Job Name:

System Reference: Date:

Indoor Unit: MLZ-KP09NA	Outdoor Unit: SUZ-KA09NA2	Wireless Remote Controller

INDOOR UNIT FEATURES
- Fits between 16" joists spacing
- Stylish, square design panel
- Built-in condensate lift mechanism (19.6")
- Serviceable from the bottom (electrical and flare connections)
- Adjustable fan speeds and vane directions
- Washable antibacterial and deodorizing filter
- 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
- Pocket inside the access panel for kumo cloud® Wireless Interface

OUTDOOR UNIT FEATURES
- Variable speed INVERTER-driven compressor
- Innovative Joint Lap DC Motor leads to high efficiency and reliability
- Pulse Amplitude Modulation technology
- High-performance grooved piping for increased heat exchange efficiency

Specifications are subject to change without notice.

SPECIFICATIONS: MLZ-KP09NA & SUZ-KA09NA2

Cooling at 95°F[1]	Maximum Capacity	Btu/h	9,000
	Rated Capacity	Btu/h	9,000
	Minimum Capacity	Btu/h	3,600
	Maximum Power Input	W	710
	Rated Power Input	W	710
	Moisture Removal	Pints/h	1.5
	Sensible Heat Factor		0.82
	Power Factor (208/230V)	%	96
Cooling at 82°F	Maximum Capacity	Btu/h	9,500
	Rated Capacity	Btu/h	9,500
	Minimum Capacity	Btu/h	4,100
	Maximum Power Input	W	600
	Rated Power Input	W	600
Heating at 47°F[2]	Maximum Capacity	Btu/h	13,000
	Rated Capacity	Btu/h	12,000
	Minimum Capacity	Btu/h	4,010
	Maximum Power Input	W	1,000
	Rated Power Input	W	860
	Power Factor	%	98
Heating at 17°F[3]	Maximum Capacity	Btu/h	7,700
	Rated Capacity	Btu/h	7,700
	Maximum Power Input	W	700
	Rated Power Input	W	700
Heating at 5°F[4]	Maximum Capacity	Btu/h	6,100
	Maximum Power Input	W	580
Heating at -4°F[5]	Maximum Capacity	Btu/h	4,500
Efficiency	SEER		19.5
	EER[1]		12.6
	HSPF (IV)		13.3
	COP at 47°F[2]		4.09
	COP at 17°F in Maximum Capacity[3]		3.22
	COP at 5°F in Maximum Capacity[4]		3.08
	ENERGY STAR® Certified (ENERGY STAR products are third-party certified by an EPA-recognized Certification Body.)		Yes
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
	Voltage: Indoor - Remote Controller	V DC	Wireless type
	Recommended Fuse/Breaker Size	A	15
	Recommended Wire Size (Indoor - Outdoor)	AWG	14

Specifications are subject to change without notice.

SPECIFICATIONS: MLZ-KP09NA & SUZ-KA09NA2

Indoor Unit	MCA	A	1
	Fan Motor Full Load Amperage	A	0.76
	Fan Motor Output	W	30
	Airflow Rate at Cooling, Dry	CFM	311-283-254-212
	Airflow Rate at Cooling, Wet	CFM	264-240-216-180
	Airflow Rate at Heating, Dry	CFM	325-290-247-212
	Sound Pressure Level (Cooling)	dB(A)	38-34-31-27
	Sound Pressure Level (Heating)	dB(A)	37-34-29-26
	Drain Pipe Size	In. (mm)	1-1/4 (32)
	Condensate Lift Mechanism, Maximum Distance	In. (mm)	19-11/16 (500)
	Heat Exchanger Type		Plate fin coil
	External Finish Color		White
	Unit Dimensions	W: In. (mm)	43-3/8 (1,102)
		D: In. (mm)	14-3/16 (360)
		H: In. (mm)	7-5/16 (185)
	Package Dimensions	W: In. (mm)	46-5/16 (1,180)
		D: In. (mm)	15-3/4 (400)
		H: In. (mm)	11 (280)
	Unit Weight	Lbs. (kg)	34 (15.5)
	Package Weight	Lbs. (kg)	41 (18)
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	9
	MOCP	A	15
	Fan Motor Full Load Amperage	A	0.5
	Fan Motor Output	W	55
	Airflow Rate	CFM	1,229 / 1,172
	Refrigerant Control		LEV
	Defrost Method		Reverse cycle
	Heat Exchanger Type		Plate fin coil
	Blue Fin Coating on Heat Exchanger		Yes
	Sound Pressure Level, Cooling[1]	dB(A)	48
	Sound Pressure Level, Heating[2]	dB(A)	50
	Compressor Type		DC INVERTER-driven
	Compressor Model		KNB073FRVMC
	Compressor Rated Load Amps	A	6.2
	Compressor Locked Rotor Amps	A	7.7
	Compressor Oil Type // Charge	oz.	FV50S // 9.1
	External Finish Color		Ivory Munsell 3Y 7.8/1.1
	Base Pan Heater		Optional
	Unit Dimensions	W: In. (mm)	31-1/2 (800)

