MODEL: MHK2 kumo touch™

Job Name:

System Reference:

Date:

MIFH2

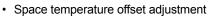
MRC2

MRCH2



MRCH2 REMOTE CONTROLLER SPECIFICATIONS

- Touch panel, Backlit, easy-to-read display
- Used RedLINK[™] 3.0 wireless technology
 - Not compatible with MHK1, MOS1, and MCCH1 RedLINK 2.0 wireless technology environment.
- User functions allow user to set:
 - On/Off
 - Operation modes cool, heat, drying, fan
 - Set temperature (separate dual set points for heat and cool)
 - Fan speed setting
 - Airflow direction
- Set temperature range limits (dependent on the system connected):
 - Cooling from 50° to 99° F
 - Heating from 40° to 90° F
 - Auto from 50° to 90° F with dual temperature setting
- MHK2 Scheduling options:
 - No Schedule
 - MO-SU = Every day the same
 - MO-FR, SA, SU = 5-1-1 schedule
 - MO-FR, SA-SU = 5-2 schedule
 - Each Day = Every day individual
 - Allow kumo cloud to be schedule holder
- Hold function
- Temporary or Permanent schedule override
- Lockout:
 - On
 - Off
 - Mode
 - Fan Speed
 - Set point
 - Vane Direction
- Day/Time display with a 12 or 24-hour clock
- Supports both Fahrenheit and Celsius
- RedLINK[™] Wireless Connection Status
- Filter sign display
- · Diagnostics: Displays and records error codes
- Adjustable auto mode deadband



- · Space humidity offset adjustment
- Hide (on screen only)
 - Indoor temperatureIndoor humidity
- Temperature Sensing Source
 - MHK2
 - Indoor Unit
 - RedLINK Wireless Indoor Air Sensor (IAS)
 - Average of MHK2 and RedLINK Wireless Indoor Air Sensor (IAS)
- Indoor Humidity Source
 - MHK2
 - RedLINK Wireless Indoor Air Sensor (IAS)
- Average of MHK2 and RedLINK Wireless Indoor Air Sensor (IAS)
- Improved indoor unit function code list
 - Indoor unit type
 - Expanded to 28 indoor unit codes
- · Reset to factory default
- Uses two "AA" alkaline batteries (included)
- Dimensions: 4-5/64" x 4-5/64" x 1-1/16" (104 x 104 x 27 mm)
- Operating Ambient Temperature: 32° to 120° F (0° to 48.9° C)
- Operating Relative Humidity: 5% to 90%

MIFH2 WIRELESS RECEIVER SPECIFICATIONS:

- Included in MHK2 Kit
- Mounts next to or near indoor units to allow MRCH2 Remote Controller operation
- · Connects to indoor unit control board with MRC2 Cable
- Dimensions: 3-3/32" H x 1-3/4" W x 39/64" D (74.8 x 44.4 x 15.4 mm)
- Operating Ambient Temperature: -40° to 165° F (-40° to 73.9° C)
- Operating Relative Humidity: 5% to 95%

MRC2 CABLE

- Included in MHK2 Kit in the MIFH2 box
- Connects MIFH2 Wireless Receiver to the CN105 connector on indoor unit control board
- Length: 39-23/64" (1 m)



MODEL: MHK2 kumo touch™



kumo cloud & MHK2

- kumo cloud and MHK2 can work together on the same indoor unit with the following devices:
 - Wireless Interface 2
 - PAC-USWHS002-WF-2
 - Wireless Interface 2 has an additional CN105 connector on it
 - MHK2 kit
- · Compatibility with indoor units:
 - All CITY MULTI®
 - All P-Series
 - All M-series

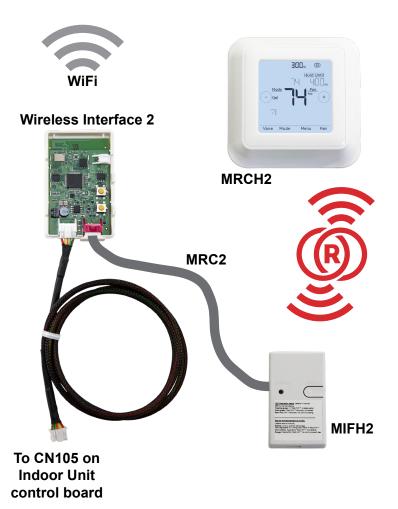
Accessories

Wireless Interface 2 (PAC-USWHS002-WF-2)

