

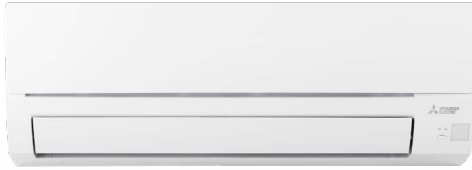
MSZ-WX12NL & MUZ-WX12NL
12,000 BTU/H WALL-MOUNTED INDOOR UNIT
12,000 BTU/H INVERTER HEAT PUMP OUTDOOR UNIT



Job Name:

System Reference:

Date:



Indoor Unit.....MSZ-WX12NL

Outdoor Unit.....MUZ-WX12NL



INDOOR UNIT FEATURES

- 12-hour timer
- Auto restart
- 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.
- Electrostatic Enzyme Filter: Charged with static electricity, the Electrostatic filter is designed to attract and filter charged particles which can include airborne non-living particulates.
- Four fan speed options: Low, Medium, high, Super-high
- 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
- Nano Platinum Filter: This filter has a large capture area and incorporates nanometer-sized platinum-ceramic particles and is designed to reduce the presence of certain nonliving particles, while deodorizing the circulating air.
- Smart Dry Mode: Improves humidity control with minimal over-cooling of the space

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.
- INVERTER-driven compressor: An inverter-driven compressor generates the precise capacity needed to maintain a temperature set point.
- Powered by Outdoor Unit: The outdoor unit powers the indoor unit, and should a power outage occur, the system is automatically restarted when power returns

SPECIFICATIONS: MSZ-WX12NL & MUZ-WX12NL

Cooling at 95F ¹	Maximum Capacity	Btu/h	12,200
	Rated Capacity	Btu/h	12,000
	Minimum Capacity	Btu/h	3,800
	Maximum Power Input	W	1,400
	Rated Power Input	W	1,330
	Moisture Removal	Pints/h	3.1
	Sensible Heat Factor	-	0.71
Heating at 47F ²	Power Factor [208V / 230V]	%	96 / 96
	Maximum Capacity	Btu/h	14,500
	Rated Capacity	Btu/h	12,200
	Minimum Capacity	Btu/h	4,500
	Maximum Power Input	W	1,340
	Rated Power Input	W	1,090
	Power Factor [208V / 230V]	%	94 / 94
Heating at 17F ³	Maximum Capacity	Btu/h	9,000
	Rated Capacity	Btu/h	7,500
	Maximum Power Input	W	1,280
	Rated Power Input	W	940
Efficiency	SEER2		18
	EER2 ¹		9
	HSPF2 [I/V]		8.5
	COP at 47°F ²		3.28
	COP at 17°F at Maximum Capacity ³		2.06
Electrical	ENERGY STAR® Certified		No
	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
	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	30
	Airflow Rate at Cooling, Dry	CFM	147, 210, 301, 381
	Airflow Rate at Cooling, Wet	CFM	132, 189, 271, 343
	Airflow Rate at Heating, Dry	CFM	147, 224, 321, 391
	Sound Pressure Level [Cooling]	dB (A)	22, 30, 37, 45
	Sound Pressure Level [Heating]	dB (A)	22, 30, 37, 43
	Drain Pipe Size O.D.	inch [mm]	5/8 [15.88]
	Dual Barrier Coating on Heat Exchanger		No
	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 x 11-1/16 [838 x 228 x 280]
	Package Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	35-1/2 x 13-1/4 x 11-1/4 [900 x 340 x 290]
	Unit Weight	lbs [kg]	20 [9]
	Package Weight	lbs [kg]	23 [10.40]
IDU Operating Temp. Range	Fan Motor Type		DC Motor
	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)

^{*} 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-WX12NL & MUZ-WX12NL

Outdoor Unit	MCA	A	10
	MOCP	A	17
	Fan Motor Full Load Amperage	A	0.71
	Fan Motor Output	W	55
	Airflow Rate Cooling	CFM	1,141
	Airflow Rate Heating	CFM	1,141
	Defrost Method		Reverse Cycle
	Coating on Heat Exchanger (Bluefin, Sea Coast)		Yes, Yes
	Sound Pressure Level, Cooling ¹	dB (A)	51
	Sound Pressure Level, Heating ²	dB (A)	51
	Compressor Type		Single Rotary
	Compressor Model		KRB073FATMC
	Compressor Oil [Type // Charge]	Type // oz	RM68EH // 9.13
	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]
	Package Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	35-1/2 x 13-1/4 x 11-1/4 [900 x 340 x 290]
ODU Operating Temp. Range	Unit Weight	lbs [kg]	20 [9]
	Package Weight	lbs [kg]	23 [10.40]
	Cooling Intake Air Temp [Maximum / Minimum*]	°FDB	115 / 32
	Cooling Thermal Lock-out / Re-start Temperatures**	°FDB	-1 / 3
	Heating Intake Air Temp [Maximum / Minimum]	°FDB, °FWB / °FDB, °FWB	75, 65 / 5, 4
	Heating Thermal Lock-out / Re-start Temperatures**	°FDB	-14 / -4
Refrigerant	Type		R454B
	Pre-Charged Refrigerant Amount	lbs, oz	1, 6
	Maximum Pre-Charged Piping Length	ft [m]	25 [7.50]
	Additional Refrigerant Charge Per Additional Piping Length	oz/ft	0.22
Piping	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 ¹ Cooling at 95°F (Indoor: 80°F DB, 67°F WB // Outdoor: 95°F DB, 75°F WB) ² Heating at 47°F (Indoor: 70°F DB, 60°F WB // Outdoor: 47°F DB, 43°F WB) ³ Heating at 17°F (Indoor: 70°F DB, 60°F WB // Outdoor: 17°F DB, 15°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.			

