

MSZ-HX12NL & MUZ-HX12NL
12,000 BTU/H WALL-MOUNTED INDOOR UNIT
12,000 BTU/H INVERTER HEAT PUMP OUTDOOR UNIT



Job Name:

System Reference:

Date:



INDOOR Unit ... MSZ-HX12NL

OUTDOOR Unit ... MUZ-HX12NL

INDOOR UNIT FEATURES

- **Swing Mode:** An indoor unit with this capability can move air throughout the room like an oscillating fan.
- **Smart Dry Mode:** Improves humidity control with minimal over-cooling of the space.
- **Smart Set:** Smart Set conveniently adjusts to the preferred preset temperature by pressing a single button on the remote control.
- **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.
- **Horizontal Vane Control:** Horizontal Vane Control allows the indoor unit vanes to be moved left right to provide even temperatures throughout a space.
- **Auto Changeover:** The unit will automatically switch between heating and cooling modes to maintain your desired temperature.

OUTDOOR UNIT FEATURES

- **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.

SPECIFICATIONS: MSZ-HX12NL & MUZ-HX12NL

Cooling at 95F ¹	Maximum Capacity	Btu/h	13400
	Rated Capacity	Btu/h	12000
	Minimum Capacity	Btu/h	3600
	Maximum Power Input	W	1430
	Rated Power Input	W	960
	Moisture Removal	Pints/h	2.60
	Sensible Heat Factor		0.76
	Power Factor [208V / 230V]	%	94 / 94
Heating at 47F ²	Maximum Capacity	Btu/h	15500
	Rated Capacity	Btu/h	12200
	Minimum Capacity	Btu/h	4500
	Maximum Power Input	W	2140
	Rated Power Input	W	990
	Power Factor [208V / 230V]	%	95 / 95
Heating at 17F ³	Maximum Capacity	Btu/h	9000
	Rated Capacity	Btu/h	7800
	Maximum Power Input	W	1670
	Rated Power Input	W	900
Heating at 5F ⁵	Maximum Capacity	Btu/h	8600
	Maximum Power Input	W	1400
Heating at -5F ⁷	Maximum Capacity	Btu/h	8300
Efficiency	SEER2		20
	EER2 ¹		12.50
	HSPF2 [IV]		10
	COP at 47°F ²		3.61
	COP at 17°F at Maximum Capacity ³		1.56
	COP at 5°F at Maximum Capacity ⁵		1.80
	COP at -5°F at Maximum Capacity ⁷		1.82
	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	230 / 208
	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	30
	Fan Motor Type		DC Motor
	Airflow Rate at Cooling, Dry	CFM	168 , 246 , 338 , 475
	Airflow Rate at Cooling, Wet	CFM	151 , 221 , 304 , 428
	Airflow Rate at Heating, Dry	CFM	172 , 241 , 348 , 401
	Sound Pressure Level [Cooling]	dB (A)	22 , 30 , 38 , 47
	Sound Pressure Level [Heating]	dB (A)	23 , 30 , 38 , 43
	Drain Pipe Size O.D.	inch [mm]	5/8 [15.88]
	Dual Barrier Coating on Heat Exchanger		No
	Dual Barrier Coating on Fan		Yes
	External Finish Color		Munsell 0.7PB 9.2/0.4
	Unit Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	33 x 9-1/4 x 11-1/32 [838 x 235 x 280]
	Package Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	36 x 13-1/4 x 11-1/2 [920 x 340 x 300]
	Unit Weight	lbs [kg]	20 [9]
	Package Weight	lbs [kg]	24 [10.50]
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	16

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

¹Indoor/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.

³Nominal capacity only. Actual capacity output varies based on the system specific configuration

