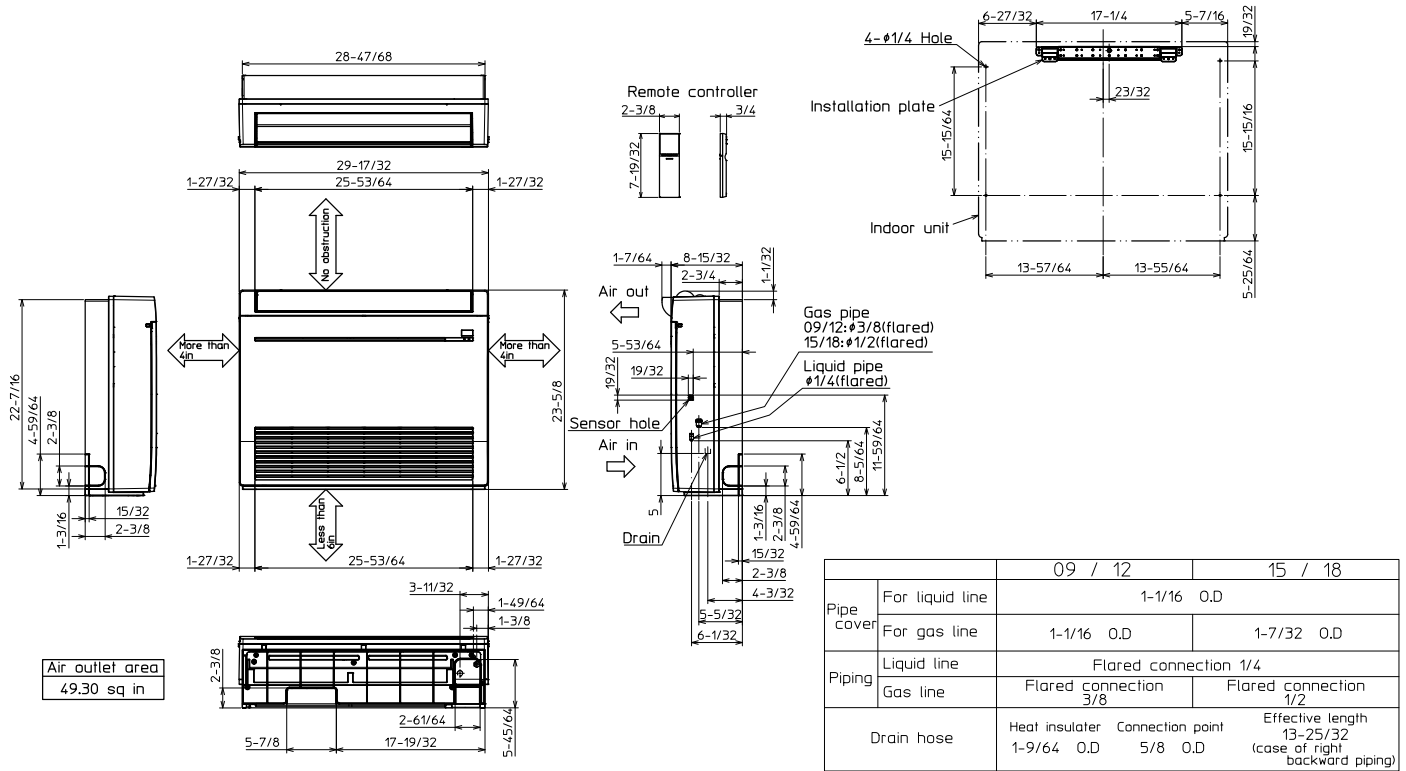
Refrigerant Piping (Flared)

Liquid (High Pressure)	In.(mm)	1/4 (6.35)
Gas (Low Pressure)		3/8 (9.52)

DIMENSIONS: MFZ-KJ09NA-U1

MFZ-KJ09NA-U1

Unit: in.



COOLING & HEATING

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Job Name:

System Reference:

Date:



Indoor Unit: MFZ-KJ15NA-U1



Wireless Remote Controller

SPECIFICATIONS:**Rated Capacity***

Cooling ¹	Btu/h / W	15,000
Heating at 47° F ²	Btu/h / W	18,000

Rating Conditions per AHRI Standard:

¹ Cooling | Indoor: 80° F (27° C) DB / 67° F (19° C) WB ; Outdoor: 95° F (35° C) DB / 75° F (24° C) WB² Heating at 47° F | Indoor: 70° F (21° C) DB / 60° F (16° C) WB ; Outdoor: 47° F (8° C) DB / 43° F (6° C) WB

For data on specific indoor units (all ducted, all non-ducted, and both ducted and non-ducted) combinations, see the MXZ Technical and Service Manual.

