MFZ-KX09NL & SUZ-AA09NLHZ
9,000 BTU/H FLOOR-MOUNTED INDOOR UNIT
9,000 BTU/H HYPER HEAT PUMP OUTDOOR UNIT

Job Name:

System Reference: Date:

Indoor Unit MFZ-KX09NL

Outdoor Unit SUZ-AA09NLHZ

INDOOR UNIT FEATURES

- 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.
- Floor front panel access to the filter for ease of cleaning
- Mounts on floor or 5” above floor
- Multi-flow Vane for faster heating
- Multiple control options including: Hand-held Remote Controller (provided with unit), comfort app, third-party interfaces and both wired and wireless controllers
- Multiple fan speed options: Low, Medium, High, Powerful, Auto
- Nano Platinum Filter: This filter has a large capture area and incorporates nanometer-sized platinum-ceramic particles and is designed to reduce the presence of certain nonliving particles, while deodorizing the circulating air.
- Perfect for difficult areas that may be smaller or don’t have usable space on the walls
- Powerful Mode: Temporarily drops or raises the set point and fan speed in order to quickly bring the room to the desired temperature.
- Quiet operation: Outdoor units are as quiet as a typical conversation, and most indoor units are whisper quiet.
- Unit can be recessed mounted into wall
- Up and down swing-mode: An indoor unit with this capability can move air up and down throughout the room like an oscillating fan using the horizontal vanes.
- 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.
- Built-in base pan heater
- Hot-Start Technology: Hot-Start Technology ensures the fan only activates once the heat exchanger is warm, preventing cold air blasts during start-up.
- Hyper-Heating INVERTER® (H2i®): 100% heating capacity down to 5° F with guaranteed heating down to -13° F.
- 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.

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SPECIFICATIONS: MFZ-KX09NL & SUZ-AA09NLHZ

Cooling at 95F[1]	Maximum Capacity	Btu/h	9,000
	Rated Capacity	Btu/h	9,000
	Minimum Capacity	Btu/h	5,000
	Maximum Power Input	W	720
	Rated Power Input	W	720
	Moisture Removal	Pints/h	0.4
	Sensible Heat Factor	-	0.96
	Power Factor [208V / 230V]	%	91 / 91
Heating at 47F[2]	Maximum Capacity	Btu/h	15,000
	Rated Capacity	Btu/h	12,000
	Minimum Capacity	Btu/h	8,200
	Maximum Power Input	W	1,200
	Rated Power Input	W	910
	Power Factor [208V / 230V]	%	95 / 95
Heating at 17F[3]	Maximum Capacity	Btu/h	12,000
	Rated Capacity	Btu/h	7,300
	Maximum Power Input	W	1,250
	Rated Power Input	W	870
Heating at 5F[4]	Maximum Capacity	Btu/h	12,000
	Maximum Power Input	W	1,758
Heating at -13F[8]	Maximum Capacity	Btu/h	7,300
Efficiency	SEER2		17
	EER2[1]		12.5
	HSPF2 [IV]		10
	COP at 47°F[2]		3.8
	COP at 17°F at Maximum Capacity[3]		2.8
	COP at 5°F at Maximum Capacity[4]		2
	COP at -13°F at Maximum Capacity[8]		1.79
	ENERGY STAR® Certified		Yes
Electrical	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
	Voltage: Indoor - Outdoor, S2-S3	V DC	12-24
	Short-circuit Current Rating [SCCR]	kA	5
	Recommended Fuse/Breaker Size (Outdoor)	A	25
	Recommended Wire Size [Indoor - Outdoor]	AWG	14
Indoor Unit	MCA	A	1
	Fan Motor Output	W	30
	Airflow Rate at Cooling, Dry	CFM	138, 198, 272, 360, 417
	Airflow Rate at Cooling, Wet	CFM	117, 168, 231, 306, 354
	Airflow Rate at Heating, Dry	CFM	138, 191, 254, 328, 417
	Sound Pressure Level [Cooling]	dB (A)	21, 27, 34, 41, 46
	Sound Pressure Level [Heating]	dB (A)	21, 27, 34, 40, 46
	Dual Barrier Coating on Heat Exchanger		No
	Unit Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	29-1/2 x 8-7/16 x 23-5/8 [750 x 215 x 600]
	Package Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	27-9/16 x 11-3/16 x 32-11/16 [700 x 300 x 830]
	Unit Weight	lbs [kg]	33 [15]
	Package Weight	lbs [kg]	40 [18]
	Fan Motor Type		DC Motor
IDU Operating Temp. Range	Cooling Intake Air Temp [Maximum / Minimum]	°FDB, °FWB / °FDB, °FWB	90, 73 / 67, 57
	Heating Intake Air Temp [Maximum / Minimum]	°FDB	80 / 70