SPECIFICATIONS: MSZ-HX12NL & MUZ-HX12NL

Outdoor Unit	MOCP	A	20
	Fan Motor Full Load Amperage	A	0.71
	Fan Motor Output	W	55
	Airflow Rate Cooling	CFM	1166
	Airflow Rate Heating	CFM	1152
	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		SRB140FQHMC
	Compressor Oil [Type // Charge]	// oz	RM68EH // 11.83
	External Finish Color		Munsell 3Y 7.8/1.1
	Base Pan Heater		Optional
	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 21/5/8 [800 x 285 x 550]
ODU Operating Temp. Range	Package Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	37-1/16 x 14-31/32 x 24-13/16 [940 x 380 x 630]
	Unit Weight	lbs [kg]	81 [36.7]
	Package Weight	lbs [kg]	88 [39.9]
	Cooling Intake Air Temp [Maximum / Minimum*]	F	115 / 14
Refrigerant	Cooling Thermal Lock-out / Re-start Temperatures**	F	-1 / 3
	Heating Intake Air Temp [Maximum / Minimum]	F , F / F , F	75 , 65 / -5 , -6
	Heating Thermal Lock-out / Re-start Temperatures**	F	-14 / -4
	Type		R454B
Piping	Pre-Charged Refrigerant Amount	lbs , oz	2 , 2
	Maximum Pre-Charged Piping Length	ft [m]	25 [7.50]
	Additional Refrigerant Charge Per Additional Piping Length	oz/ft	0.22
	Gas Pipe Size O.D. [Flared]	inch [mm]	3/8 [9.52]
Piping	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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- 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
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- ³Nominal capacity only. Actual capacity output varies based on the system specific configuration