SPECIFICATIONS: MLZ-KP09NA & SUZ-KA09NA2

		D: In. (mm)	11-1/4 (285)
		H: In. (mm)	21-5/8 (550)
	Package Dimensions	W: In. (mm)	37 (940)
		D: In. (mm)	14-15/16 (380)
		H: In. (mm)	24-13/16 (630)
	Unit Weight	Lbs. (kg)	81 (37)
	Package Weight	Lbs. (kg)	88 (40)
Outdoor Unit Operating Temperature Range	Cooling Air Temp (Maximum / Minimum)*	°F	115 / 14
	Cooling Thermal Lock-out / Re-start Temperatures**	°F	-1 / 3
	Heating Air Temp (Maximum / Minimum)	°F	75 / -4
	Heating Thermal Lock-out / Re-start Temperatures**	°F	-9 / -4
Refrigerant	Type		R410A
	Charge	Lbs, oz	2, 5
Piping	Gas Pipe Size O.D. (Flared)	In.(mm)	3/8 (9.52)
	Liquid Pipe Size O.D. (Flared)	In.(mm)	1/4 (6.35)
	Maximum Piping Length	Ft. (m)	65
	Maximum Height Difference	Ft. (m)	40
	Maximum Number of Bends		10

Notes

AHRI Rated Conditions (Rated data is determined at a fixed compressor speed)	[1]Cooling (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
Conditions	[4]Heating at 5°F (Indoor // Outdoor)	°F	70 DB, 60 WB // -4 DB, -5 WB
	[5]Heating at -4°F (Indoor // Outdoor)	°F	70 DB, 60 WB // -4 DB, -5 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.

Notes

ACCESSORIES: MLZ-KP09NA

Grille (required)	□ MLP-444W
Anti-allergy Enzyme Filter	□ MAC-408FT-E
Backlit, Wall-mounted, Wireless Controller	□ MHK1
Portable Central Controller	□ MCCH1
Wired MA Controller[1]	□ PAR-33MAA
Simple MA Controller[1]	□ PAC-YT53CRAU
Touch MA Controller[1]	□ PAR-CT01MAU-SB
Wired Remote Sensor	□ M21-EAA-307
Wireless Temperature and Humidity Sensor	□ PAC-USWHS003-TH-1
Outside Air Sensor for MHK1	□ MOS1
System Control Interface[2]	□ MAC-333IF-E
External Fan / Heater Control Relay Adapter	□ CN24RELAY-KIT-CM3
Wireless Interface	□ PAC-USWHS002-WF-1
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
External Fan / Heater Control Relay Adapter	□ CN24RELAY-KIT-CM3
Lockdown Bracket for Hand-held Remote Controllers	□ RCMKP1CB
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	□ DPLS2
(30A/600V/UL) [fits 2" X 4" utility box] - Black	□ TAZ-MS303
(30A/600V/UL) [fits 2" X 4" utility box] - White	□ TAZ-MS303W

