

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

- 3D i-see Sensor® (Built-in): The advanced sensor scans each room to produce a complete thermal profile that includes heat signatures based upon size, temperature and movement, then adjusts temperature and airflow based on user preference, and saves energy according to room occupancy.
- Dual Barrier Coating: The patented Dual Barrier Coating reduces the collection of contaminants like dust, fibers, smoke, and oil on the inner surface of the heat pump, resulting in optimal airflow and easier maintenance.
- Dual Barrier Fusion: The patented Dual Barrier Fusion reduces the collection of contaminants like dust, fibers, smoke, and oil on the vanes of the indoor unit, keeping it clean all year long. Dual Barrier Fusion's shielding power is fused directly into the material of the horizontal and vertical vanes during manufacturing to maintain effectiveness and longevity of the components, and to promote vane cleanliness and reduce odors.
- 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.
- 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.
- Multiple control options including: Back-lit screen 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
- 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.
- Slim Design: Slim wall-mounted indoor units provide zone comfort control
- Smart Dry +: The Smart Dry+ mode intelligently provides precise humidity control with minimal over-cooling of the space.
- Triple Action Filtration: Standard Microparticle and Electrostatic Enzyme Filters, along with an optional Carbon-based Deodorizing Filter. It effectively removes non-living particulate matter like dust and smoke, utilizes nanotechnology to absorb and neutralize odors, and employs static electricity to attract and filter charged airborne particles.
- 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.
- H2i sumo™ Hyper-Heating INVERTER: 100% heating capacity at outdoor temperatures -10° F with guaranteed operation down to -22° F.
- Hot-start technology: The fan only blows air when the heat exchanger has warmed, preventing blasts of cold air at start-up.

SPECIFICATIONS: MSZ-FX24NL & MUZ-FX24NLHZ

Cooling at 95F ¹	Maximum Capacity	Btu/h	26,500
	Rated Capacity	Btu/h	20,800
	Minimum Capacity	Btu/h	2,500
	Maximum Power Input	W	3,370
	Rated Power Input	W	1,560
	Moisture Removal	Pints/h	4
	Sensible Heat Factor	-	0.78
Heating at 47F ²	Power Factor [208V / 230V]	%	98 / 98
	Maximum Capacity	Btu/h	36,200
	Rated Capacity	Btu/h	19,800
	Minimum Capacity	Btu/h	5,500
	Maximum Power Input	W	3,590
	Rated Power Input	W	1,500
	Power Factor [208V / 230V]	%	100 / 100
Heating at 17F ³	Maximum Capacity	Btu/h	29,200
	Rated Capacity	Btu/h	13,600
	Maximum Power Input	W	3,800
	Rated Power Input	W	1,320
Heating at 5F ⁴	Maximum Capacity	Btu/h	26,600
	Maximum Power Input	W	3,790
Heating at -5F ⁵	Maximum Capacity	Btu/h	22,400
Heating at -10F ⁷	Maximum Capacity	Btu/h	19,800
Heating at -22F ⁹	Maximum Capacity	Btu/h	11,700
Efficiency	SEER2		23.5
	EER2 ¹		13.35
	HSPF2 [IV]		10.5
	COP at 47°F ²		3.86
	COP at 17°F at Maximum Capacity ³		2.24
	COP at 5°F at Maximum Capacity ⁴		2.04
	COP at -5°F at Maximum Capacity ⁵		1.84
	COP at -10°F at Maximum Capacity ⁷		1.72
Electrical	ENERGY STAR® Certified		Yes
	Voltage, Phase, Frequency	V AC / V AC, , 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
Indoor Unit	MCA	A	1
	Fan Motor Output	W	40
	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
	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 [1,100 x 330 x 400]
	Unit Weight	lbs [kg]	31.60 [14.30]
	Package Weight	lbs [kg]	36.70 [16.60]
	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

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

²Heating at 47°F (Indoor: 70°F DB, 60°F WB // Outdoor: 47°F DB, 43°F WB)

³Heating at 17°F (Indoor: 70°F DB, 60°F WB // Outdoor: 17°F DB, 15°F WB)

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

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

⁷Heating at -10°F (Indoor: 70°F DB, 60°F WB // Outdoor: -10°F DB, -11°F WB)

⁹Heating at -22°F (Indoor: 70°F DB, 60°F WB // Outdoor: -22°F DB, -23°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.

