

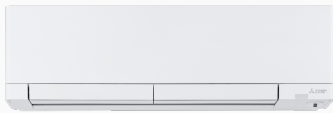
MSZ-FX24NL & MUZ-FX24NLHZ
20,800 BTU/H WALL-MOUNTED INDOOR UNIT
20,800 BTU/H H2I SUMO™ HYPER-HEATING INVERTER OUTDOOR UNIT



Job Name:

System Reference:

Date:



INDOOR Unit ... MSZ-FX24NL

OUTDOOR Unit ... MUZ-FX24NLHZ

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-FX24NL & MUZ-FX24NLHZ

Cooling at 95F ¹	Maximum Capacity	Btu/h	26500
	Rated Capacity	Btu/h	20800
	Minimum Capacity	Btu/h	2500
	Maximum Power Input	W	3370
	Rated Power Input	W	1560
	Moisture Removal	Pints/h	4
	Sensible Heat Factor		0.78
	Power Factor [208V / 230V]	%	98 / 98
Heating at 47F ²	Maximum Capacity	Btu/h	36200
	Rated Capacity	Btu/h	19800
	Minimum Capacity	Btu/h	5500
	Maximum Power Input	W	3590
	Rated Power Input	W	1500
	Power Factor [208V / 230V]	%	100 / 100
Heating at 17F ³	Maximum Capacity	Btu/h	29200
	Rated Capacity	Btu/h	13600
	Maximum Power Input	W	3800
	Rated Power Input	W	1320
Heating at 5F ⁵	Maximum Capacity	Btu/h	26600
	Maximum Power Input	W	3790
Heating at -5F ⁷	Maximum Capacity	Btu/h	22400
Heating at -10F ⁸	Maximum Capacity	Btu/h	19800
Heating at -22F ¹⁰	Maximum Capacity	Btu/h	11700
Efficiency	SEER ²		23.50
	EER ²¹		13.35
	HSPF ² [IV]		10.50
	COP at 47°F ²		3.86
	COP at 17°F at Maximum Capacity ³		2.24
	COP at 5°F at Maximum Capacity ⁵		2.04
	COP at -4°F at Maximum Capacity ⁶		
	COP at -5°F at Maximum Capacity ⁷		1.84
	COP at -10°F at Maximum Capacity ⁸		1.72
	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	20
	Recommended Wire Size [Indoor - Outdoor]	AWG	14
	MCA	A	1
Indoor Unit	Fan Motor Output	W	40
	Fan Motor Type		DC Motor
	Airflow Rate at Cooling, Dry	CFM	272 , 378 , 484 , 586 , 720
	Airflow Rate at Cooling, Wet	CFM	231 , 321 , 411 , 498 , 612
	Airflow Rate at Heating, Dry	CFM	272 , 353 , 470 , 586 , 749
	Sound Pressure Level [Cooling]	dB (A)	27 , 34 , 41 , 47 , 53
	Sound Pressure Level [Heating]	dB (A)	26 , 32 , 40 , 47 , 55
	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]	31.60 [14.30]
	Package Weight	lbs [kg]	36.70 [16.60]

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-FX24NL & MUZ-FX24NLHZ

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	22
	MOCP	A	25
	Fan Motor Output	W	55
	Airflow Rate Cooling	CFM	2204
	Airflow Rate Heating	CFM	2440
	Defrost Method		Reverse Cycle
	Coating on Heat Exchanger (Bluefin, Sea Coast)		Yes , Yes
	Sound Pressure Level, Cooling ¹	dB (A)	55
	Sound Pressure Level, Heating ²	dB (A)	55
	Compressor Type		Twin Rotary
	Compressor Model		SRB220FQYMT
	Compressor Oil [Type // Charge]	// oz	RM68EH // 15.60
	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]	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 3/4 x 16-3/4 x 40-3/4 [980 x 420 x 1030]
ODU Operating Temp. Range	Unit Weight	lbs [kg]	124 [56.2]
	Package Weight	lbs [kg]	141.20 [64]
	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	3 , 6
	Maximum Pre-Charged Piping Length	ft [m]	50 [15]
Piping	Additional Refrigerant Charge Per Additional Piping Length	oz/ft	0.22
	Gas Pipe Size O.D. [Flared]	inch [mm]	5/8 [15.88]
	Liquid Pipe Size O.D. [Flared]	inch [mm]	1/4 [6.35]
	Maximum Piping Length	ft [m]	100 [30]
	Maximum Height Difference	ft [m]	50 [15]
	Maximum Number of Bends		10