CN105 IT Extender (PAC-WHS01E-E)

RedLINK 3.0 Wireless Indoor Air Sensor

- Not sold by Mitsubishi Electric Trane HVAC LLC
- Honeywell (C7189R2002-2/U)



Specifications are subject to change without notice. 1340 Satellite Boulevard. Suwanee, GA 30024 Toll Free: 800-433-4822 www.mehvac.com © 2020 Mitsubishi Electric Trane HVAC US LLC. All rights reserved. M_Submittal_MHK2 kumo touch 03-2020

MXZ-4C36NA3 3-TON MULTI-ZONE INVERTER HEAT-PUMP SYSTEM



Job Name:

System Reference:

Date:



FEATURES

- Variable speed INVERTER-driven compressor
- Optional base pan heater
- Quiet outdoor unit operation as low as 54 dB(A)
- High pressure protection
- Compressor thermal protection
- Compressor overcurrent detection
- Fan motor overheating/voltage protection

SPECIFICATIONS: MXZ-4C36NA3

	Maximum Capacity	BTU/H	36,400 // 36,400 // 36,400
Cooling ¹ (Non-Ducted // Mix // Ducted)	Rated Capacity	BTU/H	35,400 // 34,900 // 34,400
	Minimum Capacity	BTU/H	11,700 // 11,500 // 11,300
coming (Non-Ducted // Mix // Ducted)	Maximum Power Input	W	3,960 // 3,960 // 3,960
	Rated Power Input	W	3,760 // 3,850 // 3,940
	Power Factor (208V, 230V)	%	99.0, 99.0 // 99.0, 99.0 // 99.0, 99.0
	Maximum Capacity	BTU/H	43,000 // 43,000 // 43,000
	Rated Capacity	BTU/H	36,000 // 35,200 // 34,400
eating at 47°F ² (Non-Ducted // Mix //	Minimum Capacity	BTU/H	18,300 // 18,800 // 19,300
ucted)	Maximum Power Input W		4,020 // 4,020 // 4,020
	Rated Power Input W		3,020 // 3,060 // 3,100
	Power Factor (208V, 230V) %		98.7, 98.7 // 98.8, 98.8 // 98.8, 98.8
	Maximum Capacity	BTU/H	26,600 // 26,600 // 26,600
Heating at 17°F3 (Non-Ducted // Mix //	Rated Capacity	BTU/H	22,400 // 22,400 // 22,400
ucted)	Maximum Power Input	W	3,440 // 3,490 // 3,540
	Rated Power Input	W	2,300 // 2,470 // 2,640
eating at 5°F ⁴ (Non-Ducted // Mix //	Maximum Capacity	BTU/H	24,000 // 24,000 // 24,000
ucted)	Maximum Power Input	W	3,320 // 3,280 // 3,240
	SEER		19.2 // 17.6 // 16.0
	EER ¹		9.41 // 9.07 // 8.73
	HSPF (IV)		11.0 // 10.4 // 9.8
ficiency (Non-Ducted // Mix // Ducted)	COP at 47°F ²		3.5 // 3.37 // 3.25
	COP at 17°F at Maximum Capacity ³		2.27 // 2.24 // 2.2
	COP at 5°F at Maximum Capacity ⁴		2.12 // 2.14 // 2.17
	ENERGY STAR® Certified		No // No // No
	Electrical Power Requirements	Voltage, Phase, Frequency	208/230, 1, 60
	Guaranteed Voltage Range	VAC	187-253
	Voltage: Indoor - Outdoor, S1-S2	VAC	208/230
	Voltage: Indoor - Outdoor, S2-S3	V DC	24
ectrical	Short-circuit Current Rating (SCCR)	kA	5
	Recommended Fuse/Breaker Size	А	25
	Recommended Wire Size	AWG	14
	Minimum Circuit Ampacity	A	23.1
	Maximum Overcurrent Protection	A	25
	Fan Motor Full Load Amperage	A	2.43
	Airflow Rate (Cooling / Heating)	CFM	2,287 / 2,382
	Refrigerant Control		LEV
	Defrost Method		Reverse Cycle
	Heat Exchanger Type		Plate fin coil
	Sound Pressure Level, Cooling ¹	dB(A)	54
	Sound Pressure Level, Heating ²	dB(A)	56
	Compressor Type		
	Compressor Model		DC INVERTER-driven Twin Rotary SNB220FQGMC
	Compressor Rated Load Amps	A	12
	Compressor Locked Rotor Amps	A	13.7
utdoor unit	Compressor Oil Type // Charge	OZ.	FV50S // 23.7
	Base Pan Heater		Optional
		W: In. [mm]	37-13/32 [950]
	Unit Dimensions	D: In. [mm]	13 [330]
		H: In. [mm]	31-11/32 [796]
		W: In. [mm]	40-15/16 [1,040]
	Package Dimensions	D: In. [mm]	17-11/16 [450]
	r aurage Dimensions		40-11/16 [1,033]
	Unit Weight	H: In. [mm]	
		Lbs.[kg]	139 [63]
	Package Weight	Lbs.[kg]	159 [72]
Outdoor unit operating temperature	Cooling Intake Air Temp (Maximum / Minimum [*]) °FDB		115 / 14
	Cooling Thermal Lock-out / Re-start Temperatures	°FDB	10.4 / 14
	Heating Intake Air Temp (Maximum / Minimum) °FWB		65 / 5
		°FDB	1.4 / 5
	Heating Thermal Lock-out / Re-start Temperatures	L h a	
inge	Charge	Lbs, oz	6.0, 13.0
utdoor unit operating temperature ange tefrigerant		Lbs, oz Ft. [m] oz./Ft. [g/m]	6.0, 13.0 98.0 [30.0] 0.216 [20]

