MSZ-FX12NL & MUZ-FX12NLHZ
12,000 BTU/H WALL-MOUNTED INDOOR UNIT
12,000 BTU/H H2I SUMO™ HYPER-HEATING INVERTER OUTDOOR UNIT

Job Name:			
System Reference:		**Date:**	





INDOOR Unit ... MSZ-FX12NL

OUTDOOR Unit ... MUZ-FX12NLHZ

INDOOR UNIT FEATURES

- Smart Dry+ mode (FX only): The Smart Dry+ mode intelligently provides precise humidity control with minimal over-cooling of the space.
- Wi-Fi Built-in: 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): 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-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: 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.
- Hot Start: The system will warm up before blowing air, preventing blasts of cold air at start-up.

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SPECIFICATIONS: MSZ-FX12NL & MUZ-FX12NLHZ

Cooling at 95F[1]	Maximum Capacity	Btu/h	16100
	Rated Capacity	Btu/h	12000
	Minimum Capacity	Btu/h	2500
	Maximum Power Input	W	1660
	Rated Power Input	W	780
	Moisture Removal	Pints/h	1.30
	Sensible Heat Factor		0.88
	Power Factor [208V / 230V]	%	94 / 94
Heating at 47F[2]	Maximum Capacity	Btu/h	23500
	Rated Capacity	Btu/h	13200
	Minimum Capacity	Btu/h	3100
	Maximum Power Input	W	2140
	Rated Power Input	W	920
	Power Factor [208V / 230V]	%	96 / 95
Heating at 17F[3]	Maximum Capacity	Btu/h	18200
	Rated Capacity	Btu/h	9300
	Maximum Power Input	W	2140
	Rated Power Input	W	800
Heating at 5F[5]	Maximum Capacity	Btu/h	16200
	Maximum Power Input	W	2140
Heating at -5F[7]	Maximum Capacity	Btu/h	14500
Heating at -10F[8]	Maximum Capacity	Btu/h	13200
Heating at -22F[10]	Maximum Capacity	Btu/h	8700
Efficiency	SEER2		29.90
	EER2[1]		15.40
	HSPF2 [IV]		12.40
	COP at 47°F[2]		4.20
	COP at 17°F at Maximum Capacity[3]		2.48
	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 , 247 , 311 , 406 , 526
	Airflow Rate at Cooling, Wet	CFM	168 , 210 , 264 , 345 , 447
	Airflow Rate at Heating, Dry	CFM	177 , 247 , 311 , 406 , 477
	Sound Pressure Level [Cooling]	dB (A)	20 , 24 , 29 , 36 , 44
	Sound Pressure Level [Heating]	dB (A)	21 , 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

[1]Cooling at 95°F (Indoor // Outdoor) °F 80 DB, 67 WB // 95 DB, 75 WB
[2]Heating at 47°F (Indoor // Outdoor) °F 70 DB, 60 WB // 47 DB, 43 WB
[3]Heating at 17°F (Indoor // Outdoor) °F 70 DB, 60 WB // 17 DB, 15 WB
[5]Heating at 5°F (Indoor // Outdoor) °F 70 DB, 60 WB // 5 DB, 4 WB
[7]Heating at -5°F (Indoor // Outdoor) °F 70 DB, 60 WB // -5 DB, -6 WB
[8]Heating at -10°F (Indoor // Outdoor) °F 70 DB, 60 WB // -10 DB, -11 WB
[10]Heating at -22°F (Indoor // Outdoor) °F 70 DB, 60 WB // -22 DB, -23 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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SPECIFICATIONS: MSZ-FX12NL & MUZ-FX12NLHZ

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
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)	51
	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]
	Unit Weight	lbs [kg]	89 [40.4]
	Package Weight	lbs [kg]	103.50 [46.90]
ODU Operating Temp. Range	Cooling Intake Air Temp [Maximum / Minimum*]	°FDB	115 / 14
	Cooling Thermal Lock-out / Re-start Temperatures**	°FDB	-4 / 0
	Heating Intake Air Temp [Maximum / Minimum]	°FDB , °FWB / °FDB , °FWB	75 , 65 / -22 , -23.8
	Heating Thermal Lock-out / Re-start Temperatures**	°FDB	-34 / -23
Refrigerant	Type		R454B
	Pre-Charged Refrigerant Amount	lbs , oz	2 , 12
	Maximum Pre-Charged Piping Length	ft [m]	25 [7.50]
	Additional Refrigerant Charge Per Additional Piping Length	oz/ft	0.22
Piping	Liquid Pipe Size O.D. [Flared]	inch [mm]	1/4 [6.35]
	Gas Pipe Size O.D. [Flared]	inch [mm]	3/8 [9.52]
	Maximum Piping Length	ft [m]	65 [20]
	Maximum Height Difference	ft [m]	40 [12]
	Maximum Number of Bends		10

