

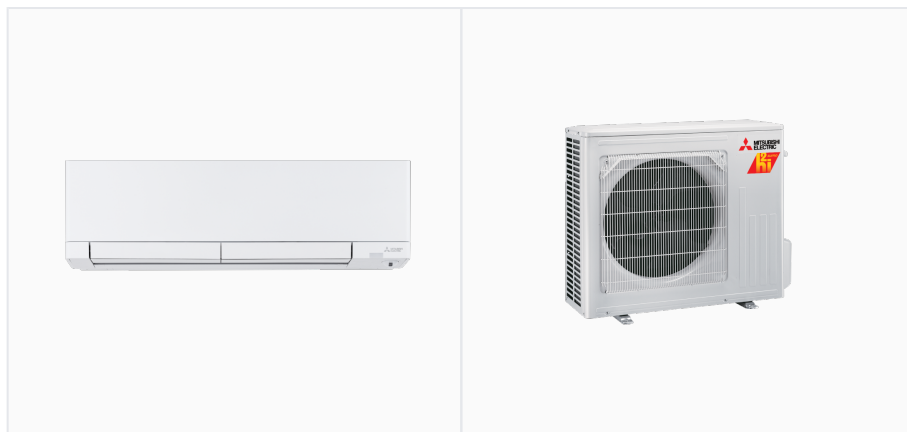
MSZ-FX09NL & MUZ-FX09NLHZ
9,000 BTU/H WALL-MOUNTED INDOOR UNIT
9,000 BTU/H H2I SUMO™ HYPER-HEATING INVERTER OUTDOOR UNIT



Job Name:

System Reference:

Date:



INDOOR Unit ... MSZ-FX09NL

OUTDOOR Unit ... MUZ-FX09NLHZ

INDOOR UNIT FEATURES

- Smart Dry Plus Mode: The Smart Dry+ mode intelligently provides precise humidity control with minimal over-cooling of the space.
- Wi-Fi Enabled: Wi-Fi enabled units pair with the Comfort app for complete control over temperature, fan speeds, modes, schedules, and more.
- Dual Barrier Coating: Dual Barrier Coating reduces the collection of contaminants like dust, fibers, smoke, and oil on the inner surface of the indoor unit.
- Dual Barrier Fusion: Dual Barrier Fusion reduces the collection of contaminants like dust, fibers, smoke, and oil on the vane of the indoor unit. Dual Barrier Fusion's shielding power is fused directly into the material of the vanes during manufacturing.
- 3D i-see Sensor® (Built-in): This advanced sensor scans the room for occupancy, then adjusts temperature and airflow based on user preferences, and saves energy when a room is empty.
- Dual Vane: Dual-Vane feature allows for airflow direction to be set independently using two vanes, which can then deliver airflow across wide areas of a room, levels of a zone, or to two people in different locations at the same time.

OUTDOOR UNIT FEATURES

- H2i sumo™ Hyper-Heating: 100% heating performance at outdoor temperatures -10° F with guaranteed operation down to -22° F.
- Inverter Driven Compressor: Inverter technology uses only the precise amount of energy needed to keep a space comfortable.
- Blue Fin Coating: Anti-corrosion coating that protects the outdoor heat exchanger against salt, sulfur, and other airborne contaminants that impact the efficiency and performance of the outdoor units.
- Seacoast Protection: Designed to protect against the corrosive effects of environments that are in close proximity to the sea.
- Flash Injection: Flash Injection enables optimum compressor performance when it is running at higher speeds to maintain indoor comfort during cold temperatures.
- Hot Start: The system will warm up before blowing air, preventing blasts of cold air at start-up.