 $^4\text{Heating}$ at 5°F (Indoor // Outdoor) $^\circ\text{F}$ $^\circ$ 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. *A 5°F DB - 115°F DB when optional wind baffles are installed

For actual capacity performance based on indoor unit type and number of indoor units connected, please refer to MXZ Operational Performance. Although the maximum connectable capacity is 130%, the outdoor unit cannot provide more than 100% of the rated capacity. Please utilize this over capacity capability for load shedding or applications where it is known that all connected units will NOT be operating at the same time.

Conditions

SPECIFICATIONS: MXZ-4C36NA3

Indoor unit connection	Maximum Nur	Maximum Number of Connected IDU			4
	Minimum Num	n Number of Connected IDU			2
	Minimum conr	linimum connected capacity		BTU/H	12,000
	Maximum con	num connected capacity		BTU/H	42,000
Piping	Liquid Pipe Si	Liquid Pipe Size O.D. (Flared)		In.[mm]	A,B,C,D: 1/4 [A,B,C,D: 6.35]
	Gas Pipe Size	Gas Pipe Size O.D. (Flared)		In.[mm]	A: 1/2; B,C,D: 3/8 [A: 12.72; B,C,D: 9.52]
	Total Piping Le	ngth		Ft. [m]	230 [70]
	Maximum Hei	Maximum Height Difference, ODU above IDU		Ft. [m]	49 [15]
	Maximum Hei	Maximum Height Difference, ODU below IDU		Ft. [m]	49 [15]
	Farthest Pipin	Farthest Piping Length from ODU to IDU		Ft. [m]	82 [25]
	Maximum Nur	nber of Bends for IDU			70
NOTES: AHRI Rated Conditions (Rated data is determined at a fix	ed compressor speed)	¹ Cooling (Indoor // Outdoor) ² Heating at 47°F (Indoor // Outdoor) ³ Heating at 17°F (Indoor // Outdoor)	°F °F °F	80 DB, 67 WB // 95 DB, 75 WB 70 DB, 60 WB // 47 DB, 43 WB 70 DB, 60 WB // 17 DB, 15 WB	

Conditions

⁴Heating at 5°F (Indoor // Outdoor) Applications should be restricted to comfort cooling only; equipment cooling applications are not recommended for low ambient temperature conditions. ^ 5°F DB - 115°F DB when optional wind baffles are installed

For actual capacity performance based on indoor unit type and number of indoor units connected, please refer to MXZ Operational Performance. Although the maximum connectable capacity is 130%, the outdoor unit cannot provide more than 100% of the rated capacity. Please utilize this over capacity capability for load shedding or applications where it is known that all connected units will NOT be operating at the same time.