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

Electrical Power Requirements	208 / 230V, 1-Phase, 60 Hz	
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Minimum Circuit Ampacity (MCA)	A	1
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Blower Motor (ECM)	F.L.A.	0.62
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Blower Motor Output	W	30
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Field Drainpipe Size O.D.	In.(mm)	5/8 (15)
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Airflow Rate (Quiet - Lo - Med - Hi - Super Hi)

Cooling	DRY	CFM	198-237-282-328-374
	WET		168-201-240-279-318
Heating	DRY		212-254-290-325-470

Sound Pressure Level (Quiet - Lo - Med - Hi - Super Hi)

Cooling	dB(A)	28-31-36-40-43
Heating		29-34-36-39-49

Unit Dimensions (H x W x D)	In.(mm)	23-5/8 x 29-17/32 x 8-15/32 (600 x 750 x 215)
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Package Dimensions (H x W x D)	In.(mm)	27-3/4 x 32-3/4 x 12 (693 x 816 x 275)
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Unit/Package Weight

Unit	Lbs.(kg)	33 (15)
Package	Lbs.(kg)	41 (18.5)

External Finish	Munsell 1.0Y 9.2 / 0.2
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Refrigerant Piping (Flared)

Liquid (High Pressure)	In.(mm)	1/4 (6.35)
Gas (Low Pressure)		1/2 (12.7)

ACCESSORIES:**Indoor Unit**

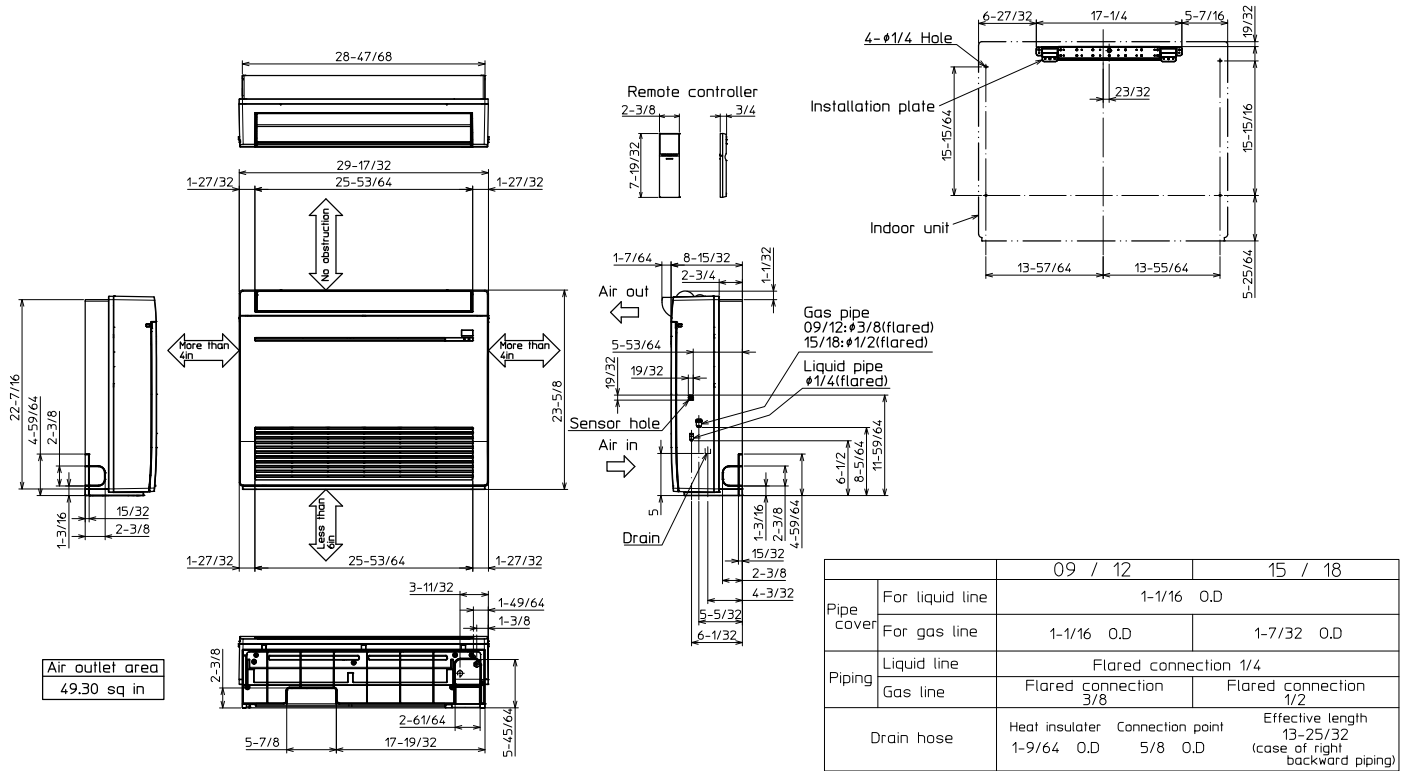
- ☐ Condensate Pump (BlueDiamond X87-711/721; 115/230V)
- ☐ Condensate Pump (Sauermann SI30-115/230; 115/230V)
- ☐ Anti-Allergy Enzyme Filter (MAC-408FT-E)
- ☐ Platinum Catalyst Deodorizing Filter (MAC-308FT-E)
- ☐ Drain Pan Level Sensor (DPLS2)

