

# M-SERIES




## SUBMITTAL DATA: MSZ-WR18NA & MUZ-WR18NA 18,000 BTU/H WALL-MOUNTED HEAT PUMP SYSTEM



Job Name:

System Reference:

Date:

Indoor Unit: MSZ-WR18NA	Outdoor Unit: <input type="checkbox"/> MUZ-WR18NA-U1 <input type="checkbox"/> MUZ-WR18NA-U2	Wireless Remote Controller
		

### GENERAL FEATURES

- Single-zone heat pump systems
- Blue Fin anti-corrosion treatment applied to the outdoor unit heat exchanger for increased coil protection and longer life
- Four fan speeds: Low, Medium, High, Super-high
- Anti-mold filter
- INVERTER-driven heat pump
- Cooling operation range: 32° F to 115° F
- Heating operation range: 5° F to 75° F
- Multiple control options available:
  - Hand-held Remote Controller (provided with unit)
  - kumo cloud® smart device app for remote access
  - Third-party interface options
  - Wired or wireless controllers
- 12-hour timer
- ECONO COOL mode
- AUTO restart
- The outdoor unit powers the indoor unit and should a power outage occur, the system is automatically restarted when the power returns.

# SPECIFICATIONS: MSZ-WR18NA & MUZ-WR18NA

Cooling at 95°F <sup>1</sup>	Maximum Capacity	BTU/H	18,000
	Rated Capacity	BTU/H	17,200
	Minimum Capacity	BTU/H	5,800
	Maximum Power Input	W	2,170
	Rated Power Input	W	1,720
	Moisture Removal	Pints/h	2.1
	Sensible Heat Factor		0.86
	Power Factor (208/230V)	%	98/98
Cooling at 82°F	Maximum Capacity	BTU/H	19,872
	Rated Capacity	BTU/H	18,700
	Minimum Capacity	BTU/H	6,404
	Maximum Power Input	W	1,956
	Rated Power Input	W	1,548
Heating at 47°F <sup>2</sup>	Maximum Capacity	BTU/H	20,900
	Rated Capacity	BTU/H	18,000
	Minimum Capacity	BTU/H	5,400
	Maximum Power Input	W	2,360
	Rated Power Input	W	1,670
	Power Factor	%	97/97
Heating at 17°F <sup>3</sup>	Maximum Capacity	BTU/H	15,000
	Rated Capacity	BTU/H	11,500
	Maximum Power Input	W	2,040
	Rated Power Input	W	1,360
Heating at 5°F <sup>4</sup>	Maximum Capacity	BTU/H	12,780
	Maximum Power Input	W	1,770
Efficiency	SEER		16.0
	EER <sup>1</sup>		10.0
	HSPF (IV)		8.5
	COP at 47°F <sup>2</sup>		3.16
	COP at 17°F in Maximum Capacity <sup>3</sup>		2.16
	COP at 5°F in Maximum Capacity <sup>4</sup>		2.12
Electrical	Voltage, Phase, Frequency		208/230V, 1 phase, 60Hz
	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
	Blower Motor Full Load Amperage	A	0.67
	Blower Motor Output	W	30

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	Airflow Rate at Cooling, Dry		CFM	625-530-431-328
	Airflow Rate at Cooling, Wet		CFM	562-477-388-295
	Airflow Rate at Heating, Dry		CFM	625-530-431-307
	Sound Pressure Level (Cooling)		dB(A)	47-42-37-30
	Sound Pressure Level (Heating)		dB(A)	47-42-37-30
	Drain Pipe Size		In. (mm)	5/8 (15.88)
	Heat Exchanger Type			Plate fin coil
	External Finish Color			Munsell 1.0Y 9.2/0.2
	Unit Dimensions	W: In. (mm)	36-5/16 (923)	
		D: In. (mm)	9-13/16 (250)	
		H: In. (mm)	12 (305)	
	Package Dimensions	W: In. (mm)	39 (990)	
		D: In. (mm)	13 (330)	
		H: In. (mm)	15 (380)	
Indoor Unit Operating Temperature Range	Cooling Intake Air Temp (Maximum / Minimum)*		°F	90F D.B / 73F W.B // 67F D.B / 57F W.B
	Heating Intake Air Temp (Maximum / Minimum)		°F	80F D.B // 70F D.B
Outdoor Unit	MCA		A	10
	MOCP		A	15
	Fan Motor Full Load Amperage		A	0.5
	Fan Motor Output		W	55
	Airflow Rate		CFM	1,243 / 1,229
	Refrigerant Control			LEV
	Defrost Method			Reverse cycle
	Heat Exchanger Type			Plate fin coil
	Blue Fin Coating on Heat Exchanger			Yes
	Sound Pressure Level, Cooling <sup>1</sup>	dB(A)	53	
	Sound Pressure Level, Heating <sup>2</sup>	dB(A)	51	
	Compressor Type			DC INVERTER-driven Twin Rotary
	Compressor Model			SNB130FQBMT
	Compressor Rated Load Amps	A	7.4	
	Compressor Locked Rotor Amps	A	9.3	
	Compressor Oil Type // Charge	oz.	FV50S // 11.8	
	External Finish Color			Ivory Munsell 3Y 7.8/1.1
	Base Pan Heater			Optional
	Unit Dimensions	W: In. (mm)	31-1/2 (800)	
		D: In. (mm)	11-1/4 (285)	
		H: In. (mm)	21-5/8 (550)	
	Package Dimensions	W: In. (mm)	38-9/16 (980)	
		D: In. (mm)	16-9/16 (420)	

