MLZ-KP12NA2 12,000 BTU/H EZ FIT CEILING CASSETTE



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System Reference: Date:



GENERAL FEATURES

- · Fits between 16" joists spacing
- · Stylish, square design panel
- Built-in condensate lift mechanism (19.6")
- · Serviceable from the bottom (electrical and flare connections)
- · Adjustable fan speeds and vane directions
- · Washable antibacterial and deodorizing filter
- · Multiple control options available:
 - o Hand-held Remote Controller (provided with unit)
 - o kumo cloud® smart device app for remote access
 - o Third-party interface options
 - o Wired or wireless controllers
- Pocket inside the access panel for kumo cloud® Wireless Interface

	Specifications		System
	Unit Type		MLZ-KP12NA2
Cooling Capacity ^{1, 3}		BTU/H	12,000
Heating Capacity ^{2, 3}		BTU/H	15,400
	Voltage, Phase, Frequency		208/230, 1, 60
	Guaranteed Voltage Range	VAC	187- 253V
Electrical	Voltage: Indoor - Outdoor, S1-S2	VAC	208/230
	Voltage: Indoor - Outdoor, S2-S3	V DC	24
	Short-circuit Current Rating [SCCR]	kA	5
	MCA	A	1.0
	Fan Motor Full Load Amperage	A	0.68
	Airflow Rate at Cooling, Dry	CFM	212-272-297-332
	Airflow Rate at Cooling, Wet	CFM	180-219-252-282
Indoor Unit	Airflow Rate at Heating, Dry	CFM	212-272-311-350
	Sound Pressure Level [Cooling]	dB[A]	27-32-36-40
	Sound Pressure Level [Heating]	dB[A]	26-32-36-40
	Drain Pipe Size	In. [mm]	1-1/4 [32]
	Condensate Lift Mechanism, Maximum Distance	In. [mm]	19-11/16 [500]
	Coating on Heat Exchanger	Coating on Heat Exchanger	
	External Finish Color	External Finish Color	
	Unit Dimensions	W x D x H: In. [mm]	43-3/8 x 14-3/16 x 7-5/16 [1,102 x 360 x 185]
	Package Dimensions	W x D x H: In. [mm]	46-5/16 x 15-3/4 x 11-1/8 [1,177 x 400 x 284]
	Unit Weight	Lbs. [kg]	34 [15.5]
	Package Weight	Lbs. [kg]	41 [19.0]
Refrigerant	Туре		R410A
Dining	Gas Pipe Size O.D. [Flared]	In.[mm]	3/8 [9.52]
Piping	Liquid Pipe Size O.D. [Flared]	In.[mm]	1/4 [6.35]

NOTES: Conditions

¹Cooling (Indoor // Outdoor) ²Heating at 47°F (Indoor // Outdoor) °F 80 DB, 67 WB // 95 DB, 75 WB °F 70 DB, 60 WB // 47 DB, 43 WB

³Capacity varies based on the number of indoor units operating and the model of the Multi-zone Outdoor Unit. For reference to connected capacity charts, please refer Multi-zone Outdoor Unit Operational Performance.:

INDOOR UNIT ACCESSORIES: MLZ-KP12NA2

	BACnet [®] and Modbus [®] Interface	PAC-UKPRC001-CN-1
	CN24 Relay Kit	CN24RELAY-KIT-CM3
	IT Extender	PAC-WHS01IE-E
	kumo station® for kumo cloud®	PAC-WHS01HC-E
Control Interface	Lockdown bracket for remote controller	RCMKP1CB
Control Interface	System Control Interface	MAC-334IF-E
	Thermostat Interface	PAC-US444CN-1
	Thermostat Interface	PAC-US445CN-1
	USNAP Adapter	PAC-WHS01UP-E
	Wireless Interface for kumo cloud®	PAC-USWHS002-WF-2
Remote Sensor	Wired Remote Sensor	M21EAA307
Remote Sensor	Wireless temperature and humitity sensor for kumo cloud®	PAC-USWHS003-TH-1
	Deluxe Wired MA Remote Controller [†]	PAR-40MAAU
Wired Remote Controller	Simple MA Remote Controller [†]	PAC-YT53CRAU-J
	Touch MA Controller [†]	PAR-CT01MAU-SB
Wireless Remote Controller	kumo touch™ RedLINK™ Wireless Controller	MHK2
	Blue Diamond (Advanced) Mini Condensate Pump w/ Reservoir & Sensor (208/230V) [recommended]	X87-721
Condensate	Blue Diamond (MicroBlue) Mini Condensate Pump (110/208/230V) up to 18,000 BTU/H	X86-003
	Refco Condensate Pump (100-240 VAC) up to 120,000 BTU/H	СОМВІ
Disconnect Switch	(30A/600V/UL) [fits 2" X 4" utility box] - Black	TAZ-MS303
Disconnect Switch	(30A/600V/UL) [fits 2" X 4" utility box] - White	TAZ-MS303W
ilter	Anti-allergy Enzyme Filter	MAC-408FT-E
Grille	Grille (required)	MLP-444WU
	15' x 1/4" x 15' / 3/8" Lineset (Twin-Tube Insulation)	MLS143812T-15
	30' x 1/4" x 30' / 3/8" Lineset (Twin-Tube Insulation)	MLS143812T-30
Lineset	50' x 1/4" x 50' / 3/8" Lineset (Twin-Tube Insulation)	MLS143812T-50
	65' x 1/4" x 65' / 3/8" Lineset (Twin-Tube Insulation)	MLS143812T-65

NOTES:

†Requires MAC-334IF-E

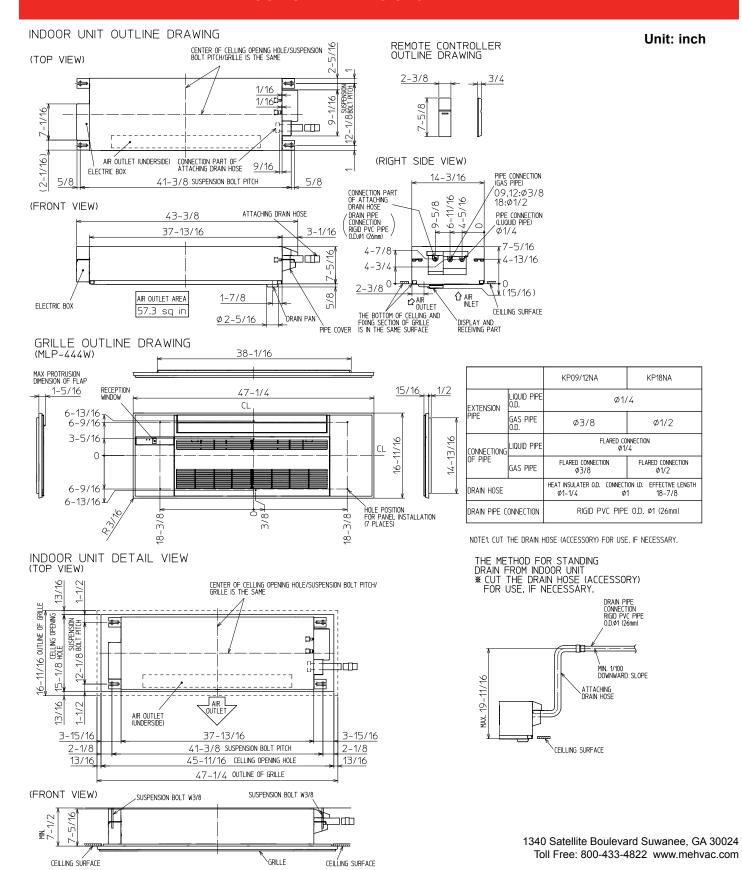
• M-Series EZ FIT® Recessed Ceiling Cassette, Floor-mount and Wall-mount Allows indoor units to connect to an MA Controller:

Deluxe MA Remote Controller

Simple MA Controller

Touch MA Controller

INDOOR UNIT DIMENSIONS: MLZ-KP12NA2



FORM# MLZ-KP12NA2-U1 - 202209





MLZ-KP18NA2 18,000 BTU/H EZ FIT CEILING CASSETTE



Job	Name:
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System Reference: Date:



GENERAL FEATURES

- · Fits between 16" joists spacing
- · Stylish, square design panel
- Built-in condensate lift mechanism (19.6")
- · Serviceable from the bottom (electrical and flare connections)
- · Adjustable fan speeds and vane directions
- · Washable antibacterial and deodorizing filter
- · Multiple control options available:
 - o Hand-held Remote Controller (provided with unit)
 - o kumo cloud® smart device app for remote access
 - o Third-party interface options
 - o Wired or wireless controllers
- Pocket inside the access panel for kumo cloud® Wireless Interface

	Specifications		System
	Unit Type		MLZ-KP18NA2
Cooling Capacity ^{1, 3} BTU/H		18,000	
Heating Capacity ^{2, 3}		BTU/H	20,000
	Voltage, Phase, Frequency	·	208/230, 1, 60
	Guaranteed Voltage Range	V AC	187- 253V
Electrical	Voltage: Indoor - Outdoor, S1-S2	VAC	208/230
	Voltage: Indoor - Outdoor, S2-S3	V DC	24
	Short-circuit Current Rating [SCCR]	kA	5
	MCA	A	1.0
	Fan Motor Full Load Amperage	A	0.68
	Airflow Rate at Cooling, Dry	CFM	212-311-346-403
	Airflow Rate at Cooling, Wet	CFM	180-249-294-343
	Airflow Rate at Heating, Dry	CFM	212–311–364–417
	Sound Pressure Level [Cooling]	dB[A]	29–36–41–47
	Sound Pressure Level [Heating]	dB[A]	26-37-42-48
Indoor Unit	Drain Pipe Size	In. [mm]	1-1/4 [32]
	Condensate Lift Mechanism, Maximum Distance	In. [mm]	19-11/16 [500]
	Coating on Heat Exchanger	Coating on Heat Exchanger	
	External Finish Color	External Finish Color	
	Unit Dimensions	W x D x H: In. [mm]	43-3/8 x 14-3/16 x 7-5/16 [1,102 x 360 x 185]
	Package Dimensions	W x D x H: In. [mm]	46-5/16 x 15-3/4 x 11-1/8 [1,177 x 400 x 284]
	Unit Weight	Lbs. [kg]	35 [16]
	Package Weight	Lbs. [kg]	42 [19]
Refrigerant	Туре		R410A
Dining	Gas Pipe Size O.D. [Flared]	In.[mm]	1/2 [12.7]
Piping	Liquid Pipe Size O.D. [Flared]	In.[mm]	1/4 [6.35]

NOTES: Conditions

¹Cooling (Indoor // Outdoor) ²Heating at 47°F (Indoor // Outdoor) °F 80 DB, 67 WB // 95 DB, 75 WB °F 70 DB, 60 WB // 47 DB, 43 WB

³Capacity varies based on the number of indoor units operating and the model of the Multi-zone Outdoor Unit. For reference to connected capacity charts, please refer Multi-zone Outdoor Unit Operational Performance.:

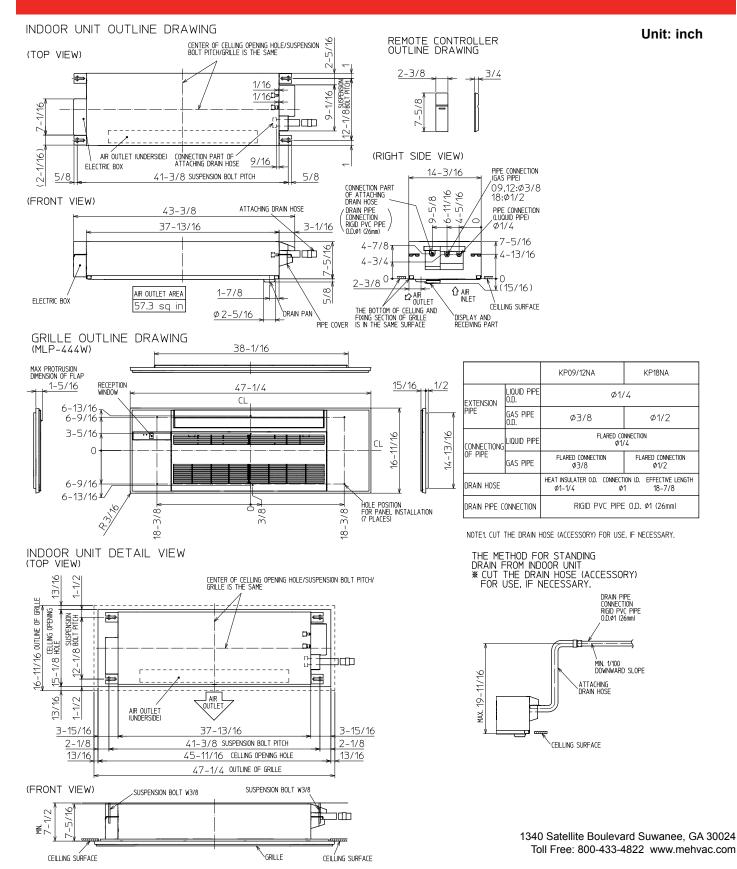
INDOOR UNIT ACCESSORIES: MLZ-KP18NA2

	BACnet® and Modbus® Interface	PAC-UKPRC001-CN-1
	CN24 Relay Kit	CN24RELAY-KIT-CM3
	IT Extender	PAC-WHS01IE-E
	kumo station® for kumo cloud®	PAC-WHS01HC-E
Control Interfece	Lockdown bracket for remote controller	RCMKP1CB
Control Interface	System Control Interface	MAC-334IF-E
	Thermostat Interface	PAC-US444CN-1
	Thermostat Interface	PAC-US445CN-1
	USNAP Adapter	PAC-WHS01UP-E
	Wireless Interface for kumo cloud®	PAC-USWHS002-WF-2
Domesto Comercia	Wired Remote Sensor	M21EAA307
Remote Sensor	Wireless temperature and humitity sensor for kumo cloud®	PAC-USWHS003-TH-1
	Deluxe Wired MA Remote Controller [†]	PAR-40MAAU
Wired Remote Controller	Simple MA Remote Controller [†]	PAC-YT53CRAU-J
	Touch MA Controller†	PAR-CT01MAU-SB
Wireless Remote Controller	kumo touch™ RedLINK™ Wireless Controller	MHK2
	Blue Diamond (Advanced) Mini Condensate Pump w/ Reservoir & Sensor (208/230V) [recommended]	X87-721
Condensate	Blue Diamond (MicroBlue) Mini Condensate Pump (110/208/230V) up to 18,000 BTU/H	X86-003
	Refco Condensate Pump (100-240 VAC) up to 120,000 BTU/H	COMBI
Discourse at Curitals	(30A/600V/UL) [fits 2" X 4" utility box] - Black	TAZ-MS303
Disconnect Switch	(30A/600V/UL) [fits 2" X 4" utility box] - White	TAZ-MS303W
Filter	Anti-allergy Enzyme Filter	MAC-408FT-E
Grille	Grille (required)	MLP-444WU
Lineset	100' x 1/4" x 100' / 1/2" Lineset (Twin-Tube Insulation)	MLS141212T-100
	15' x 1/4" x 15' / 1/2" Lineset (Twin-Tube Insulation)	MLS141212T-15
	30' x 1/4" x 30' / 1/2" Lineset (Twin-Tube Insulation)	MLS141212T-30
	50' x 1/4" x 50' / 1/2" Lineset (Twin-Tube Insulation)	MLS141212T-50
	65' x 1/4" x 65' / 1/2" Lineset (Twin-Tube Insulation)	MLS141212T-65