SPECIFICATIONS: MSZ-FX09NL & MUZ-FX09NLHZ

Cooling at 95F ¹	Maximum Capacity	Btu/h	15000
	Rated Capacity	Btu/h	9000
	Minimum Capacity	Btu/h	2500
	Maximum Power Input	W	1580
	Rated Power Input	W	490
	Moisture Removal	Pints/h	0
	Sensible Heat Factor		1
	Power Factor [208V / 230V]	%	87 / 88
Heating at 47F ²	Maximum Capacity	Btu/h	21300
	Rated Capacity	Btu/h	12000
	Minimum Capacity	Btu/h	3100
	Maximum Power Input	W	2130
	Rated Power Input	W	710
	Power Factor [208V / 230V]	%	94 / 93
Heating at 17F ³	Maximum Capacity	Btu/h	16300
	Rated Capacity	Btu/h	7700
	Maximum Power Input	W	2000
	Rated Power Input	W	650
Heating at 5F ⁵	Maximum Capacity	Btu/h	14700
	Maximum Power Input	W	1950
Heating at -5F ⁷	Maximum Capacity	Btu/h	14500
Heating at -10F ⁸	Maximum Capacity	Btu/h	12000
Heating at -22F ¹⁰	Maximum Capacity	Btu/h	8700
Efficiency	SEER2		33.10
	EER2 ¹		18.35
	HSPF2 [IV]		13.30
	COP at 47°F ²		4.95
	COP at 17°F at Maximum Capacity ³		2.38
	COP at 5°F at Maximum Capacity ⁵		2.20
	COP at -4°F at Maximum Capacity ⁶		
	COP at -5°F at Maximum Capacity ⁷		2.04
	COP at -10°F at Maximum Capacity ⁸		2
	ENERGY STAR® Certified		Yes
Electrical	Voltage, Phase, Frequency	V AC / V AC , Ø , Hz	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 (Outdoor)	A	15
	Recommended Wire Size [Indoor - Outdoor]	AWG	14
Indoor Unit	MCA	A	1
	Fan Motor Output	W	40
	Fan Motor Type		DC Motor
	Airflow Rate at Cooling, Dry	CFM	198 , 233 , 311 , 406 , 526
	Airflow Rate at Cooling, Wet	CFM	168 , 198 , 264 , 345 , 447
	Airflow Rate at Heating, Dry	CFM	177 , 247 , 311 , 406 , 477
	Sound Pressure Level [Cooling]	dB (A)	20 , 23 , 29 , 36 , 44
	Sound Pressure Level [Heating]	dB (A)	20 , 24 , 29 , 36 , 42
	Dual Barrier Coating on Heat Exchanger		Yes
	Dual Barrier Coating on Fan		Yes
	External Finish Color		Munsell 1.0Y 9.2/0.2
	Unit Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	39 -9/32 x 9-3/4 x 12 [998 x 247 x 305]
	Package Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	43 -5/16 x 12-3/4 x 15-3/4 [1100 x 330 x 400]
	Unit Weight	lbs [kg]	31.40 [14.20]
	Package Weight	lbs [kg]	36.40 [16.50]

Notes

¹Cooling (Indoor // Outdoor) °F 80 DB, 67 WB // 95 DB, 75 WB - test

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

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

⁷Heating at -5°F (Indoor // Outdoor) °F 70 DB, 60 WB // -5 DB, -6 WB

⁸Heating at -10°F (Indoor // Outdoor) °F 70 DB, 60 WB // -10 DB, -11 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.

¹⁰Heating at -22°F (Indoor // Outdoor) °F 70 DB, 60 WB // -22 DB, -23 WB

SPECIFICATIONS: MSZ-FX09NL & MUZ-FX09NLHZ

IDU Operating Temp. Range	Cooling Intake Air Temp [Maximum / Minimum]	deg F , deg F / deg F , deg F	90 , 73 / 67 , 57
	Heating Intake Air Temp [Maximum / Minimum]	deg F	80 / 70
Outdoor Unit	MCA	A	14
	MOCP	A	15
	Fan Motor Output	W	55
	Airflow Rate Cooling	CFM	1815
	Airflow Rate Heating	CFM	1321
	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)	49
	Compressor Type		Twin Rotary
	Compressor Model		SRB140FQHMT
	Compressor Oil [Type // Charge]	// oz	RM68EH // 11.80
	External Finish Color		Munsell 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]	31-1/2 x 11-1/4 x 28-1/8 [800 x 285 x 714]
	Package Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	37 x 15 x 35 [940 x 380 x 890]
ODU Operating Temp. Range	Unit Weight	lbs [kg]	89 [40.4]
	Package Weight	lbs [kg]	103.50 [46.90]
	Cooling Intake Air Temp [Maximum / Minimum*]	F	115 / 14
	Cooling Thermal Lock-out / Re-start Temperatures**	F	-4 / 0
Refrigerant	Heating Intake Air Temp [Maximum / Minimum]	F , F / F , F	75 , 65 / -22 , -23.8
	Heating Thermal Lock-out / Re-start Temperatures**	F	-34 / -23
	Type		R454B
	Pre-Charged Refrigerant Amount	lbs , oz	2 , 12
	Maximum Pre-Charged Piping Length	ft [m]	25 [7.50]
Piping	Additional Refrigerant Charge Per Additional Piping Length	oz/ft	0.22
	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]	65 [20]
	Maximum Height Difference	ft [m]	40 [12]
	Maximum Number of Bends		10

Notes

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⁸Heating at -10°F (Indoor // Outdoor) °F 70 DB, 60 WB // -10 DB, -11 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.