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		H: In. (mm)	39 (990)
	Unit Weight	Lbs. (kg)	81 (37)
	Package Weight	Lbs. (kg)	88 (40)
Outdoor Unit Operating Temperature Range	Cooling Air Temp (Maximum / Minimum)*	°F	115 / 32
	Cooling Thermal Lock-out / Re-start Temperatures**	°F	-1 / 3
	Heating Air Temp (Maximum / Minimum)	°F	75 / 5
	Heating Thermal Lock-out / Re-start Temperatures**	°F	-9 / -4
Refrigerant	Type		R410A
	Charge	Lbs, oz	2, 10
Piping	Gas Pipe Size O.D. (Flared)	In.(mm)	1/2 (12.7)
	Liquid Pipe Size O.D. (Flared)	In.(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

AHRI Rated Conditions (Rated data is determined at a fixed compressor speed)	<sup>1</sup> Cooling (Indoor // Outdoor)	°F	80 DB, 67 WB // 95 DB, 75 WB
	<sup>2</sup> Heating at 47°F (Indoor // Outdoor)	°F	70 DB, 60 WB // 47 DB, 43 WB
	<sup>3</sup> Heating at 17°F (Indoor // Outdoor)	°F	70 DB, 60 WB // 17 DB, 15 WB
Conditions	<sup>4</sup> Heating at 5°F (Indoor // Outdoor)	°F	70 DB, 60 WB // 5 DB, 4 WB

\*Applications should be restricted to comfort cooling only; equipment cooling applications are not recommended for low ambient temperature conditions.

\*\*System cuts out in heating mode to avoid thermistor error and automatically restarts at these temperatures.

## ACCESSORIES: MSZ-WR18NA

Anti-allergy Enzyme Filter	□ MAC-408FT-E
Remote Controller Holder	□ U01A01083
kumo touch™ RedLINK™ Wireless Controller	□ MHK2
Deluxe MA Remote Controller <sup>1</sup>	□ PAR-40MAAU
Simple MA Controller <sup>1</sup>	□ PAC-YT53CRAU-J
Touch MA Controller <sup>1</sup>	□ PAR-CT01MAU-SB
Wired Remote Sensor	□ M21EAA307
Wireless Temperature and Humidity Sensor	□ PAC-USWHS003-TH-1
System Control Interface <sup>2</sup>	□ MAC-334IF-E
Wireless Interface 2	□ PAC-USWHS002-WF-2
Thermostat Interface	□ PAC-US444CN-1
kumo station®	□ PAC-WHS01HC-E
USNAP Interface	□ PAC-WHS01UP-E
IT Extender	□ PAC-WHS01IE-E
BACnet® and MODBUS® Interface	□ PAC-UKPRC001-CN-1
Lockdown Bracket for Hand-held Remote Controllers	□ RCMKP1CB
Blue Diamond Sensor Extension Cable — 15 Ft.	□ C13-103
Blue Diamond Alarm Extension Cable — 6.5 Ft.	□ C13-192
Blue Diamond MultiTank — collection tank for use with multiple pumps	□ C21-014
Blue Diamond Rubber Foot Pads	□ F10-010
Mini Condensate Pump — 230 volt application	□ SI30-230
MegaBlue Advanced Blue Diamond Condensate Pump w/ Reservoir & Sensor	□ X87-835 - 110 to 250V
MaxiBlue Advanced Blue Diamond Mini Condensate Pump w/ Reservoir & Sensor (110V) up to 48,000 BTU/H[recommended]	□ X87-711 - 110V
Advanced Blue Diamond Mini Condensate Pump w/ Reservoir & Sensor (208/230V) [recommended]	□ X87-721 - 208/230V
MicroBlue Blue Diamond Mini Condensate Pump (110/208/230V) up to 18,000 BTU/H	□ X85-003
Fascia Kit for MicroBlue Pump – mounts the MicroBlue and sensor directly beneath the indoor unit	□ T18-016
Drain Pan Level Sensor	□ SS610E
(30A/600V/UL) [fits 2" X 4" utility box] - Black	□ TAZ-MS303
(30A/600V/UL) [fits 2" X 4" utility box] - White	□ TAZ-MS303W

