MLZ-KX12NL & SUZ-AA12NL 11,300 BTU/H CEILING-MOUNTED INDOOR UNIT 11,300 BTU/H HEAT PUMP OUTDOOR UNIT



Job Name:	
System Reference:	Date:



Indoor Unit	MLZ-KX12N
Outdoor Unit	SUZ-AA12N

INDOOR UNIT FEATURES

- · Adjustable fan speeds and vane directions
- Auto Vane Control: Outlet vanes can be moved left and right, and up and down using the remote controller. This improved air flow control feature solves the problem of drafts
- · Built-in condensate lift mechanism (19.6"): Reduces the need for an additional pump to remove condensate water
- Econo Cool: Econo Cool temporarily and automatically adjusts the airflow based on heat exchanger temperature. The set temperature is increased slightly, which saves energy, while maintaining comfort.
- · Fits between 16" joists spacing
- Multiple control options including: Hand-held Remote Controller (provided with unit), comfort app, third-party interfaces and both wired and wireless
 controllers
- · Serviceable from the bottom (electrical and flare connections)
- · Stylish, square design panel
- · Washable antibacterial and deodorizing filter
- Weekly Timer Function: Easily set desired temperatures and operation ON/OFF times to match lifestyle patterns. Reduce wasted energy consumption
 by using the timer to prevent forgetting to turn off the unit and eliminate temperature setting adjustments.
- · Wi-Fi enabled units pair with the Comfort app for complete control over temperature, fan speeds, modes, schedules, and more.

OUTDOOR UNIT FEATURES

- Blue Fin Coating: An anti-corrosion treatment applied to the aluminum fins of the heat exchanger of the outdoor unit to protect against corrosion caused by salt, sulfur, and other airborne contaminants, especially in coastal and industrial areas.
- · High-performance grooved piping: High-performance grooved piping for increased heat exchange efficiency
- · Hot-Start Technology: Hot-Start Technology ensures the fan only activates once the heat exchanger is warm, preventing cold air blasts during start-up.
- · INVERTER-driven compressor: An inverter-driven compressor generates the precise capacity needed to maintain a temperature set point.
- · Joint Lap DC Motor: Innovative Joint Lap DC Motor leads to high efficiency and reliability
- Outdoor unit directed power: The outdoor unit powers the indoor unit, and should a power outage occur, the system is automatically restarted when
 power returns
- Pulse Amplitude Modulation technology: Pulse Amplitude Modulation technology enhances energy efficiency by adjusting the power supply to optimize
 compressor performance, ensuring precise capacity control and reduced energy consumption.
- · Quiet operation: Quiet operation units are as quiet as a typical conversation, and most indoor units are whisper quiet.
- Single-zone: One outdoor unit connects to one indoor unit to control the comfort in a single space.