Controls

- ☐ Wireless Controller (MHK1)
- ☐ Wired Remote Controller PAR-32MAA (Requires MAC-333IF-E)
- ☐ Wireless Interface for kumo cloud™ (PAC-WHS01WF-E)
- ☐ Thermostat Interface (PAC-US444CN-1)

MFZ-KJ15NA-U1

Unit: in.



COOLING & HEATING

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MXZ-SM48NAMHZ-U1

4-TON MULTI-ZONE INVERTER HEAT-PUMP SYSTEM



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

Specifications are subject to change without notice.

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SPECIFICATIONS: MXZ-SM48NAMHZ-U1

Cooling ¹ (Non-Ducted // Mix // Ducted)	Maximum Capacity	BTU/H	48,000 // 48,000 // 48,000
	Rated Capacity	BTU/H	48,000 // 48,000 // 48,000
	Minimum Capacity	BTU/H	16,000 // 16,000 // 16,000
	Maximum Power Input	W	3,665 // 3,930 // 4,245
	Rated Power Input	W	3,665 // 3,930 // 4,245
Heating at 47°F ² (Non-Ducted // Mix // Ducted)	Power Factor (208V, 230V)	%	98.5, 98.5 // 98.5, 98.5 // 98.5, 98.5
	Maximum Capacity	BTU/H	54,000 // 54,000 // 54,000
	Rated Capacity	BTU/H	54,000 // 54,000 // 54,000
	Minimum Capacity	BTU/H	27,000 // 27,000 // 27,000
	Maximum Power Input	W	3,955 // 4,335 // 4,795
Heating at 17°F ³ (Non-Ducted // Mix // Ducted)	Rated Power Input	W	3,955 // 4,335 // 4,795
	Power Factor (208V, 230V)	%	98.5, 98.5 // 98.5, 98.5 // 98.5, 98.5
	Maximum Capacity	BTU/H	54,000 // 54,000 // 54,000
	Rated Capacity	BTU/H	39,000 // 39,000 // 39,000
	Maximum Power Input	W	6,330 // 7,750 // 3,665
Heating at 5°F ⁴ (Non-Ducted // Mix // Ducted)	Rated Power Input	W	4,230 // 4,680 // 5,130
	Maximum Capacity	BTU/H	54,000 // 54,000 // 54,000
Efficiency (Non-Ducted // Mix // Ducted)	Maximum Power Input	W	7,915 // 8,120 // 8,330
	SEER		23.0 // 19.75 // 16.5
	EER ¹		13.1 // 12.2 // 11.3
	HSPF (IV)		12.0 // 11.5 // 11.0
	COP at 47°F ²		4.0 // 3.65 // 3.3
	COP at 17°F at Maximum Capacity ³		2.5 // 2.0 // 1.8
	COP at 5°F at Maximum Capacity ⁴		2.1 // 1.95 // 1.9
Electrical	ENERGY STAR® Certified		Yes // No // No
	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)	AWG	16
	MCA if Branch Box Powered by Outdoor Unit	A	42.0
	MCA without Branch Box or Branch Box Powered Separate	A	36
	MOCP if Branch Box Powered by Outdoor Unit	A	50
	MOCP without Branch Box or Branch Box Powered Separate	A	40
	Fan Motor Full Load Amperage	A	0.6+0.6
	Fan Motor Output	W	74
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)	51
	Sound Pressure Level, Heating ²	dB(A)	54
	Compressor Type		Hermetic
	Compressor Model		ANB33FJSMT
	Compressor Motor Output	kW	3.4
	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]

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)

⁴Heating at 5°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

°F 70 DB, 60 WB // 5 DB, 4 WB

Conditions

*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.