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INDOOR UNIT ACCESSORIES: MSZ-FX09NL

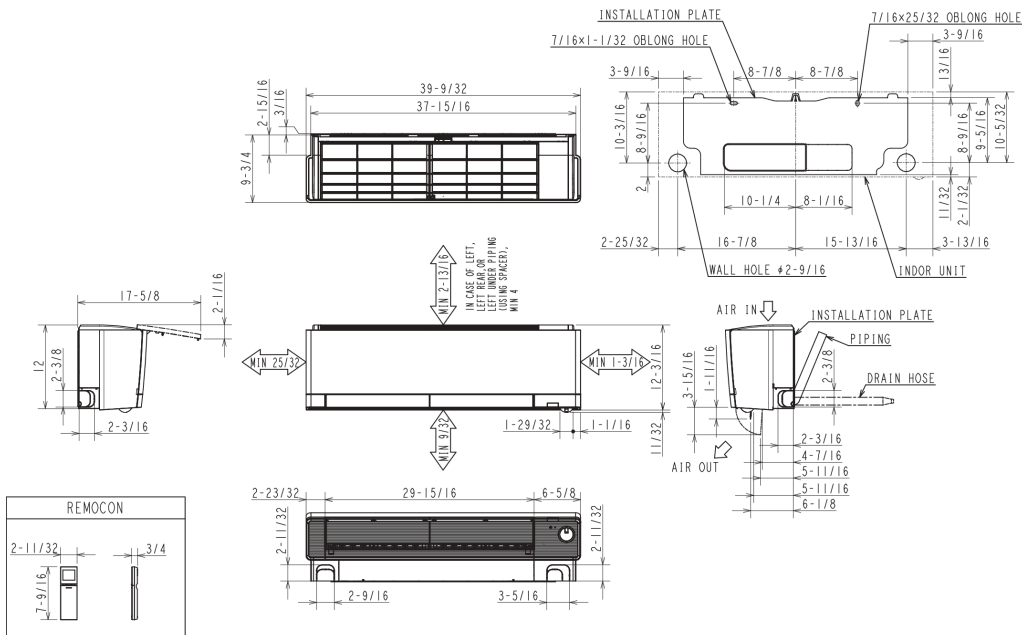
Condensate	Refco Condensate Pump 100-240V up to 120k BTU/h	☐ COMBI
	Blue Diamond MicroBlue Condensate Pump 115-230V up to 18k BTU/h	☐ X86-003
	Blue Diamond MegaBlue Condensate Pump with Reservoir Sensor 115-230V up to 170k BTU/h	☐ X87-835
	Drain Pan Level Sensor/Control	☐ SS610E
	Blue Diamond (MaxiBlue Advanced) Mini Condensate Pump w/ Reservoir & Sensor (110V) up to 48,000 BTU/H [recommended]	☐ X87-711
	Blue Diamond MaxiBlue Condensate Pump with Reservoir Sensor 115-230V up to 48k BTU/h	☐ X88-721
	Blue Diamond Sensor Extension Cable 15 Ft	☐ C13-103
	Blue Diamond MicroBlue Condensate Pump with Fascia Kit 115-230V up to 18k BTU/h	☐ X86-011
	Sauermann Condensate Pump 120-230V up to 60k BTU/h	☐ SI30-230
	Refco Condensate Removal Pump with Wall Mount Enclosure 120-240V up to 120k BTU/h	☐ GOBI-II
Control Interface	kumo station® for Comfort app	☐ PAC-WHS01HC-E
	Procon BACnet® and Modbus® Interface	☐ PAC-UKPRC001-CN-1
	Airzone Wireless Think Controller White	☐ AZZBSTHINKRB
	IT Extender	☐ PAC-WHS01IE-E
	Airzone Wired Blueface Controller White	☐ AZZBSBLUEZEROCB
	Wireless Interface 2 for Comfrot app	☐ PAC-USWHS002-WF-2
	Airzone Wired Blueface Controller Black	☐ AZZBSBLUEZEROCN
	M-Net I/O Control Interface for M-Series ²	☐ MAC-334IF-E
	Airzone Wireless Lite Controller Black	☐ AZZBSLITERN
	Thermostat Interface for 3rd Party Thermostats	☐ PAC-US445CN-1
	Airzone Wireless Think Controller Black	☐ AZZBSTHINKRN
	Airzone Wireless Lite Controller White	☐ AZZBSLITERB
Disconnect Switch	30A600VUL fits 2 X 4 utility box - Black	☐ TAZ-MS303
	(30A/600V/UL) [fits 2" X 4" utility box] - White	☐ TAZ-MS303W
Drain Hose	Flexible Mini-Split Drain Hose	☐ DRX-16
Filter	Platinum Deodorizing Filter	☐ MAC-3010FT-E
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
	30 x 1/4 x 30 3/8 Lineset Twin-Tube Insulation	☐ MLS143812T-30
	15 x 1/4 x 15 3/8 Lineset Twin-Tube Insulation	☐ MLS143812T-15
N/A		☐ Unknown
Remote Sensor	Remote Temperature Sensor for MFZ MLZ and MSZ models	☐ M21EAA307
	Wireless temperature and humidity sensor for Comfort app	☐ PAC-USWHS003-TH-1
Terminal Signal Adapter	Backup Heat Relay Kit	☐ CN24RELAY-KIT-CM3
Wired Remote Controller	Simple MA Remote Controller ¹	☐ PAC-YT53CRAU-J
	Simple Direct Wired Remote Controller	☐ PAC-SDW01RC-1
	Deluxe MA Wired Remote Controller ¹	☐ PAR-42MAAUB
	Touch MA Remote Controller ¹	☐ PAR-CT01MAU-SB
Wireless Remote Controller	Wireless RedLINK™ Remote Controller	☐ MHK2
	Lockdown Bracket for Wireless Handheld Remote Controllers	☐ RCMKP1CB
Notes		