SPECIFICATIONS: MLZ-KX12NL & SUZ-AA12NL

	Maximum Capacity	Btu/h	11,300
	Rated Capacity	Btu/h	11,300
Cooling at 95F ¹	Minimum Capacity	Btu/h	2,900
	Maximum Power Input	W	950
	Rated Power Input	W	950
	Moisture Removal	Pints/h	2.6
	Sensible Heat Factor	-	0.74
	Power Factor [208V / 230V]	%	96 / 96
	Maximum Capacity	Btu/h	14,600
	Rated Capacity	Btu/h	14,600
	Minimum Capacity	Btu/h	5,000
eating at 47F ²	Maximum Power Input	W	1,330
	·	W	1,330
	Rated Power Input		· · · · · · · · · · · · · · · · · · ·
	Power Factor [208V / 230V]		96 / 96
	Maximum Capacity	Btu/h	9,600
eating at 17F3	Rated Capacity	Btu/h	9,600
· ·	Maximum Power Input	W	1,080
	Rated Power Input	W	1,080
eating at 5F4	Maximum Capacity	Btu/h	7,700
	Maximum Power Input	W	1,128
eating at -4F ⁵	Maximum Capacity	Btu/h	6,400
	SEER2		20.7
	EER2 ¹		11.8
	HSPF2 [IV]		10
ficiency	COP at 47°F ²		3.2
liciency	COP at 17°F at Maximum Capacity ³		2.6
	COP at 5°F at Maximum Capacity ⁴		2
	COP at -4°F at Maximum Capacity⁵		2.03
	ENERGY STAR® Certified		Yes
	Voltage, Phase, Frequency	V AC / V AC, , Hz	208 / 230, 1, 60
	Guaranteed Voltage Range	V AC	198 - 253
	Voltage: Indoor - Outdoor, S1-S2	V AC	208/230
ectrical	Voltage: Indoor - Outdoor, S2-S3	V DC	12-24
	Short-circuit Current Rating [SCCR]	kA	5
	Recommended Fuse/Breaker Size (Outdoor)	A	15
	Recommended Wire Size [Indoor - Outdoor]	AWG	14
	MCA	A	1
	Fan Motor Output	W	30
	Airflow Rate at Cooling, Dry	CFM	212, 258, 297, 332
	Airflow Rate at Heating, Dry	CFM	212, 272, 311, 350
	Sound Pressure Level [Cooling]	dB (A)	27, 32, 36, 40
Indoor Unit	Sound Pressure Level [Heating]	dB (A)	26, 32, 36, 40
	Drain Pipe Size O.D.	inch [mm]	1-1/16 [26]
	Unit Dimensions (W x D x H)	inch x inch x inch [mm x mm x 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)	inch x inch x inch [mm x mm x mm]	46-3/8 x 11-3/16 x 15-3/4 [1,177 x 284 x 400]
		lbs [kg]	34 [15.50]
	Unit Weight		
	Unit Weight Package Weight	lbs [kg]	42 [19]

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: 47°F DB, 15°F WB)
'Heating at 15°F (Indoor: 70°F DB, 60°F WB // Outdoor: 47°F DB, 15°F WB)
'Heating at 4°F (Indoor: 70°F DB, 60°F WB // Outdoor: 4°F DB, 5°F WB)
'Heating at 4°F (Indoor: 70°F DB, 60°F WB // Outdoor: 4°F DB, 5°F WB)
'Heating at 4°F (Indoor: 70°F DB, 60°F WB // Outdoor: 4°F DB, 5°F WB)
'Heating at 4°F (Indoor: 70°F DB, 60°F WB // Outdoor: 4°F DB, 5°F WB)
'Heating at 4°F (Indoor: 70°F DB, 60°F WB // Outdoor: 4°F DB, 5°F WB)
'Heating at 5°F (Indoor: 70°F DB, 60°F WB // Outdoor: 4°F DB, 5°F WB)
'Heating at 5°F (Indoor: 70°F DB, 60°F WB // Outdoor: 4°F DB, 5°F WB)
'Heating at 5°F (Indoor: 70°F DB, 60°F WB // Outdoor: 4°F DB, 5°F WB)
'Heating at 5°F (Indoor: 70°F DB, 60°F WB // Outdoor: 4°F DB, 5°F WB)
'Heating at 5°F (Indoor: 70°F DB, 60°F WB // Outdoor: 4°F DB, 5°F WB)
'Heating at 5°F (Indoor: 70°F DB, 60°F WB // Outdoor: 4°F DB, 5°F WB)
'Heating at 5°F (Indoor: 70°F DB, 60°F WB // Outdoor: 4°F DB, 5°F WB)
'Heating at 5°F (Indoor: 70°F DB, 60°F WB // Outdoor: 4°F DB, 5°F WB)
'Heating at 5°F (Indoor: 70°F DB, 60°F WB // Outdoor: 4°F DB, 5°F WB)
'Heating at 5°F (Indoor: 70°F DB, 60°F WB // Outdoor: 4°F DB, 5°F WB)
'Heating at 5°F (Indoor: 70°F DB, 60°F WB // Outdoor: 4°F DB, 40°F WB)
'Heating at 5°F (Indoor: 70°F DB, 60°F WB // Outdoor: 4°F DB, 40°F WB)
'Heating at 5°F (Indoor: 70°F DB, 60°F WB // Outdoor: 4°F DB, 40°F WB)
'Heating at 5°F (Indoor: 70°F DB, 60°F WB // Outdoor: 4°F DB, 40°F WB)
'Heating at 5°F WB // Outdoor: 4°F DB, 5°F WB)
'Heating at 5°F (Indoor: 70°F DB, 60°F WB // Outdoor: 4°F DB, 40°F WB)
'Heating at 5°F (Indoor: 70°F DB, 60°F WB // Outdoor: 4°F DB, 40°F WB)
'Heating at 5°F (Indoor: 70°F DB, 60°F WB // Outdoor: 4°F DB, 40°F WB)
'Heating at 5°F WB // Outdoor: 4°F DB, 50°F WB // Outdoor: 4°F DB, 40°F WB // Outdoor: 4°F DB, 40°F WB // Outdoor: 4°F DB, 40°F WB // Outdoor: 4°F DB, 40