SPECIFICATIONS: MXZ-SM48NAMHZ-U1

Outdoor unit operating temperature range	Cooling Intake Air Temp (Maximum / Minimum)	°FDB	115 / 23
	Cooling Thermal Lock-out / Re-start Temperatures	°FDB	N/A / N/A
	Heating Intake Air Temp (Maximum / Minimum)	°FWB	59 / -13
	Heating Thermal Lock-out / Re-start Temperatures	°FDB	-24 / -14
Refrigerant	Type		R410A
	Charge	Lbs, oz	10, 9.0
Indoor unit connection	Maximum Number of Connected IDU with Branch Box		8 (6) ^A
	Maximum Number of Connected IDU without Branch Box		12
	Minimum Number of Connected IDU with Branch Box		2
	Minimum Number of Connected IDU without Branch Box		1
	Minimum Connected Capacity with Branch Box	BTU/H	12,000
	Maximum Connected Capacity	BTU/H	62,000
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 ^B , between branch boxes and IDU	Ft. [m]	49 [15]
	Maximum Height Difference between IDU and IDU without branch box	Ft. [m]	49 [15]
	Max. 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

NOTES:

AHRI Rated Conditions

(Rated data is determined at a fixed compressor speed)

¹Cooling (Indoor // Outdoor)

°F 80 DB, 67 WB // 95 DB, 75 WB

²Heating at 47°F (Indoor // Outdoor)

°F 70 DB, 60 WB // 47 DB, 43 WB

³Heating at 17°F (Indoor // Outdoor)

°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

^AApplications 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.

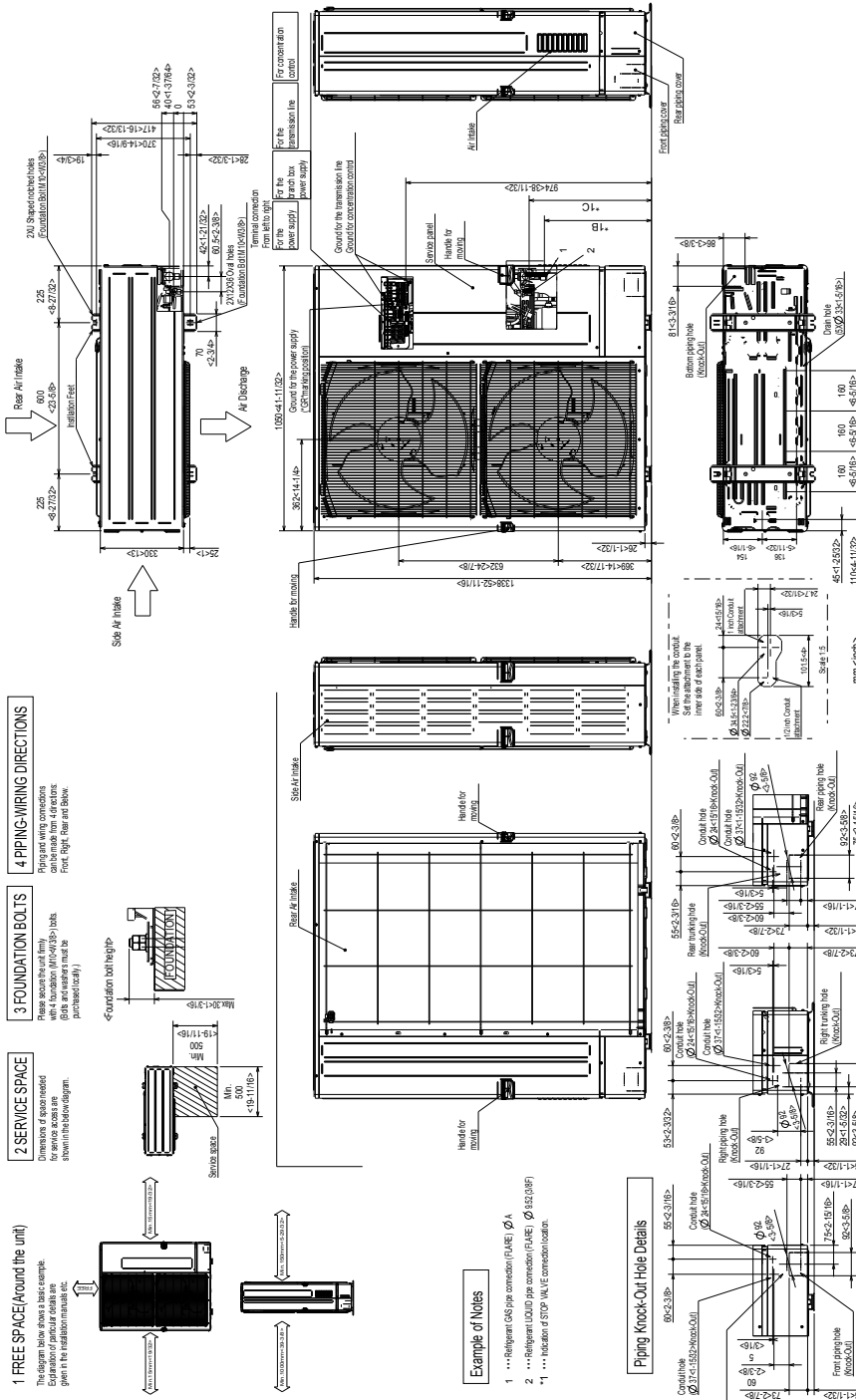
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OUTDOOR UNIT ACCESSORIES: MXZ-SM48NAMHZ-U1