OUTDOOR UNIT ACCESSORIES: MUZ-FX09NLHZ

Control/Service Tool	Maintenance Tool Interface	☐	PAC-USCMS-MN-1
	M- & P-Series Maintenance Tool Cable Set	☐	M21EC0397
Mini-Split Wire	14 Gauge 4 wire MiniSplit Cable50 ft roll	☐	S144-50
	16 Gauge 4 wire MiniSplit Cable250 ft roll	☐	S164-250
	16 Gauge 4 wire Armored MiniSplit Cable250 ft roll	☐	SW164-250
	14 Gauge 4 wire Armored MiniSplit Cable250 ft roll	☐	SW144-250
	14 Gauge 4 wire Armored MiniSplit Cable50 ft roll	☐	SW144-50
	16 Gauge 4 wire MiniSplit Cable50 ft roll	☐	S164-50
	14 Gauge 4 wire MiniSplit Cable250 ft roll	☐	S144-250
	16 Gauge 4 wire Armored MiniSplit Cable50 ft roll	☐	SW164-50
Mounting Pad	Condensing Unit Mounting Pad 16 x 36 x 3	☐	ULTRILITE1
Snow/Rain Diverter	SnowRain Diverter	☐	SRD-1
Stand	Outdoor Unit Stand 12 High	☐	QSMS1201M
	18 Single Fan Stand	☐	QSMS1801M
	Outdoor Unit 3-14 inch Mounting Base Pair - Plastic	☐	DSD-400P
	Condenser Wall Bracket	☐	QSWB2000M-1
	24 Single Fan Stand	☐	QSMS2401M
	Condenser Wall Bracket - Stainless Steel Finish	☐	QSWBSS
Notes			

INDOOR UNIT DIMENSIONS: MSZ-FX09NL

MSZ-FX06NL-U1
MSZ-FX09NL-U1
MSZ-FX12NL-U1
MSZ-FX15NL-U1
MSZ-FX18NL-U1
MSZ-FX24NL-U1



MSZ-FX06/09/12NL

PIPING	INSULATION	ø1-9/16 O.D
	LIQUID LINE	ø1/4 - 19-11/16 (FLARED CONNECTION ø1/4)
	GAS LINE	ø3/8 - 17-3/4 (FLARED CONNECTION ø3/8)
DRAIN HOSE		INSULATION ø1-5/32 CONNECTED PART ø5/8 O.D