SPECIFICATIONS: MLZ-KX12NL & SUZ-AA12NL

	MCA	A	14
	MOCP	A	23
	Fan Motor Output	W	55
	Airflow Rate Cooling	CFM	1,229
	Airflow Rate Heating	CFM	1,172
	Defrost Method		Reverse Cycle
	Coating on Heat Exchanger (Bluefin, Sea Coast)		Yes, Yes
	Sound Pressure Level, Cooling ¹	dB (A)	49
	Sound Pressure Level, Heating ²	dB (A)	51
tdoor Unit	Compressor Type		Twin Rotary
	Compressor Model		SRB092FQFMC
	Compressor Oil [Type // Charge]	Type // oz	RM68EH // 11.83
	External Finish Color		Munsell No.3Y 7.8/1.1
	Base Pan Heater		Optional
	Unit Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	31-1/2 x 11-1/4 x 21-5/8 [800 x 285 x 550]
	Package Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	37-1/16 x 15 x 24-13/16 [940 x 380 x 630]
	Unit Weight	lbs [kg]	81 [37]
	Package Weight	lbs [kg]	88.18 [40]
ODU Operating Temp. Range	Cooling Intake Maximum Air Temp [Maximum / Minimum*]	°FDB	115 / 14
	Cooling Thermal Lock-out / Re-start Temperatures**	°FDB	-1 / 3
	Heating Air Temp [Maximum / Minimum]	°FDB, °FWB / °FDB, °FWB	75, 65 / -4, -5
	Heating Thermal Lock-out / Re-start Temperatures**	°FDB	-14 / -4
	Туре		R454B
friencum	Pre-Charged Refrigerant Amount	Ibs	2
frigerant	Maximum Pre-Charged Piping Length	ft [m]	65 [7.60]
	Additional Refrigerant Charge Per Additional Piping Length	oz/ft	0
	Gas Pipe Size O.D. [Flared]	inch [mm]	3/8 [9.52]
	Liquid Pipe Size O.D. [Flared]	inch [mm]	1/4 [6.35]
ping	Maximum Piping Length	ft [m]	65 [19.80]
	Maximum Height Difference	ft [m]	40 [12.10]
	Maximum Number of Bends		10

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: 17°F DB, 15°F WB)

*Heating at 5°F (Indoor: 70°F DB, 60°F WB // Outdoor: 5°F DB, 45°F WB)

*Heating at 5°F (Indoor: 70°F DB, 60°F WB // Outdoor: 5°F DB, 45°F WB)

*Heating at 4°F (Indoor: 70°F DB, 60°F WB // Outdoor: 4°F DB, 5°F WB)

*Indoor/Outdoor Unit Operating Temperature Range (Cooling Air Temp [Maximum / Minimum]):

*Applications should be restricted to comfort cooling only: equipment cooling applications are not recommended for low ambient temperatures outditions.