NOTES
[1]Cooling at 95°F (Indoor: 80°F DB, 67°F WB // Outdoor: 95°F DB, 75°F WB)
[2]Heating at 47°F (Indoor: 70°F DB, 60°F WB // Outdoor: 47°F DB, 43°F WB)
[3]Heating at 17°F (Indoor: 70°F DB, 60°F WB // Outdoor: 17°F DB, 15°F WB)
[4]Heating at 5°F (Indoor: 70°F DB, 60°F WB // Outdoor: 5°F DB, 4°F WB)
[8]Heating at -13°F (Indoor: 70°F DB, 60°F WB // Outdoor: -13°F DB, -14°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 temperature conditions.
** 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.

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Outdoor Unit	MCA	A	24
	MOCP	A	41
	Fan Motor Output	W	50
	Airflow Rate Cooling	CFM	2,193
	Airflow Rate Heating	CFM	1,949
	Defrost Method		Reverse Cycle
	Coating on Heat Exchanger (Bluefin, Sea Coast)		Yes, Yes
	Sound Pressure Level, Cooling[1]	dB (A)	54
	Sound Pressure Level, Heating[2]	dB (A)	55
	Compressor Type		Twin Rotary
	Compressor Model		SRB172FQHMT
	Compressor Oil [Type // Charge]	Type // oz	RM68EH // 14.54
	External Finish Color		Munsell No.3Y 7.8/1.1
	Base Pan Heater		Built-in
	Unit Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	33-1/16 x 13 x 34-5/8 [840 x 330 x 880]
	Package Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	38-5/8 x 16-9/16 x 39 [980 x 420 x 990]
	Unit Weight	lbs [kg]	115 [52.16]
	Package Weight	lbs [kg]	133 [60.33]
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 / -13, -14
	Heating Thermal Lock-out / Re-start Temperatures**	°FDB	-22.5 / -14
Refrigerant	Type		R454B
	Pre-Charged Refrigerant Amount	lbs	3
	Maximum Pre-Charged Piping Length	ft [m]	25 [7.60]
	Additional Refrigerant Charge Per Additional Piping Length	oz/ft	0.22
Piping	Gas Pipe Size O.D. [Flared]	inch [mm]	3/8 [9.52]
	Liquid Pipe Size O.D. [Flared]	inch [mm]	1/4 [6.35]
	Maximum Piping Length	ft [m]	100 [30.48]
	Maximum Height Difference	ft [m]	50 [15.24]
	Maximum Number of Bends		10

NOTES
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[3]Heating at 17°F (Indoor: 70°F DB, 60°F WB // Outdoor: 17°F DB, 15°F WB)
[4]Heating at 5°F (Indoor: 70°F DB, 60°F WB // Outdoor: 5°F DB, 4°F WB)
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* Indoor/Outdoor Unit Operating Temperature Range (Cooling Air Temp [Maximum / Minimum]):
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INDOOR UNIT ACCESSORIES: MFZ-KX09NL

Control Interface	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
	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
Wired Remote Controller	Deluxe Wired MA Remote Controller [1]	PAR-42MAAUB
	Simple Direct Wired Remote Controller	PAC-SDW01RC-1
	Simple MA Remote Controller [1]	PAC-YT53CRAU-J
	Touch MA Wired Remote Controller [1]	PAR-CT01MAU-SB
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
Filter	Anti-allergy Enzyme Filter	MAC-408FT-E
Lineset	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
	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
Disconnect Switch	30A600VUL fits 2 X 4 utility box - Black	TAZ-MS303
	30A600VUL fits 2 X 4 utility box - White	TAZ-MS303W
Wireless Remote Controller	Lockdown Bracket for Wireless Handheld Remote Controllers	RCMKP1CB
	RedLINK Wireless Remote Controller	MHK2
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
Drain Hose	Flexible Mini-Split Drain Hose	DRX-16
Floor Mount Air Guide	Floor Mount Air Guide	MAC-760FD-E
Power Supplies and Auxiliary Components	Backup Heat Relay Kit Adapter for CN24 or CN152 Connector	CN24RELAY-KIT-CM3

NOTES
[2]Allows IDU Connection to MA Controller:
Deluxe MA Remote Controller
Simple MA Controller
Touch MA Controller
[1]Requires MAC-334IF-E Adapter
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OUTDOOR UNIT ACCESSORIES: SUZ-AA09NLHZ