NOTES:
'Requires MAC-334IF-E

'M-Series EZ FIT® Recessed Ceiling Cassette, Floor-mount and Wall-mount
Allows indoor units to connect to an MA Controller:
Deluxe MA Remote Controller
Simple MA Controller
Touch MA Controller

INDOOR UNIT DIMENSIONS: MLZ-KP18NA2



FORM# MLZ-KP18NA2-U1 - 202209



MXZ-3C30NA3 2.5-TON MULTI-ZONE INVERTER HEAT-PUMP SYSTEM



	Job	Name:
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System Reference: Date:



FEATURES

- Variable speed INVERTER-driven compressor
- · Optional base pan heater
- Quiet outdoor unit operation as low as 52 dB(A)
- · High pressure protection
- Compressor thermal protection
- · Compressor overcurrent detection
- Fan motor overheating/voltage protection

SPECIFICATIONS: MXZ-3C30NA3

	Maximum Capacity	BTU/H	28,400 // 28,400 // 28,400
	Rated Capacity	BTU/H	28,400 // 27,900 // 27,400
Cooling ¹ (Non-Ducted // Mix // Ducted)	Minimum Capacity	BTU/H	11,600 // 11,300 // 11,000
	Maximum Power Input	W	2,680 // 2,680 // 2,680
	Rated Power Input	W	2,680 // 2,760 // 2,840
	Power Factor (208V, 230V)	%	99.0, 99.0 // 99.0, 99.0 // 99.0, 99.0
	Maximum Capacity	BTU/H	36,000 // 36,000 // 36,000
	Rated Capacity	BTU/H	28,600 // 28,100 // 27,600
Heating at 47°F2 (New Dueted // Mix //	· · ·	BTU/H	
Heating at 47°F ² (Non-Ducted // Mix // Ducted)	Minimum Capacity	W W	18,100 // 18,300 // 18,500
240.04)	Maximum Power Input	W	3,300 // 3,300 // 3,300
	Rated Power Input	%	2,150 // 2,185 // 2,220
	Power Factor (208V, 230V)		98.5, 98.5 // 98.4, 98.4 // 98.2, 98.2
Harting at 479F2 (Nam Doorted // Min //	Maximum Capacity	BTU/H	21,000 // 21,000 // 21,000
Heating at 17°F³ (Non-Ducted // Mix // Ducted)	Rated Capacity	BTU/H W	17,800 // 17,800 // 17,800
<i>Buoled</i>)	Maximum Power Input		2,740 // 2,780 // 2,820
	Rated Power Input	W	1,760 // 1,830 // 1,900
Heating at 5°F ⁴ (Non-Ducted // Mix // Ducted)	Maximum Capacity	BTU/H	18,200 // 18,200 // 18,200
Ducted)	Maximum Power Input	W	2,310 // 2,355 // 2,400
	SEER		19.0 // 17.6 // 16.2
