Job Name:

System Reference: Date:

Indoor Unit MFZ-KJ09NA

Outdoor Unit MUFZ-KJ09NAHZ

INDOOR UNIT FEATURES

- Floor-mounted indoor unit mounts on the floor or up to 5" above the floor
- Floor front panel access to the filter for ease of cleaning
- Perfect for difficult areas that may be smaller or don't have usable space on the walls
- Multiple fan speed options: Low, Medium, High, Powerful, Auto
- Quiet operation
- Multi-flow vane for faster heating
- 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
- Unit can be recessed mounted into wall

OUTDOOR UNIT FEATURES

- Built-in base pan heater

SPECIFICATIONS: MFZ-KJ09NA & MUFZ-KJ09NAHZ

Cooling at 95°F[1]	Maximum Capacity	BTU/H	14,000
	Rated Capacity	BTU/H	9,000
	Minimum Capacity	BTU/H	2,300
	Maximum Power Input	W	1,250
	Rated Power Input	W	570
	Moisture Removal	Pints/h	1.4
	Sensible Heat Factor		0.79
	Power Factor [208V / 230V]	%	86.0 / 86.0
Heating at 47°F[2]	Maximum Capacity	BTU/H	19,000
	Rated Capacity	BTU/H	11,000
	Minimum Capacity	BTU/H	2,900
	Maximum Power Input	W	2,370
	Rated Power Input	W	750
	Power Factor [208V / 230V]	%	94.0 / 94.0
Heating at 17°F[3]	Maximum Capacity	BTU/H	13,400
	Rated Capacity	BTU/H	7,500
	Maximum Power Input	W	1,860
	Rated Power Input	W	810
Heating at 5°F[4]	Maximum Capacity	BTU/H	11,000
	Maximum Power Input	W	1,600
Heating at -4°F[5]	Maximum Capacity	BTU/H	9,130
Heating at -13°F[7]	Maximum Capacity	BTU/H	7,260
Efficiency	SEER		28.2
	EER[1]		15.8
	HSPF [IV]		13.0
	COP at 47°F[2]		4.3
	COP at 17°F at Maximum Capacity[3]		2.11
	COP at 5°F at Maximum Capacity[4]		2.01
	ENERGY STAR® Certified		Yes
Electrical	Voltage, Phase, Frequency		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 (Oudoor)	A	15
	Recommended Wire Size [Indoor - Outdoor]	AWG	14
	Power Supply		Indoor unit is powered by the outdoor unit
Indoor Unit	MCA	A	1.0
	Fan Motor Full Load Amperage	A	0.62
	Fan Motor Type		DC Motor
	Airflow Rate at Cooling, Dry	CFM	138–198–272–360–417
	Airflow Rate at Cooling, Wet	CFM	117–168–231–306–354
	Airflow Rate at Heating, Dry	CFM	138–191–254–328–417
	Sound Pressure Level [Cooling]	dB[A]	21–27–34–41–46
	Sound Pressure Level [Heating]	dB[A]	21–27–34–40–46
	Drain Pipe Size	In. [mm]	5/8 O.D [15]
	Coating on Heat Exchanger		—
	External Finish Color		Munsell 1.0Y 9.2/0.2
	Unit Dimensions	W x D x H: In. [mm]	29-17/32 x 8-15/32 x 23-5/8 [750 x 215 x 600]
	Package Dimensions	W x D x H: In. [mm]	32-2/16 x 10-3/16 x 27-2/16 [816 x 275 x 693]
	Unit Weight	Lbs. [kg]	33 [15.0]
	Package Weight	Lbs. [kg]	41 [18.5]
Indoor Unit Operating Temperature Range	Cooling Intake Air Temp [Maximum / Minimum]*	°F	90 DB, 73 WB / 67 DB, 57 WB
	Heating Intake Air Temp [Maximum / Minimum]	°F	80 DB / 70 DB

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 // 5 DB, 4 WB
[5]Heating at -4°F (Indoor // Outdoor) °F 70 DB, 60 WB // -4 DB, -5 WB
[7]Heating at -13°F (Indoor // Outdoor) °F 70 DB, 60 WB // -13 DB, -14 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 to avoid thermistor error and automatically restarts at these temperatures.