Notes

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*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-FX24NL

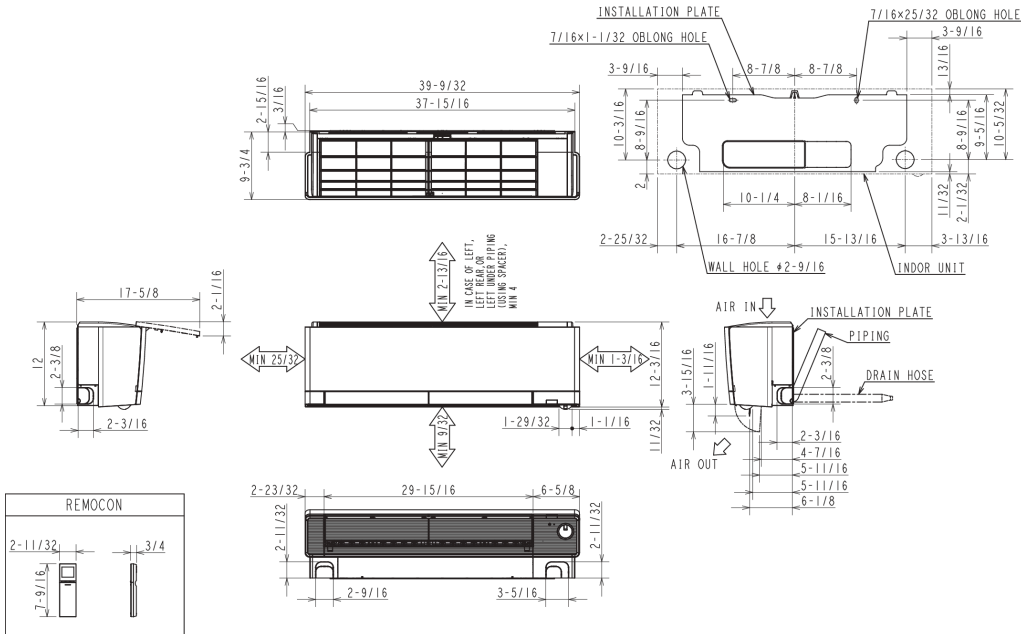
Condensate	Blue Diamond Sensor Extension Cable 15 Ft	☐ C13-103
	Blue Diamond MegaBlue Condensate Pump with Reservoir Sensor 115-230V up to 170k BTU/h	☐ X87-835
	Refco Condensate Pump 100-240V up to 120k BTU/h	☐ COMBI
	Blue Diamond MaxiBlue Condensate Pump with Reservoir Sensor 115-230V up to 48k BTU/h	☐ X88-721
	Refco Condensate Removal Pump with Wall Mount Enclosure 120-240V up to 120k BTU/h	☐ GOBI-II
	Sauermann Condensate Pump 120-230V up to 60k BTU/h	☐ SI30-230
	Blue Diamond (MaxiBlue Advanced) Mini Condensate Pump w/ Reservoir & Sensor (110V) up to 48,000 BTU/H [recommended]	☐ X87-711
	Drain Pan Level Sensor/Control	☐ SS610E
Control Interface	Airzone Wireless Think Controller Black	☐ AZZBSTHINKRN
	M-Net I/O Control Interface for M-Series ²	☐ MAC-334IF-E
	Airzone Wireless Think Controller White	☐ AZZBSTHINKRB
	Wireless Interface 2 for Comfrot app	☐ PAC-USWHS002-WF-2
	Airzone Wireless Lite Controller Black	☐ AZZBSLITERN
	IT Extender	☐ PAC-WHS01IE-E
	kumo station® for Comfort app	☐ PAC-WHS01HC-E
	Airzone Wired Blueface Controller Black	☐ AZZBSBLUEZEROCN
	Airzone Wireless Lite Controller White	☐ AZZBSLITERB
	Procon BACnet® and Modbus® Interface	☐ PAC-UKPRC001-CN-1
	Thermostat Interface for 3rd Party Thermostats	☐ PAC-US445CN-1
	Airzone Wired Blueface Controller White	☐ AZZBSBLUEZEROCB
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	1/4 x 5/8 Lineset Twin-Tube Insulation - 65 feet	☐ MLS145812T-65
	1/4 x 5/8 Lineset Twin-Tube Insulation - 100 feet	☐ MLS145812T-100
	1/4 x 5/8 Lineset Twin-Tube Insulation - 30 feet	☐ MLS145812T-30
	1/4 x 5/8 Lineset Twin-Tube Insulation - 15 feet	☐ MLS145812T-15
N/A		☐ Unknown
Remote Sensor	Wireless temperature and humidity sensor for Comfort app	☐ PAC-USWHS003-TH-1
	Remote Temperature Sensor for MFZ MLZ and MSZ models	☐ M21EAA307
Terminal Signal Adapter	Backup Heat Relay Kit	☐ CN24RELAY-KIT-CM3
Wired Remote Controller	Touch MA Remote Controller ¹	☐ PAR-CT01MAU-SB
	Simple MA Remote Controller ¹	☐ PAC-YT53CRAU-J
	Deluxe MA Wired Remote Controller ¹	☐ PAR-42MAAUB
	Simple Direct Wired Remote Controller	☐ PAC-SDW01RC-1
Wireless Remote Controller	Wireless RedLINK™ Remote Controller	☐ MHK2
	Lockdown Bracket for Wireless Handheld Remote Controllers	☐ RCMKP1CB
Notes		