	EER¹		10.6 // 10.12 // 9.65
Efficiency (Non Dust-of // Miss // Dust 19	HSPF (IV)		10.6 // 10.1 // 9.6
Efficiency (Non-Ducted // Mix // Ducted)	COP at 47°F2		3.9 // 3.77 // 3.65
	COP at 17°F at Maximum Capacity³		2.25 // 2.22 // 2.18
	COP at 5°F at Maximum Capacity ⁴		2.31 // 2.26 // 2.22
	ENERGY STAR® Certified		No // No // No
	Electrical Power Requirements	Voltage, Phase, Frequency	208/230, 1, 60
	Guaranteed Voltage Range	VAC	187-253
	Voltage: Indoor - Outdoor, S1-S2	VAC	208/230
	Voltage: Indoor - Outdoor, S2-S3	V DC	24
Electrical	Short-circuit Current Rating (SCCR)	kA	5
	Recommended Fuse/Breaker Size	Α	25
	Recommended Wire Size	AWG	14
	Minimum Circuit Ampacity	Α	22.1
	Maximum Overcurrent Protection	Α	25
	Fan Motor Full Load Amperage	Α	2.43
	Airflow Rate (Cooling / Heating)	CFM	2,287 / 2,382
	Refrigerant Control		LEV
	Defrost Method		Reverse Cycle
	Heat Exchanger Type		Plate fin coil
	Sound Pressure Level, Cooling ¹	dB(A)	52
	Sound Pressure Level, Heating ²	dB(A)	56
	Compressor Type		DC INVERTER-driven Twin Rotary
	Compressor Model	SNB220FQGMC	
	Compressor Rated Load Amps	Α	12
Outdoorunit	Compressor Locked Rotor Amps	Α	13.7
Outdoor unit	Compressor Oil Type // Charge	OZ.	FV50S // 23.7
	Base Pan Heater		Optional
		W: In. [mm]	37-13/32 [950]
	Unit Dimensions	D: In. [mm]	13 [330]
		H: In. [mm]	31-11/32 [796]
		W: In. [mm]	40-15/16 [1,040]
	Package Dimensions	D: In. [mm]	17-11/16 [450]
		H: In. [mm]	40-11/16 [1,033]
	Unit Weight	Lbs.[kg]	137 [62]
	Package Weight	Lbs.[kg]	157 [71]
	Cooling Intake Air Temp (Maximum / Minimum ^{*A})	°FDB	115 / 14
Outdoor unit operating temperature	Cooling Thermal Lock-out / Re-start Temperatures	°FDB	10.4 / 14
range	Heating Intake Air Temp (Maximum / Minimum)	°FWB	65 / 5
	Heating Thermal Lock-out / Re-start Temperatures	°FDB	1.4 / 5
	Charge	Lbs, oz	6.0, 13.0
	Chargeless Piping Length	Ft. [m]	98.0 [30.0]
		. se friid	20.0 [00.0]
Kenigerant	Additional Refrigerant Charge Per Additional Piping Length	oz./Ft. [g/m]	0.216 [20]