Air Deflector	Vertical Air Deflector	ADV-1
Air Outlet Guide	Air Outlet Guide (1 Piece)	PAC-SH96SG-E (two pieces are required)
Ball Valve	Refrigeration Ball Valve - 1/2"	BV12FFSI2
	Refrigeration Ball Valve - 1/4"	BV14FFSI2
	Refrigeration Ball Valve - 3/8"	BV38FFSI2
	Refrigeration Ball Valve - 5/8"	BV58FFSI2
Branch Box	Branch Box	PAC-MKA32BC
	Branch Box	PAC-MKA52BC
	Branch Box Enclosure	BBE-1
Centralized Drain Pan	Central Drain Pan	PAC-SH97DP-E
Control Wire	M-Net Control Wire, 1,000' Roll (16-AWG, Standard, Twisted Pair, Shielded, Jacketed- Plenum rated)	CW162S-1000
	M-Net Control Wire, 250' Roll (16-AWG, Standard, Twisted Pair, Shielded, Jacketed- Plenum rated)	CW162S-250
Control/Service Tool	Maintenance Tool Interface	PAC-USCMS-MN-1
Distribution pipe	Brazed Connection	MSDD-50BR-E
	Flare Connection	MSDD-50AR-E
Hail Guards	Hail Guard	HG-A2
Mini-Split Wire	14 Gauge, 4 wire MiniSplit Cable—250 ft. roll	S144-250
	14 Gauge, 4 wire MiniSplit Cable—50 ft. roll	S144-50
	16 Gauge, 4 wire MiniSplit Cable—250 ft. roll	S164-250
	16 Gauge, 4 wire MiniSplit Cable—50 ft. roll	S164-50
Mounting Pad	Condensing Unit Mounting Pad: 24" x 42" x 3"	ULTRILITE2
	Outdoor Unit 3-1/4 inch Mounting Base (Pair) - Plastic	DSD-400P
Port Adapter	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
Stand	18" Dual Fan Stand	QSMS1802M
	24" Dual Fan Stand	QSMS2402M
	Condenser Wall Bracket	QSWB2000M-1
	Condenser Wall Bracket - Stainless Steel Finish	QSWBSS
	Outdoor Unit Stand — 12" High	QSMS1202M
Wind Baffle	Front Wind Baffle	WB-PA3 (two pieces are required)

OUTDOOR UNIT DIMENSIONS: MXZ-SM48NAMHZ-U1

Unit: mm
<inch>



MODEL NAME	DIMENSION A	DIMENSION B	DIMENSION C
MXZ-SM6NAMHZ	15.88 (5/8F)	426 <16-25/32>	486 <19-3/32>
MXZ-SM42NAMHZ	15.88 (5/8F)	426 <16-25/32>	486 <19-3/32>
MXZ-SM48NAMHZ	15.88 (5/8F)	426 <16-25/32>	486 <19-3/32>
MXZ-SM6NAM	15.88 (5/8F)	426 <16-25/32>	486 <19-3/32>
MXZ-SM42NAM	15.88 (5/8F)	426 <16-25/32>	486 <19-3/32>
MXZ-SM48NAM	15.88 (5/8F)	426 <16-25/32>	486 <19-3/32>