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
	14 Gauge 4 wire MiniSplit Cable250 ft roll	S144-250
	14 Gauge 4 wire MiniSplit Cable50 ft roll	S144-50
Control/Service Tool	M- & P-Series Maintenance Tool Cable Set	M21EC0397
	Maintenance Tool Interface	PAC-USCMS-MN-1
Stand	18 Single Fan Stand	QSMS1801M
	24 Single Fan Stand	QSMS2401M
	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
Drain Socket	Drain Socket	MAC-871DS
Mounting Pad	Condensing Unit Mounting Pad 16 x 36 x 3	ULTRILITE1
Air Outlet Guide	Air Outlet Guide	MAC-886SG-E
Snow/Rain Diverter	SnowRain Diverter	SRD-3
Muffler	Muffler for Connection to SLZ	MAC-001MF-E
NOTES		

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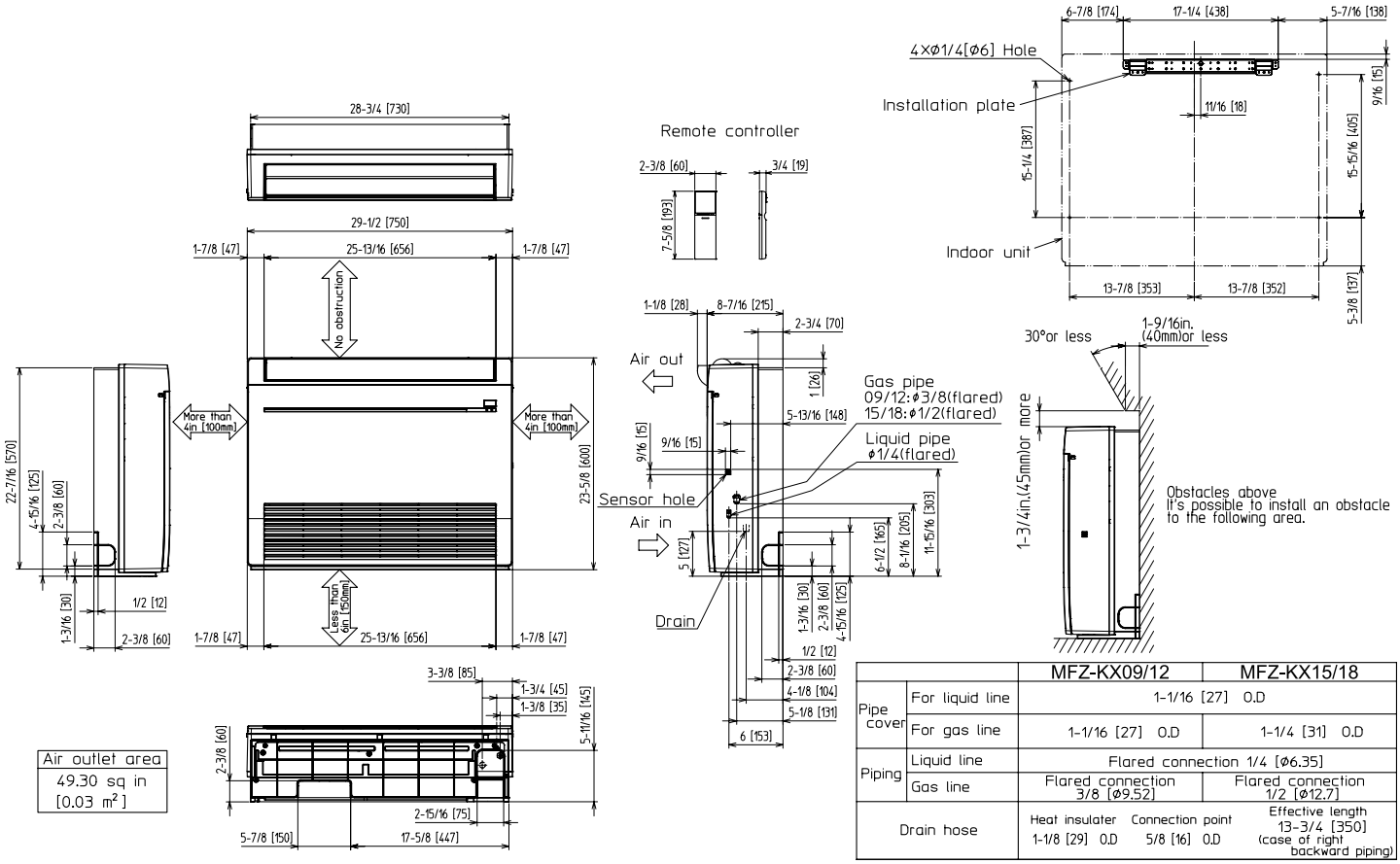
INDOOR UNIT DIMENSIONS: MFZ-KX09NL