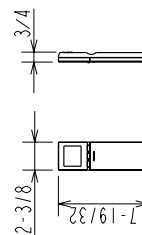
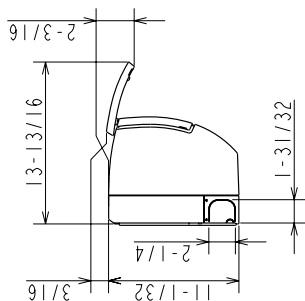
INDOOR UNIT ACCESSORIES: MSZ-WX12NL

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
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
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
Condensate	Blue Diamond Advanced Mini Condensate Pump w Reservoir Sensor 208230V recommended	X87-721
	Blue Diamond Alarm Extension Cable 65 Ft	C13-192
	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 MicroBlue Mini Condensate Pump 110208230V up to 18000 BTUH	X86-003
	Blue Diamond MultiTank collection tank for use with multiple pumps	C21-014
	Blue Diamond Sensor Extension Cable 15 Ft	C13-103
	Drain Pan Level SensorControl	SS610E
	Fascia Kit for MicroBlue Pump mounts the MicroBlue and sensor directly beneath indoor unit	T18-016
	Refco Condensate Pump 100-240 VAC up to 120000 BTUH	COMBI
	Refco Condensate Pump 100-240 VAC	GOBI-II
	REFCO PUMP 100-240 VAC 5060 HZ	X86-011
Lineset	Sauermann Condensate Pump	SI30-230
	15 x 1/4 x 15 3/8 Lineset Twin-Tube Insulation	MLS143812T-15
	30 x 1/4 x 30 3/8 Lineset Twin-Tube Insulation	MLS143812T-30
	50 x 1/4 x 50 3/8 Lineset Twin-Tube Insulation	MLS143812T-50
Power Supplies and Auxiliary Components	65 x 1/4 x 65 3/8 Lineset Twin-Tube Insulation	MLS143812T-65
	Backup Heat Relay Kit Adapter for CN24 or CN152 Connector	CN24RELAY-KIT-CM3
Drain Hose	Flexible Mini-Split Drain Hose	DRX-16
Disconnect Switch	30A600VUL fits 2 X 4 utility box - Black	TAZ-MS303
	30A600VUL fits 2 X 4 utility box - White	TAZ-MS303W
Wireless Remote Controller	Lockdown Bracket for Wireless Handheld Remote Controllers	RCMKP1CB
	RedLINK Wireless Remote Controller	MHK2
Filter	Electro Static Anti-allergy Enzyme Filter	MAC-2320FT-E
	Microparticle Filter	MAC-EMF515FT-E
NOTES		
² Allows IDU Connection to MA Controller: Deluxe MA Remote Controller Simple MA Controller Touch MA Controller ¹ Requires MAC-334IF-E Interface to connect MA controller ¹ Requires MAC-334IF-E Interface to connect MA controller ¹ Requires MAC-334IF-E Interface to connect MA controller		

OUTDOOR UNIT ACCESSORIES: MUZ-WX12NL

Hail Guards	Hail Guard	HG-B4
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 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
Snow/Rain Diverter	SnowRain Diverter	SRD-1
Stand	18 Single Fan Stand	QSMS1801M
	24 Single Fan Stand	QSMS2401M
	Condenser Wall Bracket - Stainless Steel Finish	QSWBSS
	Condenser Wall Bracket	QSWB2000M-1
	Outdoor Unit 3-14 inch Mounting Base Pair - Plastic	DSD-400P
	Outdoor Unit Stand 12 High	QSMS1201M
Mounting Pad	Condensing Unit Mounting Pad 16 x 36 x 3	ULTRILITE1
Air Outlet Guide	Air Outlet Guide	MAC-881SG-E
Drain Socket	Drain Socket	MAC-871DS
NOTES		

MSZ-WX09NL- U1
MSZ-WX12NL- U1
MSZ-WX18NL- U1



INSULATION	φ1-15/32 O.D.
LIQUID LINE	φ1/4 - 19-11/16 (FLARED CONNECTION φ1/4)
GAS LINE	φ3/8 - 17-23/32 (FLARED CONNECTION φ3/8)
DRAIN HOSE	INSULATION φ1-5/32 CONNECTED PART φ5/8 O.D.