SPECIFICATIONS: MSZ-FX24NL & MUZ-FX24NLHZ

Outdoor Unit	MCA	A	22
	MOCP	A	25
	Fan Motor Output	W	55
	Airflow Rate Cooling	CFM	2,204
	Airflow Rate Heating	CFM	2,440
	Defrost Method		Reverse Cycle
	Coating on Heat Exchanger (Bluefin, Sea Coast)		Yes, No
	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]	Type // 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]	33 -1/16 x 13 x 34-5/8 [840 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 1,030]
ODU Operating Temp. Range	Unit Weight	lbs [kg]	124 [56.2]
	Package Weight	lbs [kg]	141.20 [64]
	Cooling Intake Maximum Air Temp [Maximum / Minimum*]	°FDB	115 / 14
	Cooling Thermal Lock-out / Re-start Temperatures**	°FDB	-4 / 0
Refrigerant	Heating Air Temp [Maximum / Minimum]	°FDB, °FWB / °FDB, °FWB	75, 65 / -22, -23.8
	Heating Thermal Lock-out / Re-start Temperatures**	°FDB	-34 / -23
	Type		R454B
	Pre-Charged Refrigerant Amount	lbs, oz	3, 6
Piping	Maximum Pre-Charged Piping Length	ft [m]	50 [15]
	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

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INDOOR UNIT ACCESSORIES: MSZ-FX24NL

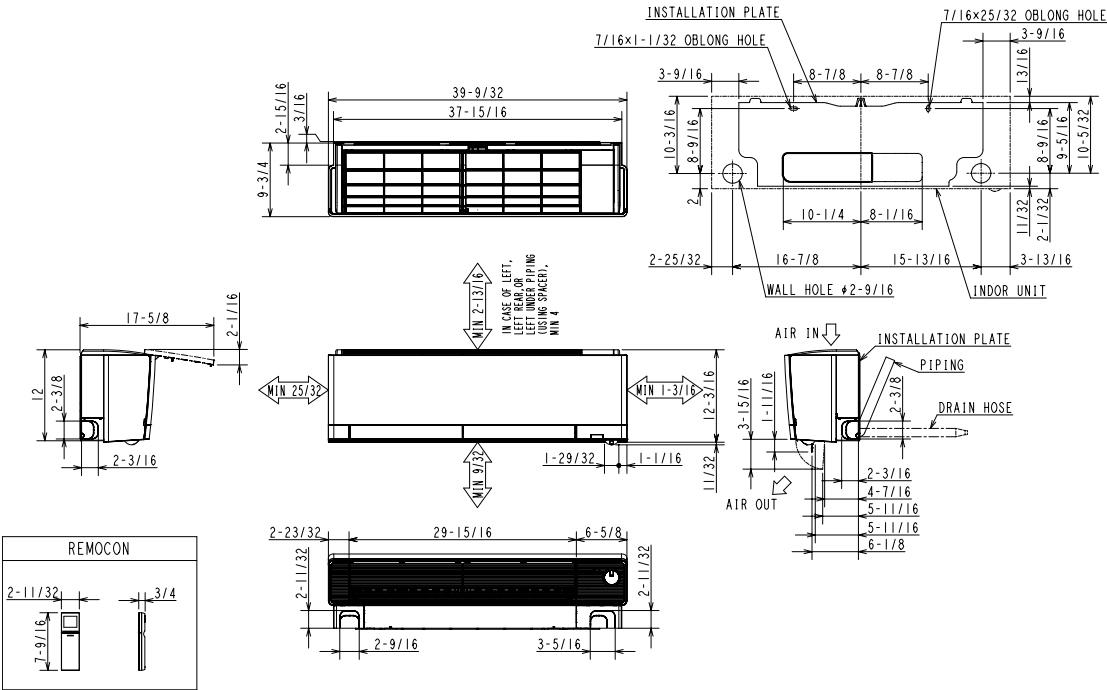
Drain Hose	Flexible Mini-Split Drain Hose	DRX-16
Filter	Electro Static Anti-allergy Enzyme Filter	MAC-2330FT-E
	Microparticle Filter	MAC-EMF515FT-E
	Platinum Deodorizing Filter	MAC-3010FT-E
Condensate	Blue Diamond Advanced Mini Condensate Pump w Reservoir Sensor 208230V recommended	X87-721
	Blue Diamond 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 Sensor Extension Cable 15 Ft	C13-103
	Drain Pan Level SensorControl	SS610E
	Refco Condensate Pump 100-240 VAC	GOBI-II
	Refco Condensate Pump 100-240 VAC up to 120000 BTUH	COMBI
	Sauermann Condensate Pump	SI30-230
Lineset	100 x 1/4 x 100 x 5/8 Lineset Twin-Tube Insulation	MLS145812T-100
	15 x 1/4 x 15 x 5/8 Lineset Twin-Tube Insulation	MLS145812T-15
	30 x 1/4 x 30 x 5/8 Lineset Twin-Tube Insulation	MLS145812T-30
	65 x 1/4 x 65 x 5/8 Lineset Twin-Tube Insulation	MLS145812T-65
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
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
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
Disconnect Switch	30A600VUL fits 2 X 4 utility box - Black	TAZ-MS303
	30A600VUL fits 2 X 4 utility box - White	TAZ-MS303W
MLS145812T-50	Accessories	50 x 14 x 50 x 58 Lineset Twin-Tube Insulation
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 ¹ Requires MAC-334IF-E Adapter ¹ Requires MAC-334IF-E Adapter		