Notes

[1]Cooling at 95°F (Indoor // Outdoor) °F 80 DB, 67 WB // 95 DB, 75 WB
[2]Heating at 47°F (Indoor // Outdoor) °F 70 DB, 60 WB // 47 DB, 43 WB
[3]Heating at 17°F (Indoor // Outdoor) °F 70 DB, 60 WB // 17 DB, 15 WB
[5]Heating at 5°F (Indoor // Outdoor) °F 70 DB, 60 WB // 5 DB, 4 WB
[7]Heating at -5°F (Indoor // Outdoor) °F 70 DB, 60 WB // -5 DB, -6 WB
[8]Heating at -10°F (Indoor // Outdoor) °F 70 DB, 60 WB // -10 DB, -11 WB
[10]Heating at -22°F (Indoor // Outdoor) °F 70 DB, 60 WB // -22 DB, -23 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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INDOOR UNIT ACCESSORIES: MSZ-FX12NL

Condensate	Blue Diamond MaxiBlue Condensate Pump with Reservoir Sensor 115-230V up to 48k BTU/h	X88-721
	Blue Diamond MicroBlue Condensate Pump 115-230V up to 18k BTU/h	X86-003
	Sauermann Condensate Pump 120-230V up to 60k BTU/h	SI30-230
	Blue Diamond MegaBlue Advanced Condensate Pump w Reservoir Sensor	X87-835
	Refco Condensate Pump 100-240V up to 120k BTU/h	COMBI
	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
	Drain Pan Level SensorControl	SS610E
	Refco Condensate Pump 100-240 VAC	GOBI-II
Control Interface	Airzone Wired Blueface Controller White	AZZBSBLUEZEROCB
	Airzone Wired Blueface Controller Black	AZZBSBLUEZEROCN
	M-NET adapter [2]	MAC-334IF-E
	Wireless Interface 2 for Comfrot app	PAC-USWHS002-WF-2
	Airzone Wireless Think Controller Black	AZZBSTHINKRN
	Procon BACnet® and Modbus® Interface	PAC-UKPRC001-CN-1
	Airzone Wireless Think Controller White	AZZBSTHINKRB
	IT Extender	PAC-WHS01IE-E
	Airzone Wireless Lite Controller White	AZZBSLITERB
	Wireless RedLINK™ Remote Controller	MHK2
	kumo station® for Comfort app	PAC-WHS01HC-E
	Airzone Wireless Lite Controller Black	AZZBSLITERN
Disconnect Switch	30A600VUL fits 2 X 4 utility box - White	TAZ-MS303W
	30A600VUL fits 2 X 4 utility box - Black	TAZ-MS303
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
	15 x 1/4 x 15 3/8 Lineset Twin-Tube Insulation	MLS143812T-15
	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
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 Adapter for CN24 or CN152 Connector	CN24RELAY-KIT-CM3
Wired Remote Controller	Touch MA Remote Controller [1]	PAR-CT01MAU-SB
	Simple MA Remote Controller [1]	PAC-YT53CRAU-J
	Simple Direct Wired Remote Controller	PAC-SDW01RC-1
	Deluxe Wired MA Remote Controller [1]	PAR-42MAAUB
Wireless Remote Controller	Lockdown Bracket for Wireless Handheld Remote Controllers	RCMKP1CB

Notes

[1]Requires MAC-334IF-E Interface to connect MA controller
[2]For Ductless M-Series: Allows IDU Connection to MA Controller: *Deluxe MA Remote Controller *Simple MA Controller *Touch MA Controller

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OUTDOOR UNIT ACCESSORIES: MUZ-FX12NLHZ

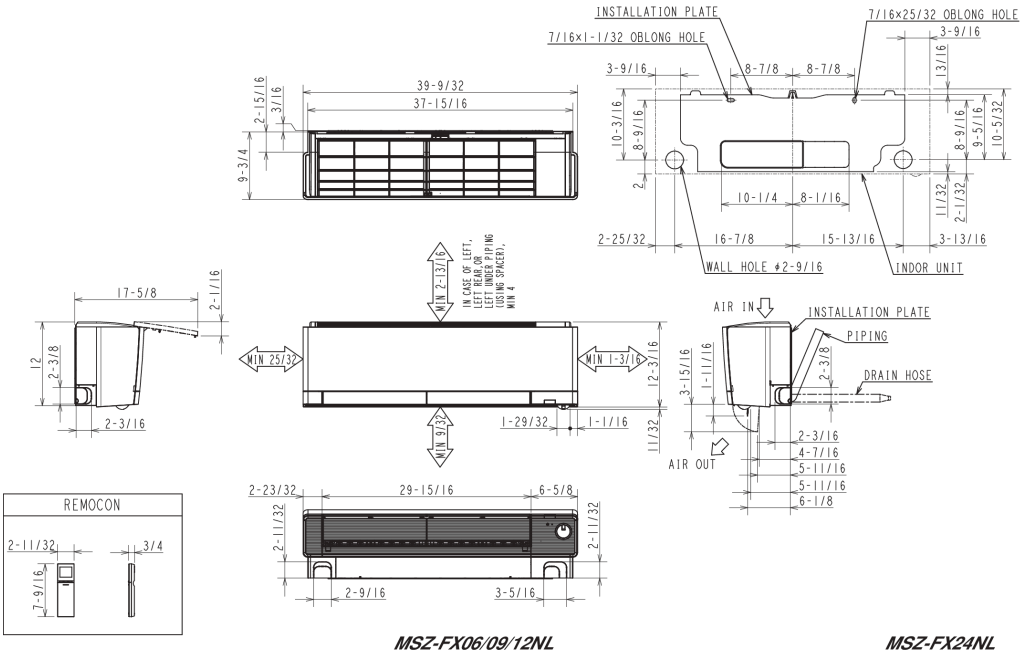
Control/Service Tool	M- & P-Series Maintenance Tool Cable Set	☐ M21EC0397
	Maintenance Tool Interface	☐ PAC-USCMS-MN-1
Mini-Split Wire	14 Gauge 4 wire Armored MiniSplit Cable50 ft roll	☐ SW144-50
	16 Gauge 4 wire Armored MiniSplit Cable250 ft roll	☐ SW164-250
	16 Gauge 4 wire MiniSplit Cable250 ft roll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