SPECIFICATIONS: MFZ-KJ09NA & MUFZ-KJ09NAHZ

Outdoor Unit	MCA	A	11.0
	MOCP	A	15
	Fan Motor Full Load Amperage	A	0.5
	Fan Motor Output	W	50
	Airflow Rate [Cooling / Heating]	CFM	1074 / 1202
	Refrigerant Control		LEV
	Defrost Method		Reverse Cycle
	Sound Pressure Level, Cooling[1]	dB(A)	48
	Sound Pressure Level, Heating[2]	dB(A)	50
	Compressor Type		DC INVERTER-driven Twin Rotary
	Compressor Model		SNB140FQUMT
	Compressor Rated Load Amps	A	8.2
	Compressor Locked Rotor Amps	A	10.3
	Compressor Oil [Type // Charge]	oz.	FV50S // 11.8
	External Finish Color		Munsell 3Y 7.8/1.1
	Base Pan Heater		Built-in
	Unit Dimensions	W x D x H: In. [mm]	31-1/2 x 11-1/4 x 21-5/8 [800 x 285 x 550]
	Package Dimensions	W x D x H: In. [mm]	37 x 14-15/16 x 24-13/16 [940 x 380 x 630]
	Unit Weight	Lbs. [kg]	83 [38]
	Package Weight	Lbs. [kg]	90 [90]
Outdoor Unit Operating Temperature Range	Cooling Air Temp [Maximum / Minimum]*	°F	115 DB / 14 DB
	Cooling Thermal Lock-out / Re-start Temperatures**	°F	11 / 14
	Heating Air Temp [Maximum / Minimum]	°F	75 DB, 65 WB / -13 DB, -14 WB
	Heating Thermal Lock-out / Re-start Temperatures**	°F	-18 / -14
Refrigerant	Type		R410A
	Maximum Charge Quantity	Lbs, oz	2.0, 10.0
	Initial Charge Quantity	Ft. [m]	25.0 [7.5]
	Additional Refrigerant Charge Per Additional Piping Length	oz./Ft. [g/m]	0.216 [20]
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 [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)

	[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 // 5 DB, 4 WB
	[5]Heating at -4°F (Indoor // Outdoor)	°F	70 DB, 60 WB // -4 DB, -5 WB
	[7]Heating at -13°F (Indoor // Outdoor)	°F	70 DB, 60 WB // -13 DB, -14 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 to avoid thermistor error and automatically restarts at these temperatures.

INDOOR UNIT ACCESSORIES: MFZ-KJ09NA

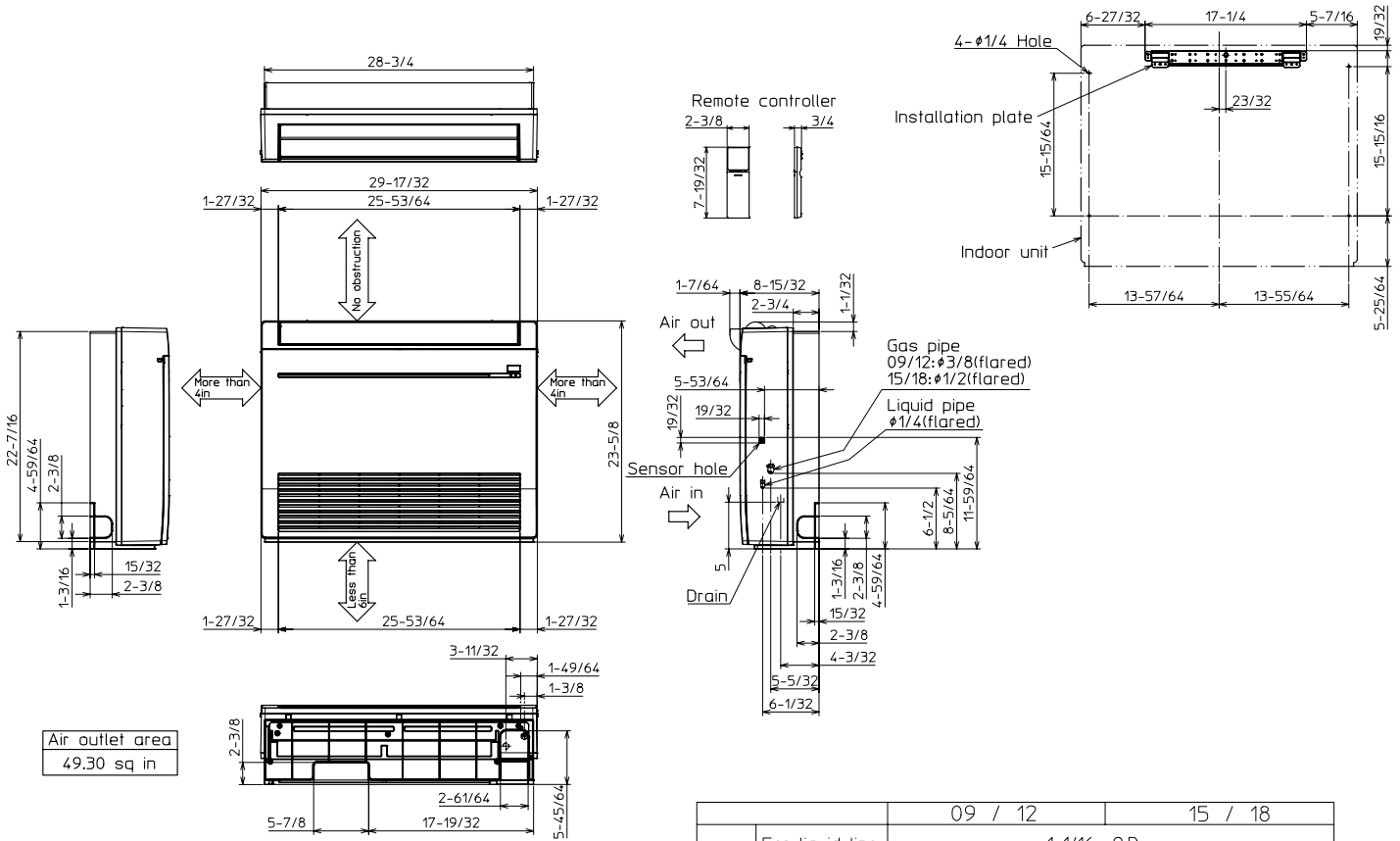|		
Control Interface	BACnet® and Modbus® Interface	PAC-UKPRC001-CN-1
	CN24 Relay Kit	CN24RELAY-KIT-CM3
	IT Extender	PAC-WHS01IE-E
	kumo station® for kumo cloud®	PAC-WHS01HC-E
	Lockdown bracket for remote controller	RCMKP1CB
	System Control Interface	MAC-334IF-E
	Thermostat Interface	PAC-US444CN-1
	Thermostat Interface	PAC-US445CN-1
	USNAP Adapter	PAC-WHS01UP-E
	Wireless Interface for kumo cloud®	PAC-USWHS002-WF-2
Remote Sensor	Wired Remote Sensor	M21EAA307
	Wireless temperature and humitity sensor for kumo cloud®	PAC-USWHS003-TH-1
Wired Remote Controller	Deluxe Wired MA Remote Controller†	PAR-40MAAU
	Simple MA Remote Controller†	PAC-YT53CRAU-J
	Touch MA Controller†	PAR-CT01MAU-SB
Wireless Remote Controller	kumo touch™ RedLINK™ Wireless Controller	MHK2
Condensate	Blue Diamond (Advanced) Mini Condensate Pump w/ Reservoir & Sensor (208/230V) [recommended]	X87-721
	Blue Diamond (MicroBlue) Mini Condensate Pump (110/208/230V) up to 18,000 BTU/H	X86-003
	Refco Condensate Pump (100-240 VAC) up to 120,000 BTU/H	COMBI
Disconnect Switch	(30A/600V/UL) [fits 2" X 4" utility box] - Black	TAZ-MS303
Drain Hose	Flexible Mini-Split Drain Hose	DRX-16
Floor Mount Air Guide	Floor Mount Air Guide	MAC-760FD-E
Lineset	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