MFZ-KX09NL- U1
MFZ-KX12NL- U1
MFZ-KX15NL- U1
MFZ-KX18NL- U1



Air outlet area
49.30 sq in [0.03 m²]

		MFZ-KX09/12	MFZ-KX15/18
Pipe cover	For liquid line	1-1/16 [27] O.D	
	For gas line	1-1/16 [27] O.D	1-1/4 [31] O.D
Piping	Liquid line	Flared connection 1/4 [Ø6.35]	
	Gas line	Flared connection 3/8 [Ø9.52]	Flared connection 1/2 [Ø12.7]
Drain hose		Heat insulater 1-1/8 [29] O.D / Connection point 5/8 [16] O.D	Effective length 13-3/4 [350] (case of right backward piping)

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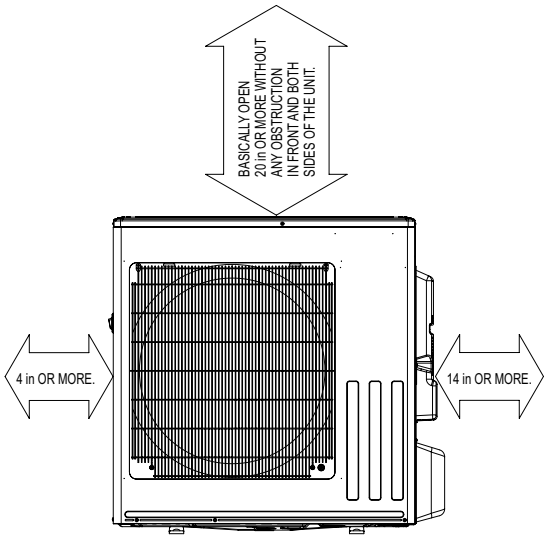
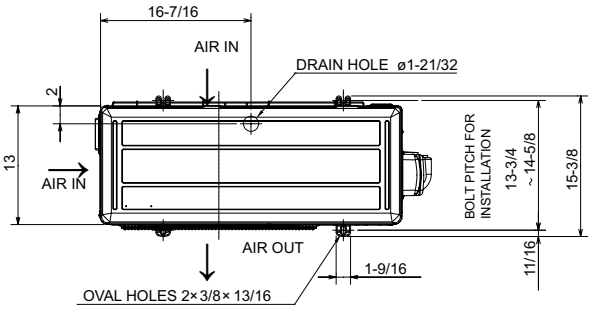
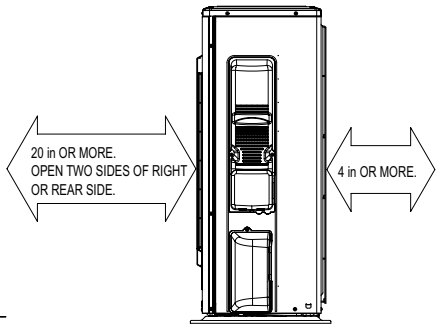
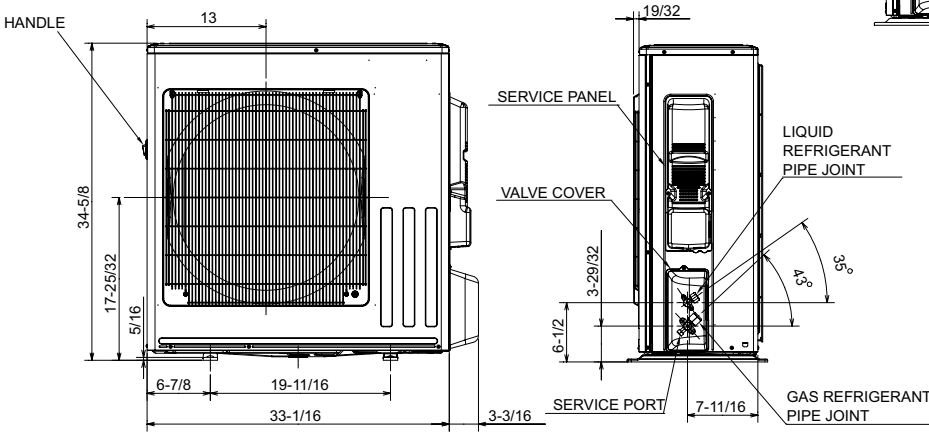
OUTDOOR UNIT DIMENSIONS: SUZ-AA09NLHZ

REQUIRED SPACE









REFRIGERANT PIPE JOINT	LIQUID REFRIGERANT PIPE	FLARED ø6.35 (1/4")
	GAS REFRIGERANT PIPE	AA09/12 : FLARED ø9.52 (3/8") AA15/18 : FLARED ø12.7 (1/2") AA24/30/36 : FLARED ø15.88 (5/8")

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