[1] Requires MAC-333IF-E

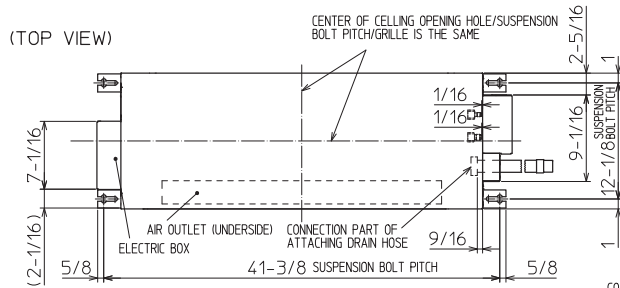[2] Allows indoor units to connect to an MA Controller

ACCESSORIES: SUZ-KA09NA2

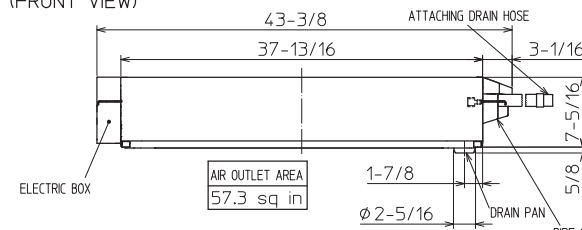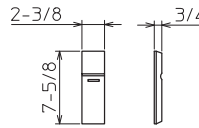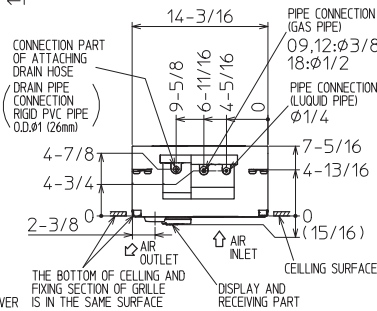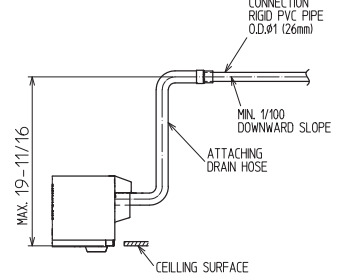|	
Air Outlet Guide	□ MAC-881SG
Optional Defrost Heater	□ MAC-640BH-U
Hail Guard	□ HG-B4
Outdoor Unit 3-1/4 inch Mounting Base (Pair) - Plastic	□ DSD-400P
Condensing Unit Mounting Pad 16" x 36" x 3"	□ ULTRILITE1
Outdoor Unit Stand — 12" High	□ QSMS1201M
Outdoor Unit Stand — 18" High	□ QSMS1801M
Outdoor 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' / 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
65' x 1/4" x 65' / 3/8" Lineset (Twin-Tube Insulation)	□ MLS143812T-65

Unit: inch

INDOOR UNIT OUTLINE DRAWING

(TOP VIEW)

CENTER OF CELLING OPENING HOLE/SUSPENSION BOLT PITCH/GRILLE IS THE SAME

2-5/16 · 1
1/16
1/16
9-1/16 · 12-1/8 SUSPENSION BOLT PITCH
7-1/16
(2-1/16)
5/8
AIR OUTLET (UNDERSIDE) ELECTRIC BOX
CONNECTION PART OF ATTACHING DRAIN HOSE
9/16
41-3/8 SUSPENSION BOLT PITCH
5/8 · 1

(FRONT VIEW)

43-3/8
37-13/16
ATTACHING DRAIN HOSE
3-1/16
DRAIN PIPE CONNECTION RIGID PVC PIPE O.D.Ø1 (26mm)
7-5/16
ELECTRIC BOX
AIR OUTLET AREA 57.3 sq in
1-7/8
5/8
Ø2-5/16
DRAIN PAN
PIPE COVER

REMOTE CONTROLLER OUTLINE DRAWING

2-3/8 · 3/4
7-5/8

(RIGHT SIDE VIEW)