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

70 DB, 60 WB // 5 DB, 4 WB

Conditions ⁴Heating at 5°F (Indoor // Outdoor)

'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.

SPECIFICATIONS: MXZ-3C30NA3

	Maximum Number of Connected IDU	Maximum Number of Connected IDU	
Indoor unit connection	Minimum Number of Connected IDU	Minimum Number of Connected IDU	
mader and connection	Minimum connected capacity	BTU/H	12,000
	Maximum connected capacity	BTU/H	36,000
Piping	Liquid Pipe Size O.D. (Flared)	In.[mm]	A,B,C: 1/4 [A,B,C: 6.35]
	Gas Pipe Size O.D. (Flared)	In.[mm]	A: 1/2; B,C: 3/8 [A: 12.72; B,C: 9.52]
	Total Piping Length	Ft. [m]	230 [70]
	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		70

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

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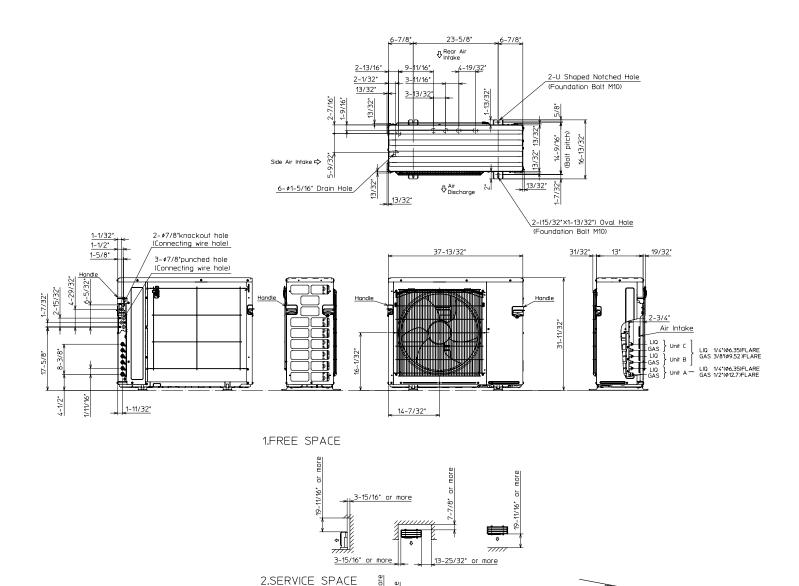
Applications should be restricted to comfort cooling only; equipment cooling applications are not recommended for low ambient temperature conditions. A 5°F DB - 115°F DB when optional wind baffles are installed

OUTDOOR UNIT ACCESSORIES: MXZ-3C30NA3

Air Outlet Guide	Air Outlet Guide (1 Piece)	PAC-SH96SG-E
	Refrigeration Ball Valve - 1/2"	BV12FFSI2
Ball Valve	Refrigeration Ball Valve - 1/4"	BV14FFSI2
odii vaive	Refrigeration Ball Valve - 3/8"	BV38FFSI2
	Refrigeration Ball Valve - 5/8"	BV58FFSI2
Control Wire	M-Net Control Wire, 1,000' Roll (16-AWG, Standard, Twisted Pair, Shielded, Jacketed-Plenum rated)	CW162S-1000
ontroi wire	M-Net Control Wire, 250' Roll (16-AWG, Standard, Twisted Pair, Shielded, Jacketed-Plenum rated)	CW162S-250
Orain Socket	Drain Socket	PAC-SG60DS-E
lail Guards	Hail Guard	HG-A9
1-NET Converter	M-NET Converter	PAC-IF01MNT-E
	14 Gauge, 4 wire MiniSplit Cable—250 ft. roll	S144-250
	14 Gauge, 4 wire MiniSplit Cable—250 ft. roll	SW144-250
	14 Gauge, 4 wire MiniSplit Cable—50 ft. roll	S144-50
/lini-Split Wire	14 Gauge, 4 wire MiniSplit Cable—50 ft. roll	SW144-50
nini-spiit wire	16 Gauge, 4 wire MiniSplit Cable—250 ft. roll	S164-250
	16 Gauge, 4 wire MiniSplit Cable—250 ft. roll	SW164-250
	16 Gauge, 4 wire MiniSplit Cable—50 ft. roll	S164-50
	16 Gauge, 4 wire MiniSplit Cable—50 ft. roll	SW164-50
Acception Dod	Condensing Unit Mounting Pad: 16" x 36" x 3"	ULTRILITE1
Mounting Pad	Outdoor Unit 3-1/4 inch Mounting Base (Pair) - Plastic	DSD-400P
	Adaptor: 1/2" x 3/8"	MAC-A455JP-E
Port Adapter	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
Stand	Condenser Wall Bracket	QSWB2000M-1
	Condenser Wall Bracket - Stainless Steel Finish	QSWBSS
	Outdoor Unit Stand — 12" High	QSMS1201M

OUTDOOR UNIT DIMENSIONS: MXZ-3C30NA3

Unit: inch (mm)



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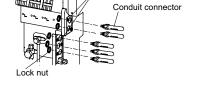
19-11/16*

SERVICE SPACE 13-25/32" or more

-15/16" or ь

3-15/16* or more

13-25/32* or more



Conduit plates

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