INDOOR UNIT ACCESSORIES: MSZ-HX12NL

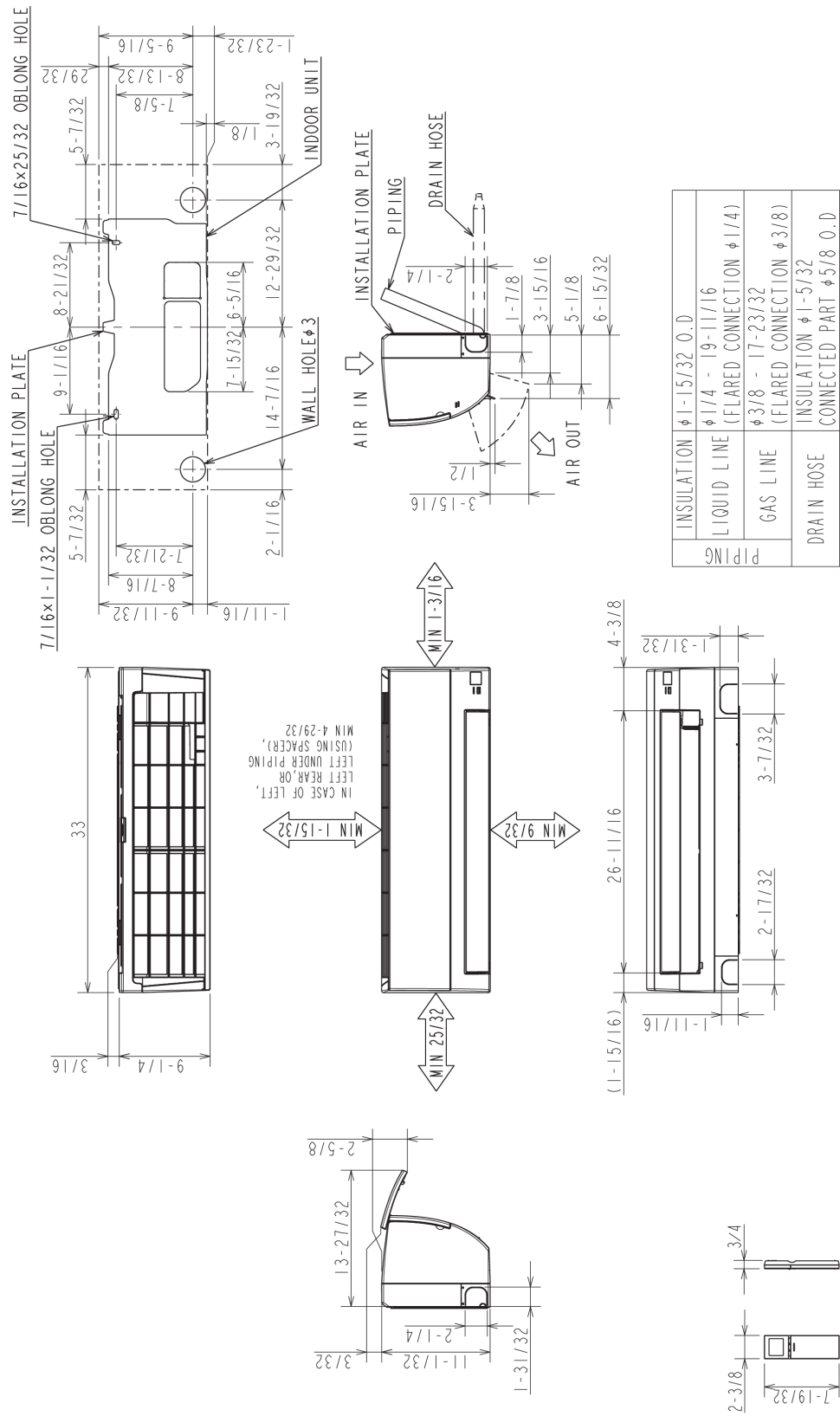
Condensate	Blue Diamond MegaBlue Condensate Pump with Reservoir Sensor 115-230V up to 170k BTU/h	☐ X87-835
	Blue Diamond MicroBlue Condensate Pump with Fascia Kit 115-230V up to 18k BTU/h	☐ X86-011
	Fascia Kit for MicroBlue Pump mounts the MicroBlue and sensor directly beneath indoor unit	☐ T18-016
	Refco Condensate Pump 100-240V up to 120k BTU/h	☐ COMBI
	Refco Condensate Removal Pump with Wall Mount Enclosure 120-240V up to 120k BTU/h	☐ GOBI-II
	Blue Diamond MicroBlue Condensate Pump 115-230V up to 18k BTU/h	☐ X86-003
	Blue Diamond MaxiBlue Condensate Pump with Reservoir Sensor 115-230V up to 48k BTU/h	☐ X88-721
	Sauermann Condensate Pump 120-230V up to 60k BTU/h	☐ SI30-230
	Blue Diamond MultiTank collection tank for use with MegaBlue	☐ C21-014
	Blue Diamond Sensor Extension Cable 15 Ft	☐ C13-103
	Blue Diamond (MaxiBlue Advanced) Mini Condensate Pump w/ Reservoir & Sensor (110V) up to 48,000 BTU/H [recommended]	☐ X87-711
	Blue Diamond Alarm Extension Cable—6.5 Ft.	☐ C13-192
	Drain Pan Level Sensor/Control	☐ SS610E
Control Interface	Airzone Wired Blueface Controller Black	☐ AZZBSBLUEZEROCN
	kumo station® for Comfort app	☐ PAC-WHS01HC-E
	Airzone Wireless Think Controller Black	☐ AZZBSTHINKRN
	Thermostat Interface for 3rd Party Thermostats	☐ PAC-US445CN-1
	IT Extender	☐ PAC-WHS01IE-E
	Airzone Wired Blueface Controller White	☐ AZZBSBLUEZEROCB
	Airzone Wireless Lite Controller White	☐ AZZBSLITERB
	Airzone Wireless Think Controller White	☐ AZZBSTHINKRB
	Wireless Interface 2 for Comfrot app	☐ PAC-USWHS002-WF-2
	Airzone Wireless Lite Controller Black	☐ AZZBSLITERN
	Procon BACnet® and Modbus® Interface	☐ PAC-UKPRC001-CN-1
	M-Net I/O Control Interface for M-Series ²	☐ MAC-334IF-E
Disconnect Switch	(30A/600V/UL) [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	Electro Static Anti-allergy Enzyme Filter	☐ MAC-2320FT-E
	Microparticle Filter	☐ MAC-EMF515FT-E
Lineset	30 x 1/4 x 30 3/8 Lineset Twin-Tube Insulation	☐ MLS143812T-30
	65 x 1/4 x 65 3/8 Lineset Twin-Tube Insulation	☐ MLS143812T-65
	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
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 Direct Wired Remote Controller	☐ PAC-SDW01RC-1
	Simple MA Remote Controller ¹	☐ PAC-YT53CRAU-J
	Touch MA Remote Controller ¹	☐ PAR-CT01MAU-SB
	Deluxe MA Wired Remote Controller ¹	☐ PAR-42MAAUB
Wireless Remote Controller	Lockdown Bracket for Wireless Handheld Remote Controllers	☐ RCMKP1CB
	Wireless RedLINK™ Remote Controller	☐ MHK2
Notes		