14-3/16
PIPE CONNECTION (GAS PIPE) 09,12:Ø3/8 18:Ø1/2
CONNECTION PART OF ATTACHING DRAIN HOSE
DRAIN PIPE CONNECTION RIGID PVC PIPE O.D.Ø1 (26mm)
9-5/8 6-11/16 4-5/16 0
PIPE CONNECTION (LUQUID PIPE) Ø1/4
7-5/16
4-7/8
4-3/4
4-13/16
2-3/8 · 0
(15/16)
THE BOTTOM OF CELLING AND FIXING SECTION OF GRILLE IS IN THE SAME SURFACE
AIR OUTLET
AIR INLET
CEILING SURFACE
DISPLAY AND RECEIVING PART
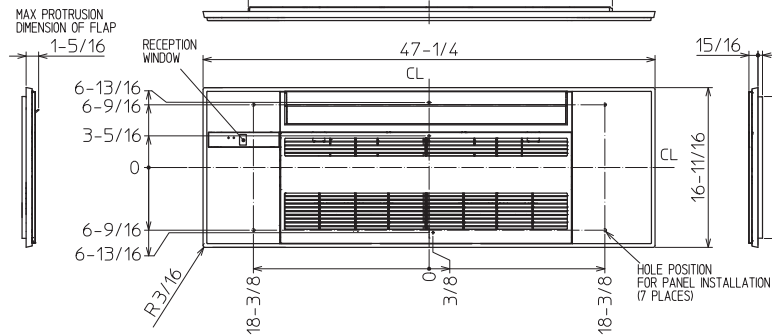
THE METHOD FOR STANDING DRAIN FROM INDOOR UNIT
※ CUT THE DRAIN HOSE (ACCESSORY) FOR USE, IF NECESSARY.

DRAIN PIPE CONNECTION RIGID PVC PIPE O.D.Ø1 (26mm)
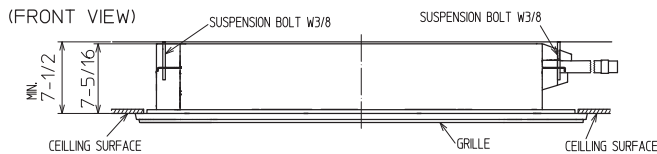MIN. 1/100 DOWNWARD SLOPE
ATTACHING DRAIN HOSE
MAX. 19-11/16
CEILING SURFACE

GRILLE OUTLINE DRAWING
(MLP-444W)

38-1/16
MAX PROTRUSION DIMENSION OF FLAP 1-5/16
RECEPTION WINDOW
47-1/4
CL
15/16 1/2
6-13/16
6-9/16
3-5/16
0
16-11/16
CL
14-13/16
6-9/16
6-13/16
R3/16
18-3/8
3/8
0
18-3/8
HOLE POSITION FOR PANEL INSTALLATION (7 PLACES)

		09/12 kBtu/h	18 kBtu/h
EXTENSION PIPE	LIQUID PIPE O.D.	Ø1/4	
	GAS PIPE O.D.	Ø3/8	Ø1/2
CONNECTIONG OF PIPE	LIQUID PIPE	FLARED CONNECTION Ø1/4	
	GAS PIPE	FLARED CONNECTION Ø3/8	FLARED CONNECTION Ø1/2
DRAIN HOSE		HEAT INSULATER O.D. Ø1-1/4 CONNECTION I.D. Ø1 EFFECTIVE LENGTH 18-7/8	
DRAIN PIPE CONNECTION		RIGID PVC PIPE O.D. Ø1 (26mm)	