**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.

INDOOR UNIT ACCESSORIES: MLZ-KX12NL

Wireless Remote Controller	Lockdown Bracket for Wireless Handheld Remote Controllers	RCMKP1CB
	RedLINK Wireless Remote Controller	MHK2
Condensate	Blue Diamond Advanced Mini Condensate Pump w Reservoir Sensor 208230V recommended	X87-721
	Blue Diamond MaxiBlue Advanced Mini Condensate Pump w Reservoir Sensor 110V up to 48000 BTUH recommended	X87-711
	Blue Diamond MegaBlue Advanced Condensate Pump w Reservoir Sensor	X87-835
	Blue Diamond MicroBlue Mini Condensate Pump 110208230V up to 18000 BTUH	X86-003
	Blue Diamond Sensor Extension Cable 15 Ft	C13-103
	Refco Condensate Pump 100-240 VAC up to 120000 BTUH	COMBI
	Sauermann Condensate Pump	SI30-230
	Airzone Wired Blueface Controller Black	AZZBSBLUEZEROCN
	Airzone Wired Blueface Controller White	AZZBSBLUEZEROCB
	Airzone Wireless Lite Controller Black	AZZBSLITERN
	Airzone Wireless Lite Controller White	AZZBSLITERB
	Airzone Wireless Think Controller Black	AZZBSTHINKRN
	Airzone Wireless Think Controller White	AZZBSTHINKRB
control Interface	IT Extender for kumo station	PAC-WHS01IE-E
	kumo station for the Comfort app	PAC-WHS01HC-E
	M-Net I/O Control Interface for M-Series ²	MAC-334IF-E
	Procon BACnet and Modbus Interface	PAC-UKPRC001-CN-1
	Thermostat Interface for 3rd Party Thermostats	PAC-US445CN-1
	Wireless Interface Adapter for the Comfort app	PAC-USWHS002-WF-2
	Anti-allergy Enzyme Filter	MAC-408FT-E
lter	Microparticle Filter	MAC-EMF515FT-E
	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
neset	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
ower Supplies and Auxiliary components	Backup Heat Relay Kit Adapter for CN24 or CN152 Connector	CN24RELAY-KIT-CM3
•	Deluxe Wired MA Remote Controller ¹	PAR-42MAAUB
fined Demote Controller	Simple Direct Wired Remote Controller	PAC-SDW01RC-1
/ired Remote Controller	Simple MA Remote Controller ¹	PAC-YT53CRAU-J
	Touch MA Wired Remote Controller ¹	PAR-CT01MAU-SB
Remote Sensor	Remote Temperature Sensor for MFZ MLZ and MSZ models	M21EAA307
	Wireless temperature and humidity sensor for the Comfort app	PAC-USWHS003-TH-1
rain Hose	Flexible Mini-Split Drain Hose	DRX-16
	30A600VUL fits 2 X 4 utility box - Black	TAZ-MS303
Disconnect Switch	30A600VUL fits 2 X 4 utility box - White	TAZ-MS303W
Grille	Grille (required)	MLP-449WU

NOTES

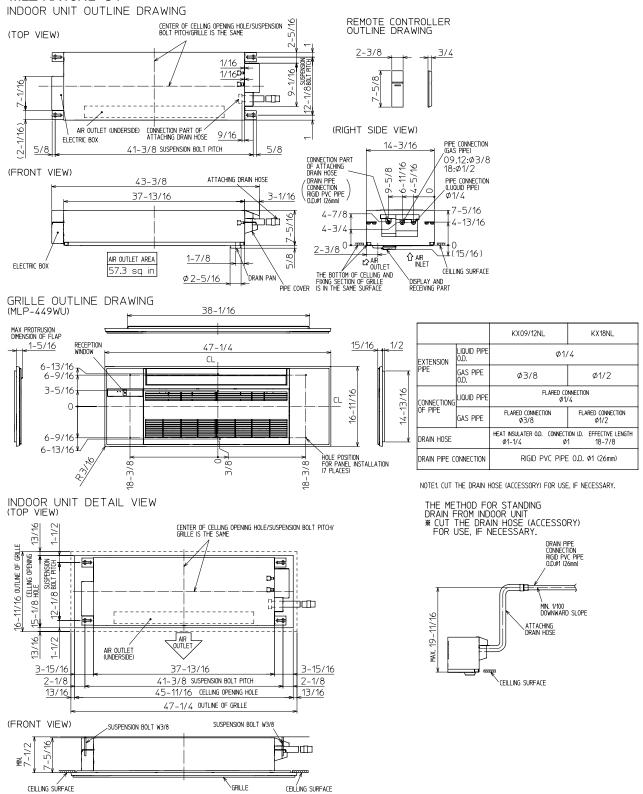
2Allows IDU Connection to MA Controller:
Deluxe MA Remote Controller
Simple MA Controller
Touch MA Controller
1Requires MAC-334IF-E Adapter
1Requires MAC-334IF-E Adapter
1Requires MAC-334IF-E Adapter