OUTDOOR UNIT ACCESSORIES: MUZ-HX12NL

Air Outlet Guide	Air Outlet Guide	☐	MAC-881SG-E
Control/Service Tool	M- & P-Series Maintenance Tool Cable Set	☐	M21EC0397
	Maintenance Tool Interface	☐	PAC-USCMS-MN-1
Drain Socket	Drain Socket	☐	MAC-871DS
Hail Guards	Hail Guard	☐	HG-B4
Mini-Split Wire	14 Gauge 4 wire MiniSplit Cable250 ft roll	☐	S144-250
	14 Gauge 4 wire Armored MiniSplit Cable50 ft roll	☐	SW144-50
	14 Gauge 4 wire MiniSplit Cable50 ft roll	☐	S144-50
	14 Gauge 4 wire Armored MiniSplit Cable250 ft roll	☐	SW144-250
Mounting Pad	Condensing Unit Mounting Pad 16 x 36 x 3	☐	ULTRILITE1
Optional Defrost Heater	Base Heater	☐	MAC-650BH-U
Snow/Rain Diverter	SnowRain Diverter	☐	SRD-1
Stand	Condenser Wall Bracket	☐	QSWB2000M-1
	24 Single Fan Stand	☐	QSMS2401M
	Outdoor Unit Stand 12 High	☐	QSMS1201M
	Outdoor Unit 3-14 inch Mounting Base Pair - Plastic	☐	DSD-400P
	18 Single Fan Stand	☐	QSMS1801M
	Condenser Wall Bracket - Stainless Steel Finish	☐	QSWBSS
Notes			

INDOOR UNIT DIMENSIONS: MSZ-HX12NL

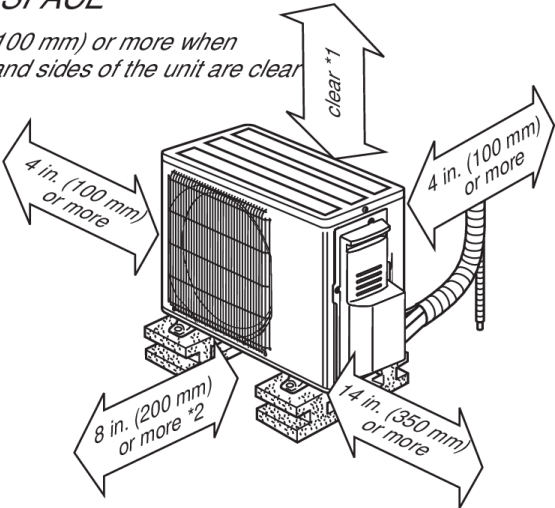
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MSZ-HX12NL-U1



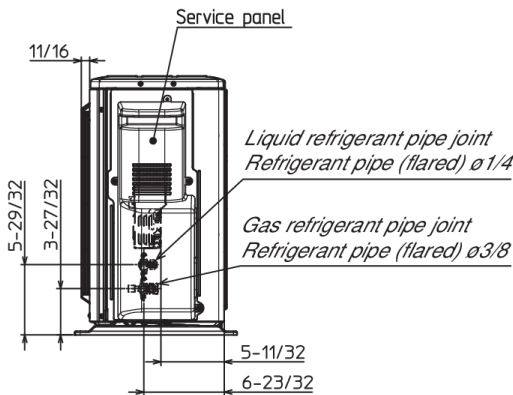
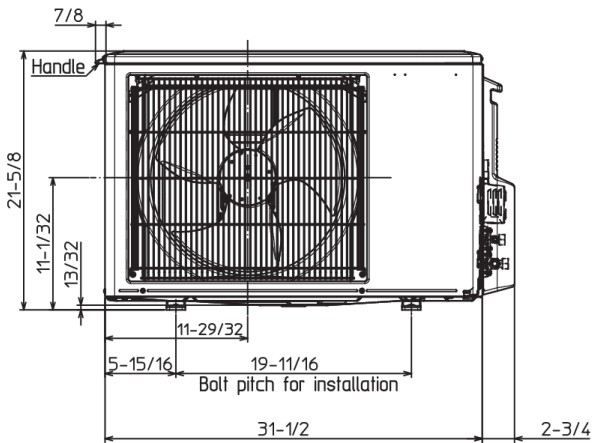
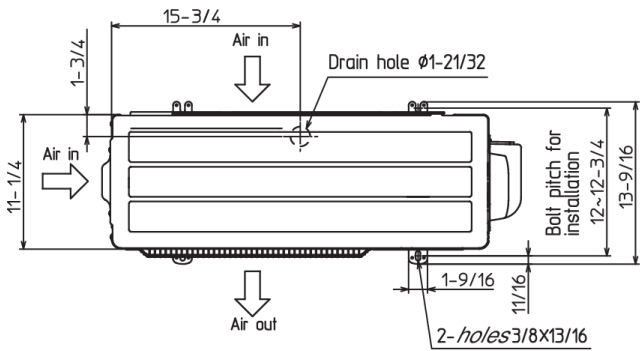
MUZ-HX09NL-U1
MUZ-HX12NL-U1

REQUIRED SPACE

*1 4 in. (100 mm) or more when front and sides of the unit are clear



*2 When any 2 sides of left, right and rear of the unit are clear



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