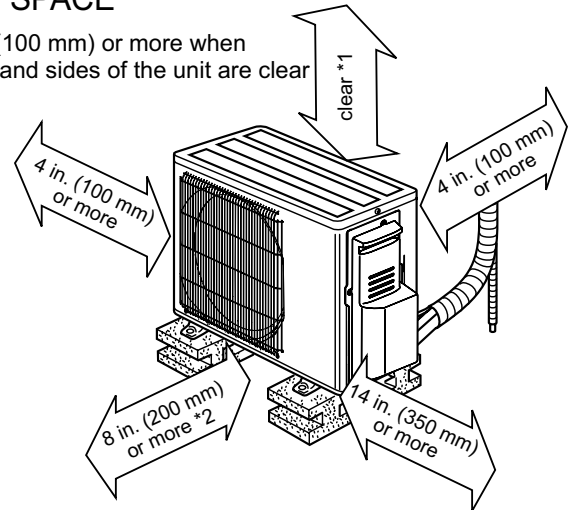
P-LINE	INSULATION	φ 1-15/32 O.D
	LIQUID LINE	φ 1/4 - 19-11/16 (FLARED CONNECTION φ 1/4)
	GAS LINE	φ 3/8 - 17-23/32 (FLARED CONNECTION φ 1/2)
DRAIN HOSE		INSULATION φ 1-5/32 CONNECTED PART φ 5/8 O.D

OUTDOOR UNIT DIMENSIONS: MUZ-WX12NL

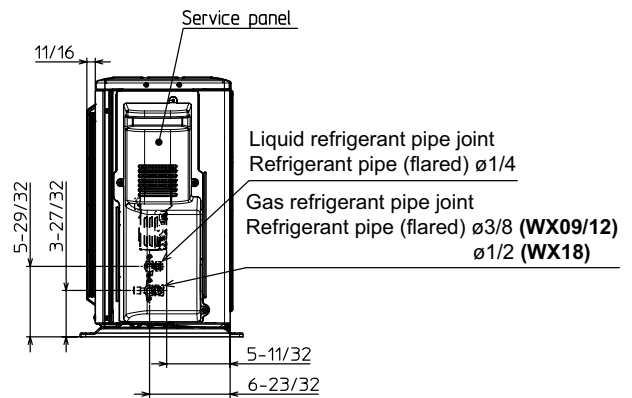
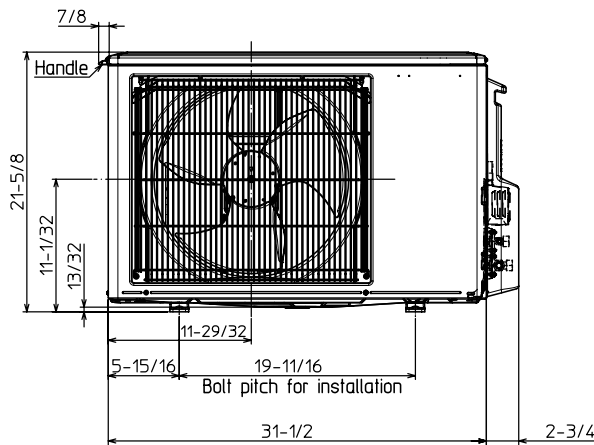
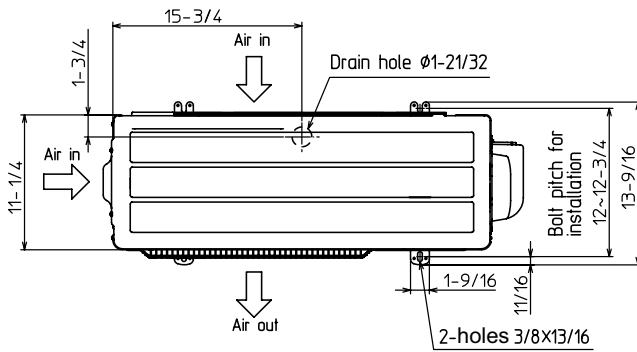
MUZ-WX09NL-U1
MUZ-WX12NL-U1
MUZ-WX18NL-U1

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



MUZ-WX09/12NL

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

MUZ-WX18NL

REFRIGERANT	LIQUID REFRIGERANT PIPE	FLARED 1/4"
PIPE JOINT	GAS REFRIGERANT PIPE	FLARED 1/2"