OUTDOOR UNIT ACCESSORIES: SUZ-AA12NL

Control/Service Tool	M- & P-Series Maintenance Tool Cable Set	M21EC0397
Control/Service 1001	Maintenance Tool Interface	PAC-USCMS-MN-1
Mounting Pad	Condensing Unit Mounting Pad 16 x 36 x 3	ULTRILITE1
Mini-Split Wire	14 Gauge 4 wire Armored MiniSplit Cable250 ft roll	SW144-250
	14 Gauge 4 wire Armored MiniSplit Cable50 ft roll	SW144-50
wiiii-opiit vviie	14 Gauge 4 wire MiniSplit Cable250 ft roll	S144-250
	14 Gauge 4 wire MiniSplit Cable50 ft roll	S144-50
	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 3-14 inch Mounting Base Pair - Plastic	DSD-400P
	Outdoor Unit Stand 12 High	QSMS1201M
Hail Guards	Hail Guard	HG-B4
Optional Defrost Heater	Base Heater	MAC-640BH-U1
Air Outlet Guide	Air Outlet Guide	MAC-881SG-E
Port Adaptor	Adaptor 12 x 38	PAC-SK88RJ-E
Orain Socket	Drain Socket	MAC-871DS
Snow/Rain Diverter	SnowRain Diverter	SRD-1
Muffler	Muffler for Connection to SLZ	MAC-001MF-E
Centralized Drain Pan	Centralized Drain Pan	PAC-SG63DP-E

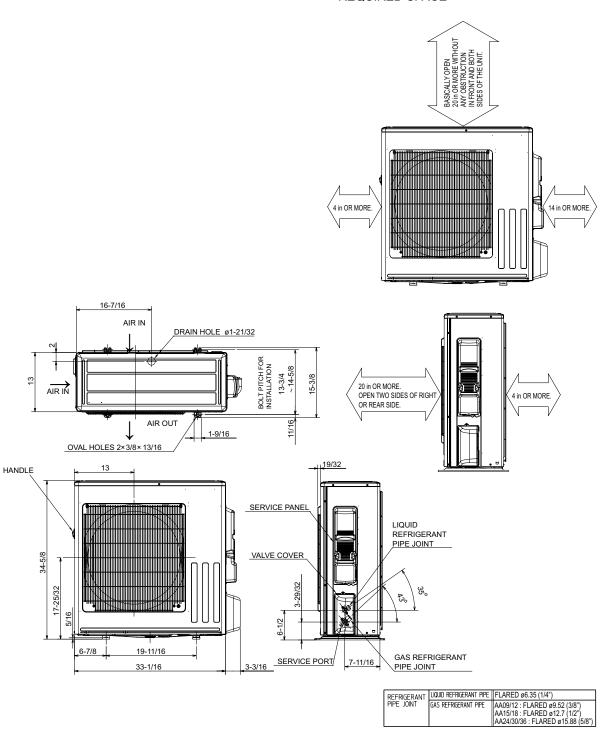
INDOOR UNIT DIMENSIONS: MLZ-KX12NL

MLZ-KX09NL- U1 MLZ-KX12NL- U1 MLZ-KX18NL- U1



OUTDOOR UNIT DIMENSIONS: SUZ-AA12NL

REQUIRED SPACE



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