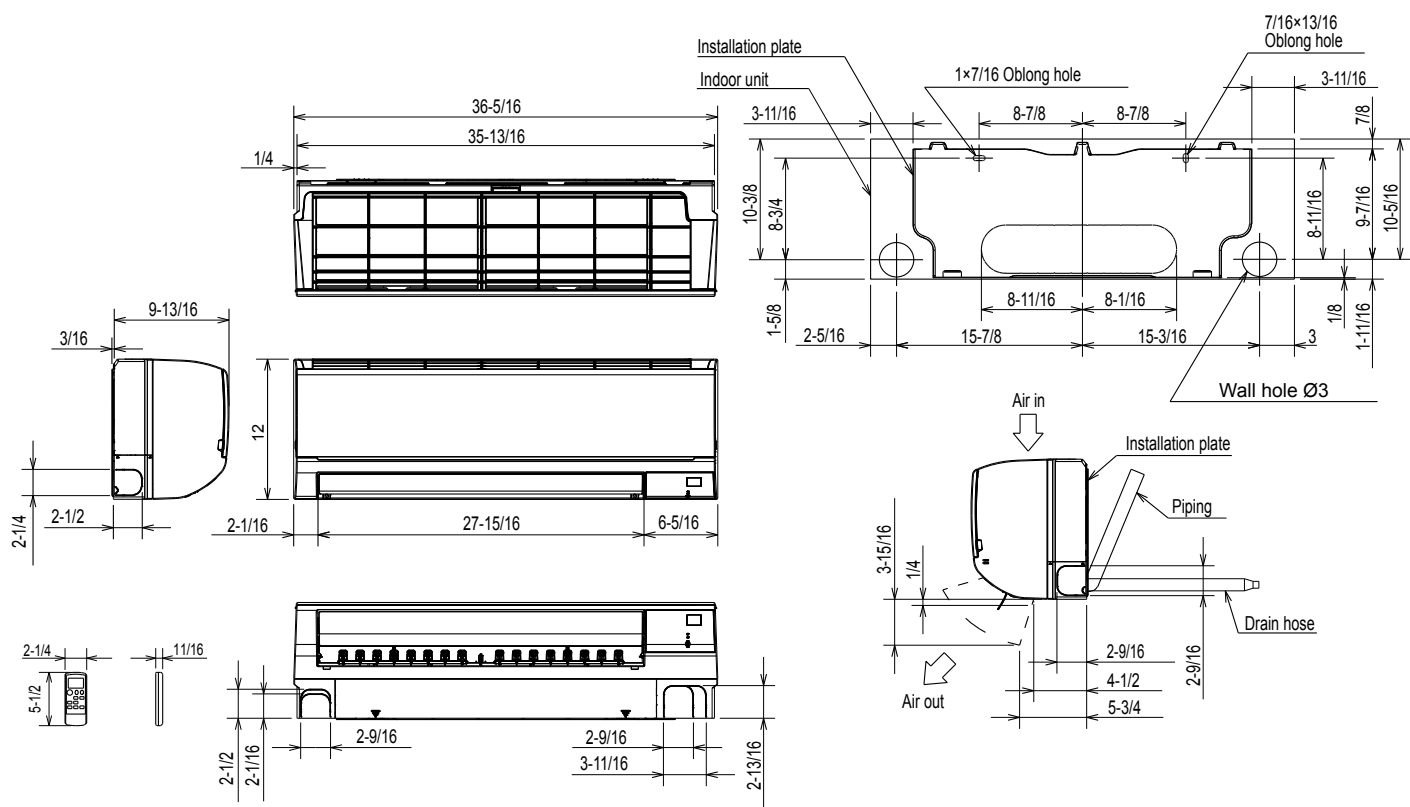
<sup>1</sup> Requires MAC-334IF-E

<sup>2</sup> Allows indoor units to connect to an MA Controller

## ACCESSORIES: MUZ-WR18NA

Air Outlet Guide	□ MAC-881SG
Drain Socket	□ MAC-860DS
Optional Defrost Heater	□ MAC-640BH-U
Hail Guard	□ HG-B4
Outdoor Unit 3-1/4 inch Mounting Base (Pair) - Plastic	□ DSD-400P
Condensing Unit Mounting Pad 16" x 36" x 3"	□ ULTRILITE1
Outdoor Unit Stand — 12" High	□ QSMS1201M
Outdoor Unit Stand — 18" High	□ QSMS1801M
Outdoor Unit Stand — 24" High	□ QSMS2401M
Heavy Duty Wall Mounting Bracket— Coated Steel	□ QSWB2000M-1
Heavy Duty Wall Mounting Bracket — 316 Series Stainless Steel	□ QSWBSS
15' x 1/4" x 15' / 1/2" Lineset (Twin-Tube Insulation)	□ MLS141212T-15
30' x 1/4" x 30' / 1/2" Lineset (Twin-Tube Insulation)	□ MLS141212T-30
50' x 1/4" x 50' / 1/2" Lineset (Twin-Tube Insulation)	□ MLS141212T-50
65' x 1/4" x 65' / 1/2" Lineset (Twin-Tube Insulation)	□ MLS141212T-65
100' x 1/4" x 100' / 1/2" Lineset (Twin-Tube Insulation)	□ MLS141212T-100