NOTES:
†Requires MAC-334IF-E
  • M-Series EZ FIT® Recessed Ceiling Cassette, Floor-mount and Wall-mount
    Allows indoor units to connect to an MA Controller:
      Deluxe MA Remote Controller
      Simple MA Controller
      Touch MA Controller

OUTDOOR UNIT ACCESSORIES: MUFZ-KJ09NAHZ

Air Outlet Guide	Air Outlet Guide	MAC-881SG
	Air Outlet Guide	MAC-886SG-E
Control/Service Tool	M- & P-Series Maintenance Tool Cable Set	M21EC0397
	USB/UART Conversion Cable (Required for all laptop connection)	M21EC1397
Hail Guards	Hail Guard	HG-A7
	Hail Guard	HG-B4
Mini-Split Wire	14 Gauge, 4 wire MiniSplit Cable—250 ft. roll	S144-250
	14 Gauge, 4 wire MiniSplit Cable—50 ft. roll	S144-50
	16 Gauge, 4 wire MiniSplit Cable—250 ft. roll	S164-250
	16 Gauge, 4 wire MiniSplit Cable—50 ft. roll	S164-50
Mounting Pad	Condensing Unit Mounting Pad: 16" x 36" x 3"	ULTRILITE1
	Outdoor Unit 3-1/4 inch Mounting Base (Pair) - Plastic	DSD-400P
Stand	18" Single Fan Stand	QSMS1801M
	24" Single Fan Stand	QSMS2401M
	Condenser Wall Bracket	QSWB2000M-1
	Condenser Wall Bracket - Stainless Steel Finish	QSWBSS
	Outdoor Unit Stand — 12" High	QSMS1201M

Unit: inch

Remote controller

Installation plate

Indoor unit

4-φ1/4 Hole

No obstruction

More than 4in

More than 4in

Air out

Air in

Gas pipe
09/12: φ3/8(flared)
15/18: φ1/2(flared)