OUTDOOR UNIT ACCESSORIES: MUZ-FX24NLHZ

Air Outlet Guide	Air Outlet Guide	☐	MAC-890SG-E
Control/Service Tool	Maintenance Tool Interface	☐	PAC-USCMS-MN-1
	M- & P-Series Maintenance Tool Cable Set	☐	M21EC0397
Hail Guards	Hail Guard	☐	HG-A7
Mini-Split Wire	16 Gauge 4 wire Armored MiniSplit Cable50 ft roll	☐	SW164-50
	14 Gauge 4 wire MiniSplit Cable250 ft roll	☐	S144-250
	16 Gauge 4 wire MiniSplit Cable50 ft roll	☐	S164-50
	14 Gauge 4 wire Armored MiniSplit Cable250 ft roll	☐	SW144-250
	16 Gauge 4 wire Armored MiniSplit Cable250 ft roll	☐	SW164-250
	14 Gauge 4 wire Armored MiniSplit Cable50 ft roll	☐	SW144-50
	14 Gauge 4 wire MiniSplit Cable50 ft roll	☐	S144-50
	16 Gauge 4 wire MiniSplit Cable250 ft roll	☐	S164-250
Mounting Pad	Condensing Unit Mounting Pad 16 x 36 x 3	☐	ULTRILITE1
Snow/Rain Diverter	SnowRain Diverter	☐	SRD-3
Stand	18 Single Fan Stand	☐	QSMS1801M
	Condenser Wall Bracket	☐	QSWB2000M-1
	Outdoor Unit Stand 12 High	☐	QSMS1201M
	Condenser Wall Bracket - Stainless Steel Finish	☐	QSWBSS
	Outdoor Unit 3-14 inch Mounting Base Pair - Plastic	☐	DSD-400P
	24 Single Fan Stand	☐	QSMS2401M
Notes			