NOTE1. CUT THE DRAIN HOSE (ACCESSORY) FOR USE, IF NECESSARY.
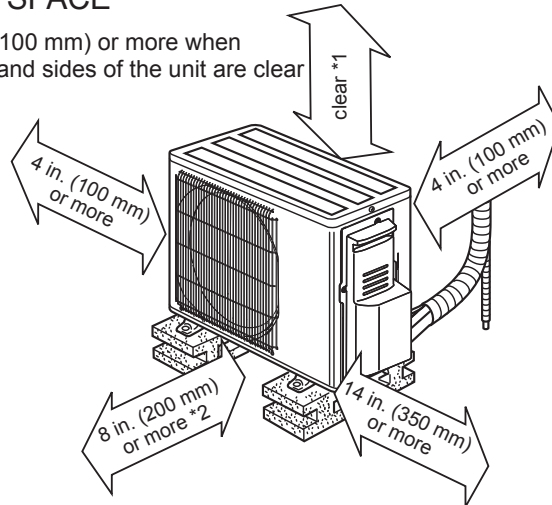
INDOOR UNIT DETAIL VIEW
(TOP VIEW)

CENTER OF CELLING OPENING HOLE/SUSPENSION BOLT PITCH/ GRILLE IS THE SAME
13/16
1-1/2
16-11/16 OUTLINE OF GRILLE
15-1/8 CELLING OPENING HOLE
12-1/8 SUSPENSION BOLT PITCH
13/16
1-1/2
AIR OUTLET (UNDERSIDE)
AIR OUTLET
3-15/16
2-1/8
13/16
37-13/16
41-3/8 SUSPENSION BOLT PITCH
45-11/16 CELLING OPENING HOLE
47-1/4 OUTLINE OF GRILLE
3-15/16
2-1/8
13/16

(FRONT VIEW)

SUSPENSION BOLT W3/8
SUSPENSION BOLT W3/8
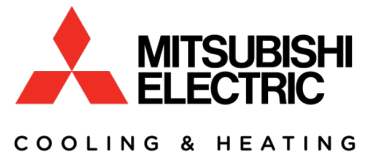MIN. 7-1/2
7-5/16
CEILING SURFACE
GRILLE
CEILING SURFACE
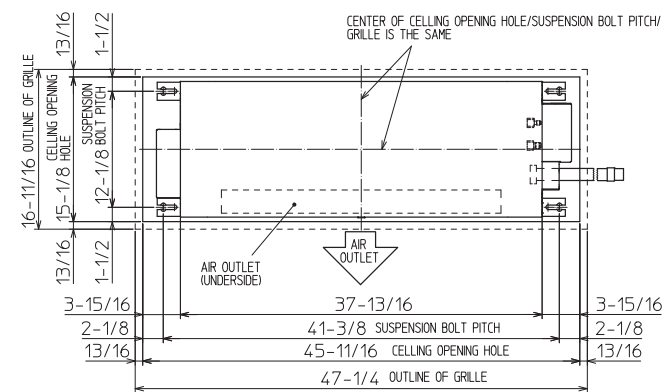
Unit: inch(mm)

REQUIRED SPACE

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

clear *1

4 in. (100 mm) or more

4 in. (100 mm) or more

8 in. (200 mm) or more *2

14 in. (350 mm) or more

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

15-3/4
Air in
1-3/4
11-1/4
Air in
Air out

Drain hole ⌀1-21/32 **(KA09/12/15NA)**
Drain hole ⌀1-5/16 **(KA09/12/15NAH)**

Bolt pitch for installation
12~12-3/4
13-9/16
1-9/16
11/16
2-holes 3/8×13/16

7/8
Handle
21-5/8
11-1/32
13/32
11-29/32
5-15/16
19-11/16
Bolt pitch for installation
31-1/2
2-3/4

Service panel
11/16
5-29/32
3-27/32

Liquid refrigerant pipe joint
Refrigerant pipe (flared) ⌀ 1/4

Gas refrigerant pipe joint
Refrigerant pipe (flared) ⌀ 3/8 **(KA09/12)**
⌀ 1/2 **(KA15)**

5-11/32
6-23/32

MITSUBISHI ELECTRIC

COOLING & HEATING

1340 Satellite Boulevard, Suwanee, GA 30024
Toll Free: 800-433-4822 www.mehvac.com

AHRI CERTIFIED
www.ahridirectory.org
Unitary Small HP
AHRI Standard 210/240

ETL US
Intertek

FORM# MLZ-KP09NA / SUZ-KA09NA2 - 201902