OUTDOOR UNIT ACCESSORIES: MUZ-FX24NLHZ

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
	16 Gauge 4 wire Armored MiniSplit Cable250 ft roll	SW164-250
	16 Gauge 4 wire Armored MiniSplit Cable50 ft roll	SW164-50
	16 Gauge 4 wire MiniSplit Cable250 ft roll	S164-250
	16 Gauge 4 wire MiniSplit Cable50 ft roll	S164-50
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
Control/Service Tool	M- & P-Series Maintenance Tool Cable Set	M21EC0397
	Maintenance Tool Interface	PAC-USCMS-MN-1
Air Outlet Guide	Air Outlet Guide	MAC-890SG-E
Snow/Rain Diverter	SnowRain Diverter	SRD-3
Hail Guards	Hail Guard	HG-A7
Mounting Pad	Condensing Unit Mounting Pad 16 x 36 x 3	ULTRILITE1
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

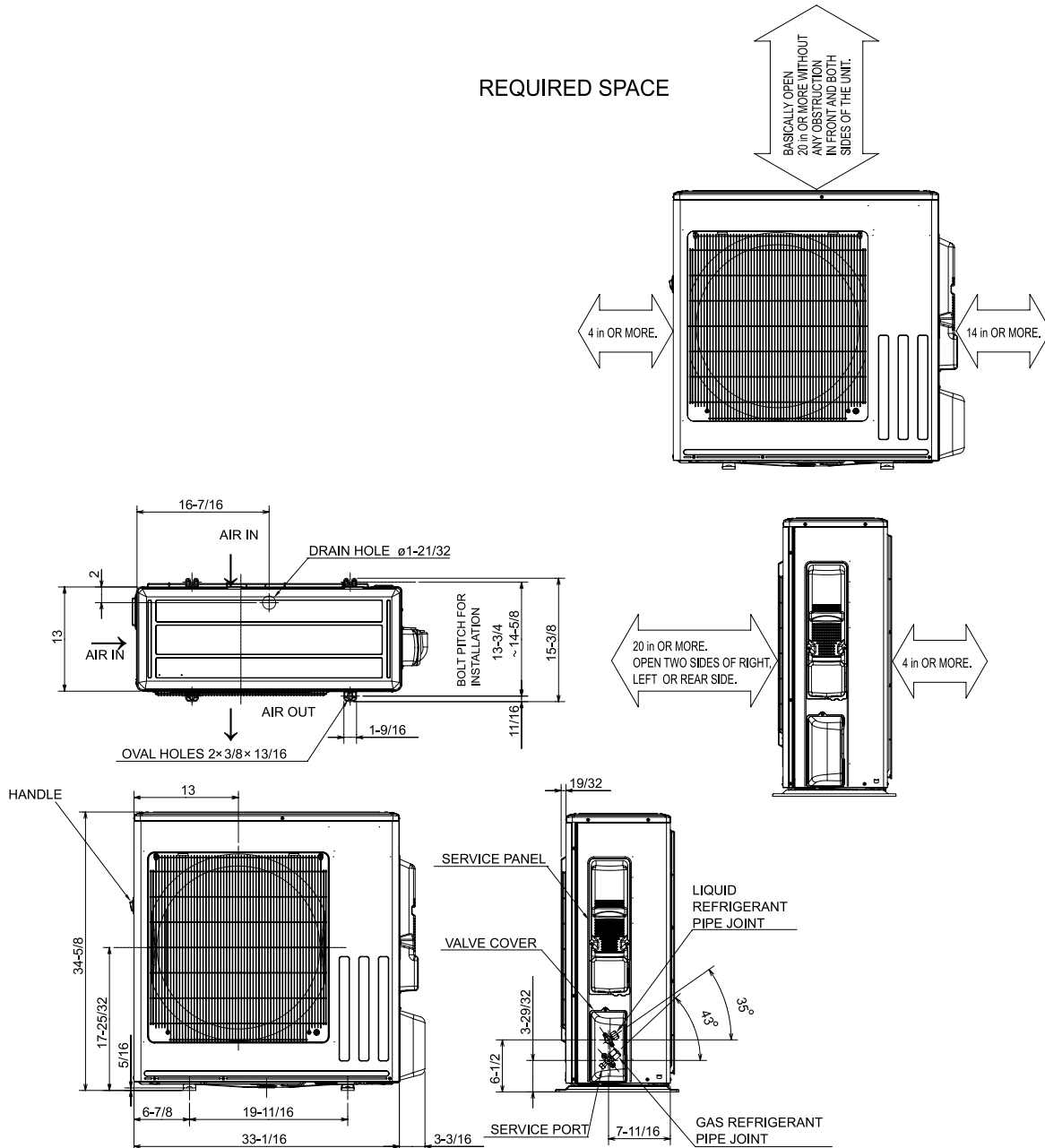
PIPING	INSULATION	ø1-9/16 O.D
	LIQUID LINE	ø1/4 - 19-11/16 (FLARED CONNECTION ø1/4)
	GAS LINE	ø15/32 - 17-3/4 (FLARED CONNECTION ø5/8)
DRAIN HOSE		INSULATION ø1-5/32 CONNECTED PART ø5/8 O.D

*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

REQUIRED SPACE



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