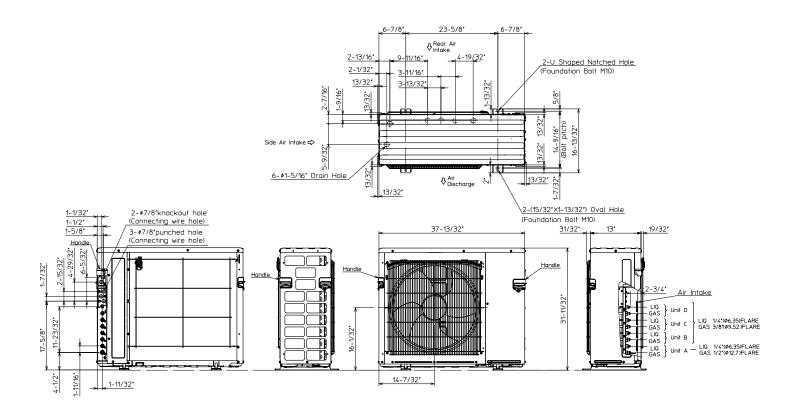
°F 70 DB, 60 WB // 5 DB, 4 WB

OUTDOOR UNIT ACCESSORIES: MXZ-4C36NA3

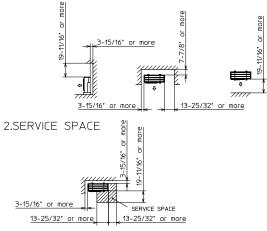
Ball Valve	Refrigeration Ball Valve - 1/2"	BV12FFSI2
	Refrigeration Ball Valve - 1/4"	BV14FFSI2
	Refrigeration Ball Valve - 3/8"	BV38FFSI2
	Refrigeration Ball Valve - 5/8"	BV58FFSI2
Control Wire	M-Net Control Wire, 1,000' Roll (16-AWG, Standard, Twisted Pair, Shielded, Jacketed- Plenum rated)	CW162S-1000
	M-Net Control Wire, 250' Roll (16-AWG, Standard, Twisted Pair, Shielded, Jacketed- Plenum rated)	CW162S-250
Drain Socket	Drain Socket	PAC-SG60DS-E
Hail Guards	Hail Guard	HG-A9
M-NET Converter	M-NET Converter	PAC-IF01MNT-E
	14 Gauge, 4 wire MiniSplit Cable—250 ft. roll	S144-250
	14 Gauge, 4 wire MiniSplit Cable—250 ft. roll	SW144-250
	14 Gauge, 4 wire MiniSplit Cable—50 ft. roll	S144-50
	14 Gauge, 4 wire MiniSplit Cable—50 ft. roll	SW144-50
Mini-Split Wire	16 Gauge, 4 wire MiniSplit Cable—250 ft. roll	S164-250
	16 Gauge, 4 wire MiniSplit Cable—250 ft. roll	SW164-250
	16 Gauge, 4 wire MiniSplit Cable—50 ft. roll	S164-50
	16 Gauge, 4 wire MiniSplit Cable—50 ft. roll	SW164-50
Mounting Dod	Condensing Unit Mounting Pad: 16" x 36" x 3"	ULTRILITE1
Mounting Pad	Outdoor Unit 3-1/4 inch Mounting Base (Pair) - Plastic	DSD-400P
Optional Defrost Heater	Optional Defrost Heater	PAC-645BH-E
Port Adapter	Adaptor: 1/2" x 3/8"	MAC-A455JP-E
	Adaptor: 1/2" x 5/8"	MAC-A456JP-E
	Adaptor: 3/8" x 1/2"	MAC-A454JP-E
	Adaptor: 3/8" x 5/8"	PAC-SG76RJ-E
	18" Single Fan Stand	QSMS1801M
	24" Single Fan Stand	QSMS2401M
Stand	Condenser Wall Bracket	QSWB2000M-1
	Condenser Wall Bracket - Stainless Steel Finish	QSWBSS
	Outdoor Unit Stand — 12" High	QSMS1201M

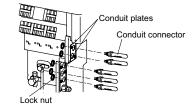
OUTDOOR UNIT DIMENSIONS: MXZ-4C36NA3

Unit: inch (mm)



1.FREE SPACE





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



FORM# MXZ-4C36NA3 - 202206

M-SERIES



Job Name:

System Reference:

Date:



GENERAL FEATURES

- · Ceiling-recessed cassette (24"x24") ductless heat pump
- · Install SLZ in a drywalled ceiling (with an access panel for servicing) or in a 2'x2' drop ceiling
- · Wide airflow pattern for excellent air distribution
- · Fresh air intake provided in the main body
- Built-in drain condensate lift mechanism (lifts to 33")
- · Multiple control options available:
 - kumo cloud[®] smart device app for remote access
 - Third-party interface options
 - Wired or wireless controllers
- · Long-life air filter included
- · Individual vane control