MSZ-FX15/18NL

PIPING	INSULATION	ø1-9/16 O.D
	LIQUID LINE	ø1/4 - 19-11/16 (FLARED CONNECTION ø1/4)
	GAS LINE	ø3/8 - 17-3/4 (FLARED CONNECTION ø1/2)
DRAIN HOSE		INSULATION ø1-5/32 CONNECTED PART ø5/8 O.D

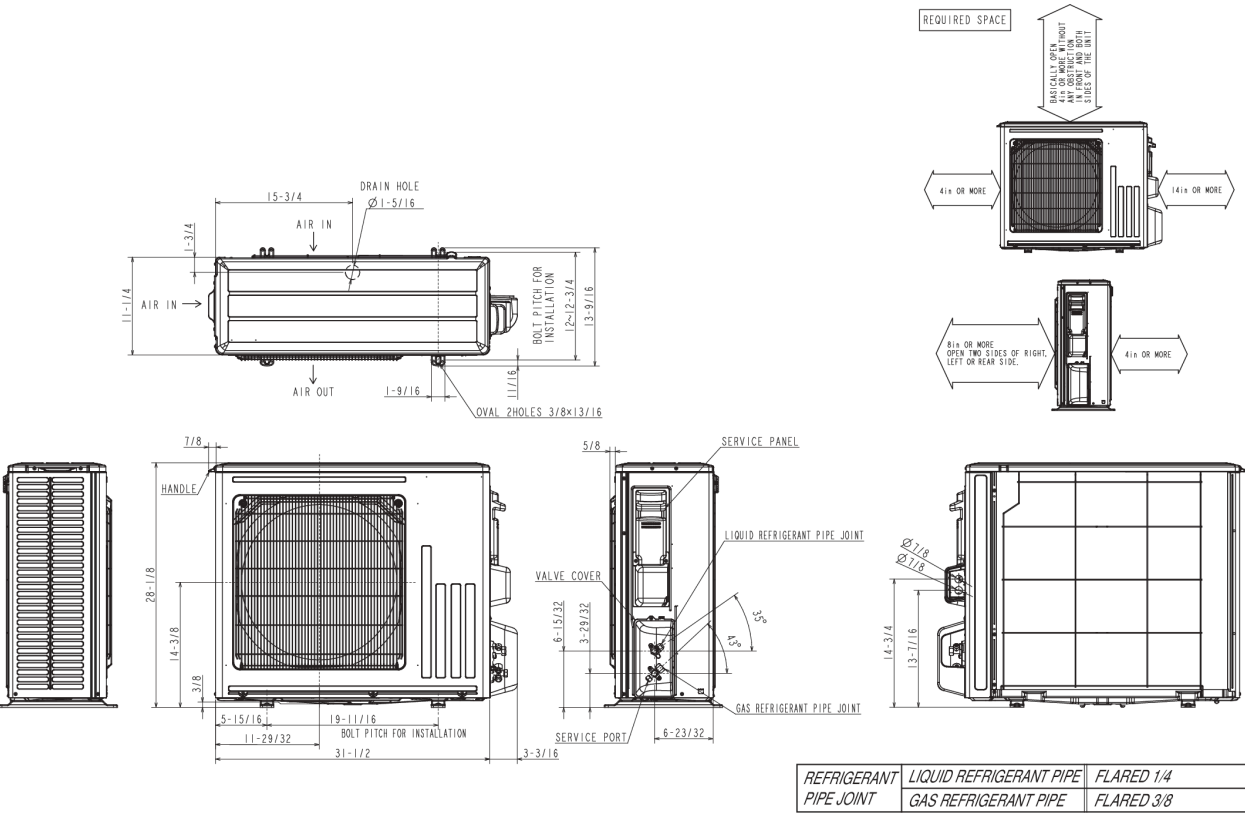
MSZ-FX24NL

PIPING	INSULATION	ø1-9/16 O.D
	LIQUID LINE	ø1/4 - 19-11/16 (FLARED CONNECTION ø1/4)
	GAS LINE	ø15/32 - 17-3/4 (FLARED CONNECTION ø5/8)
DRAIN HOSE		INSULATION ø1-5/32 CONNECTED PART ø5/8 O.D

**The diameter of the gas line piping is $\phi 3/8$ in one spot.*

OUTDOOR UNIT DIMENSIONS: MUZ-FX09NLHZ

MUZ-FX06NLHZ-U1
MUZ-FX09NLHZ-U1
MUZ-FX12NLHZ-U1



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