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INDOOR UNIT DIMENSIONS: MSZ-FX12NL

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

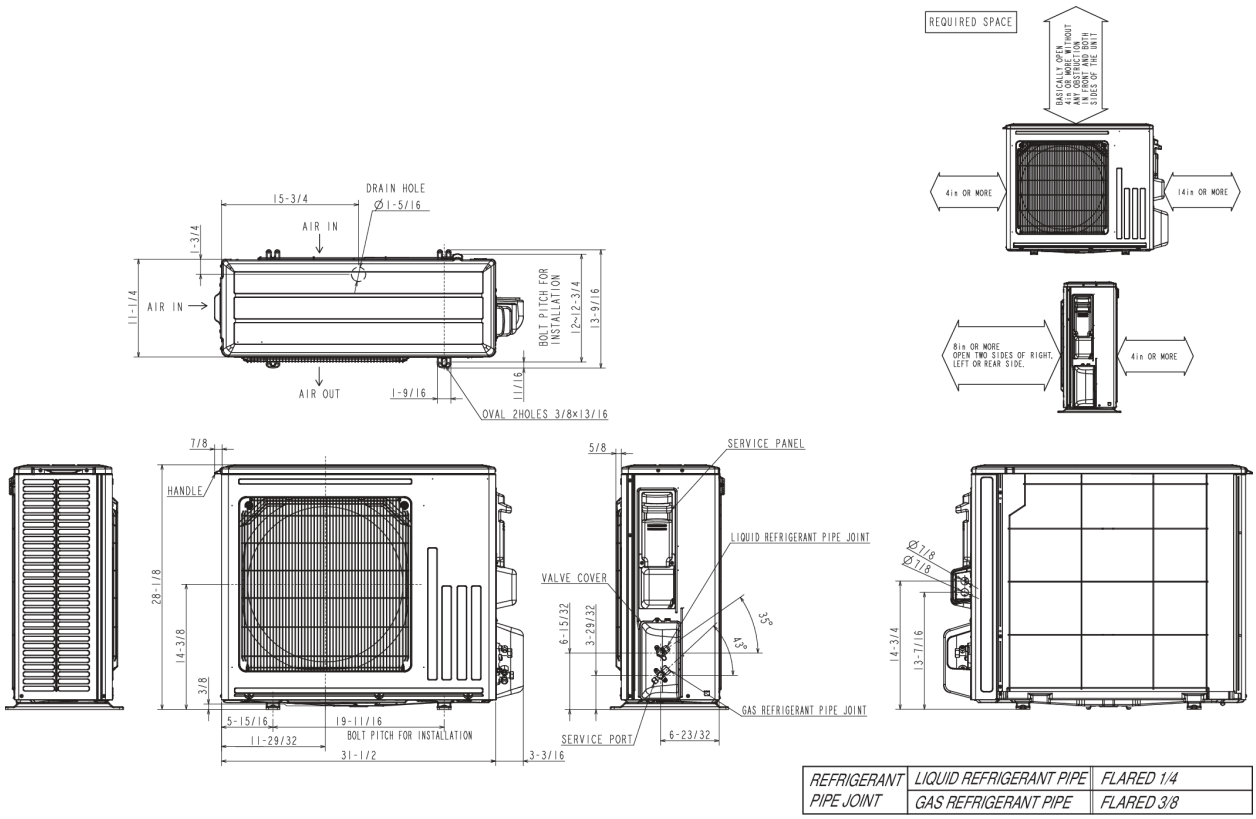
PIPING	*INSULATION*	*ø1-9/16 O.D*
	LIQUID LINE	*ø1/4 - 19-11/16 (FLARED CONNECTION ø1/4)*
	GAS LINE	*ø15/32 - 17-3/4 (FLARED CONNECTION ø5/8)*
DRAIN HOSE		*INSULATION ø1-5/32 CONNECTED PART ø5/8 O.D*

**The diameter of the gas line piping is ø3/8 in one spot.*

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OUTDOOR UNIT DIMENSIONS: MUZ-FX12NLHZ

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



REFRIGERANT PIPE JOINT	*LIQUID REFRIGERANT PIPE*	*FLARED 1/4*
	GAS REFRIGERANT PIPE	*FLARED 3/8*

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