Liquid pipe
φ1/4(flared)

Sensor hole

Drain

Less than 6in

Air outlet area
49.30 sq in

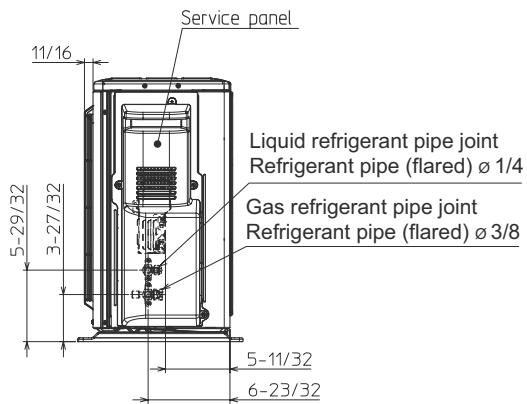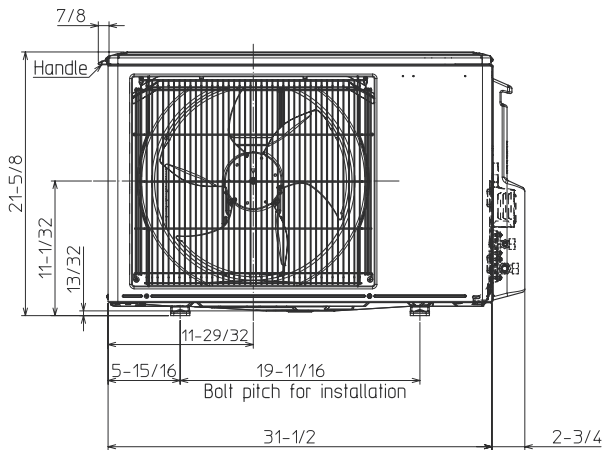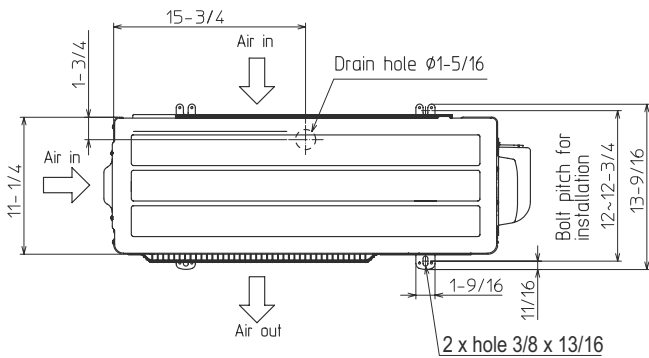|		09 / 12	15 / 18
Pipe cover	For liquid line	1-1/16 O.D	
	For gas line	1-1/16 O.D	1-7/32 O.D
Piping	Liquid line	Flared connection 1/4	
	Gas line	Flared connection 3/8	Flared connection 1/2
Drain hose		Heat insulater 1-9/64 O.D Connection point 5/8 O.D	Effective length 13-25/32 (case of right backward piping)

Unit: inch

REQUIRED SPACE

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

clear *1

4 in. or more

4 in. or more

8 in. or more *2

14 in. or more
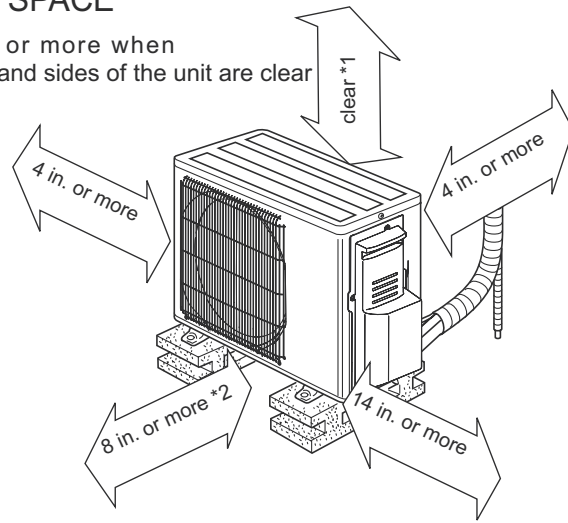
*2 When any 2 sides of left, right
and rear of the unit are clear

15-3/4

Air in

1-3/4

Drain hole ⌀1-5/16

Air in

11-1/4

Bolt pitch for installation

12~12-3/4

13-9/16

Air out

1-9/16

11/16

2 x hole 3/8 x 13/16

Service panel

7/8

11/16

Handle

21-5/8

11-1/32

13/32

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

Gas refrigerant pipe joint
Refrigerant pipe (flared) ⌀ 3/8

5-29/32

3-27/32

11-29/32

5-15/16

19-11/16

Bolt pitch for installation

31-1/2

2-3/4

5-11/32

6-23/32

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