INDOOR UNIT DIMENSIONS: MSZ-FX24NL

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

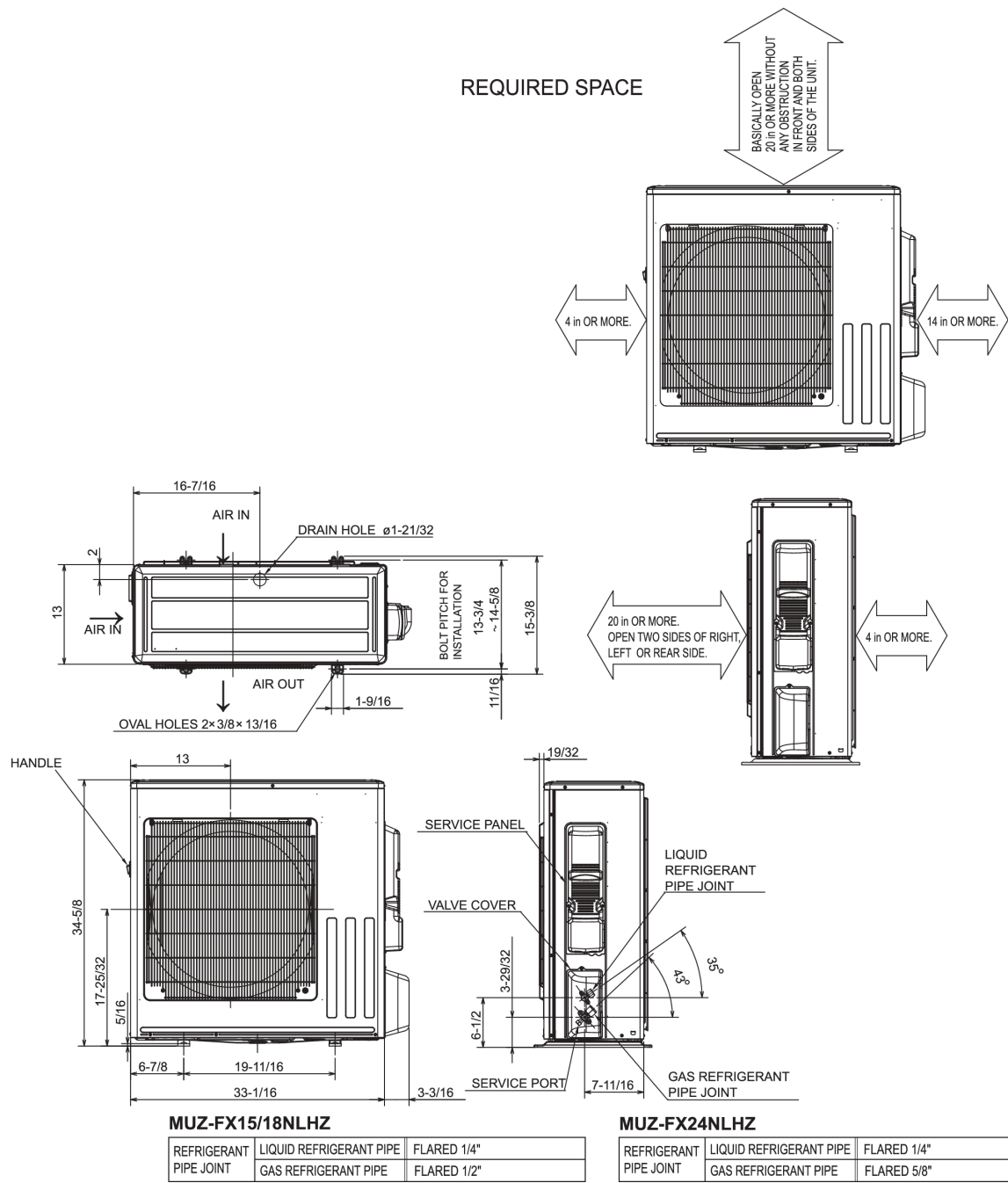
MSZ-FX24NL

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 ø3/8 in one spot.

OUTDOOR UNIT DIMENSIONS: MUZ-FX24NLHZ

MUZ-FX15NLHZ-U1
MUZ-FX18NLHZ-U1
MUZ-FX24NLHZ-U1



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