# DIMENSIONS: MSZ-WR18NA



## 18 KBTU/H

Piping	Insulation	Ø2 O.D
	Liquid line	Ø5/16 15-3/8 (Flared connection Ø1/4)
	Gas line	Ø15/32 13-3/8 (Flared connection Ø1/2)
Drain hose		Insulation Ø1-1/8 Connected part Ø5/8 O.D

## 24 KBTU/H

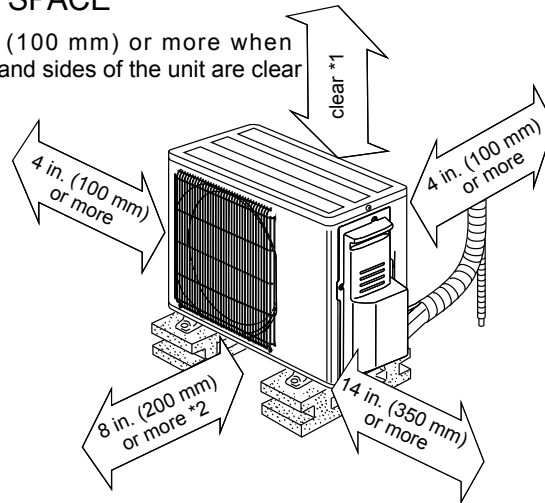
Piping	Insulation	Ø2 O.D
	Liquid line	Ø5/16 15-3/8 (Flared connection Ø3/8)
	Gas line	Ø15/32 13-3/8 (Flared connection Ø5/8)
Drain hose		Insulation Ø1-1/8 Connected part Ø5/8 O.D

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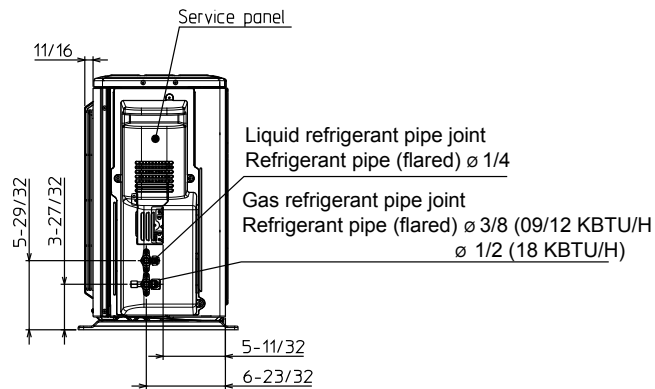
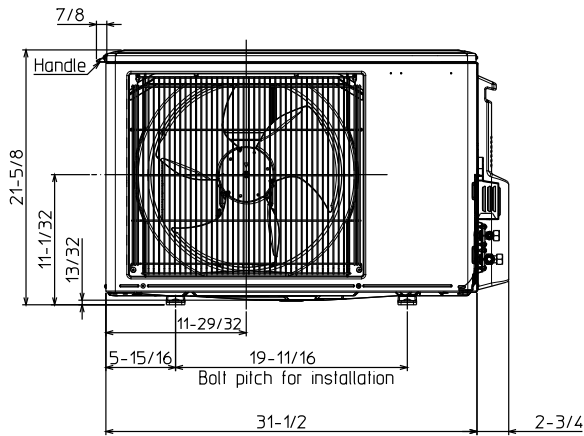
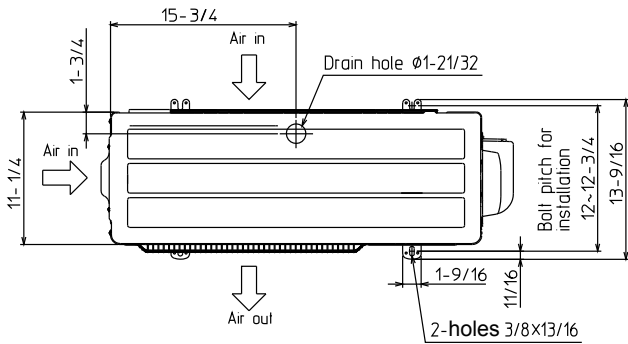
Unit: inch

## 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



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Specifications are subject to change without notice.

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