SPECIFICATIONS: SLZ-KF09NA

Cooling Capacity ^{1, 3}		Btu/h	9,000
Heating Capacity ^{2, 3}		Btu/h	11,000
	Voltage, Phase, Frequency	Voltage, Phase, Frequency	
Electrical	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	12
MCA		A	0.25
Fan Motor Full Load	Amperage	A	0.20
Fan Motor Output		W	50
Airflow Rate at Cooli	ing, Dry	CFM	300-265-230
Airflow Rate at Cooli	ing, Wet	CFM	270-239-207
Airflow Rate at Heat	ing, Dry	CFM	335-265-230
Sound Pressure Lev	rel (Cooling) ¹	dB(A)	31-28-25
Sound Pressure Lev	rel (Heating) ²	dB(A)	31-28-25
External Static Pressure		in.WG	N/A
Drain Pipe Size		In. (mm)	1 1/4 (32)
Condensate Lift Mechanism, Maximum Distance		In. (mm)	33 (850)
Heat Exchanger Typ	e		Plate fin coil
External Finish Colo	r		Munsell 1.0Y 9.2/0.2
Unit Dimensions		W: In. (mm)	22-7/16 (570)
		D: In. (mm)	22-7/16 (570)
		H: In. (mm)	9-21/32 (245)
Package Unit Dimensions		W: In. (mm)	24-13/32 (620)
		D: In. (mm)	27-15/16 (710)
		H: In. (mm)	9-7/16 (240)
Jnit Weight		Lbs. (kg)	31 (13.9)
Package Unit Weight		Lbs. (kg)	37 (17)
Pofrigorant	Туре	/pe	
Refrigerant	Charge	Lbs, oz	2, 5
Diping	Gas Pipe Size O.D. (Flared)	In.(mm)	3/8 (9.52)
Piping	Liquid Pipe Size O.D. (Flared)	In.(mm)	1/4 (6.35)

Notes:

Nominal Conditions	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 Capacity varies based on the number of indoor units operating and the model of the Multi-zone Outdoor Unit. For reference to connected capacity charts, please refer Multi-zone Outdoor Unit Operational Performance.			

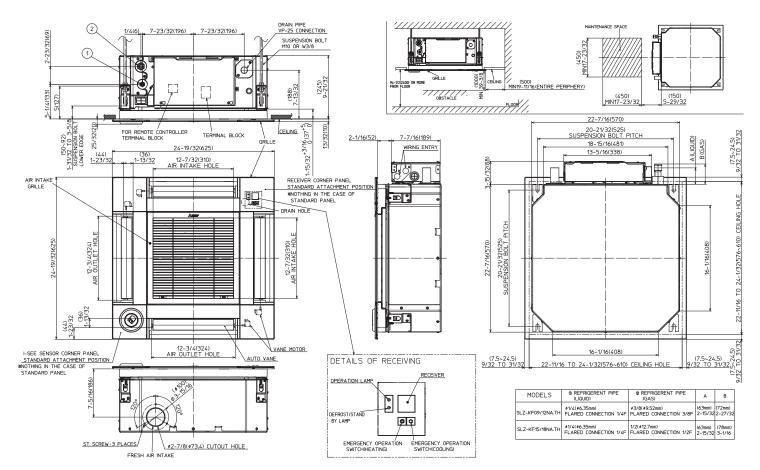
ACCESSORIES: SLZ-KF09NA

Wireless Signal Receiver	□ PAR-FA32MA-W
Wireless Signal Receiver	D PAR-FA32MA-E
Wireless Remote Receiver Panel	D PAR-SF9FA-E
Wireless Remote Controller	□ PAR-SL100A-E
Backlit, Wall-mounted, Wireless Controller	D MHK1
Portable Central Controller	MCCH1
Wired MA Controller	D PAR-33MAA
Simple MA Controller	D PAC-YT53CRAU
Touch MA Controller	□ PAR-CT01MAU-SB
Wired Remote Sensor	D PAC-SE41TS-E
Wireless Temperature and Humidity Sensor	□ PAC-USWHS003-TH-1
Outside Air Sensor for MHK1	MOS1
Flush Mount Remote Temperature Sensor	□ PAC-USSEN001-FM-1
System Control Interface	□ MAC-333IF-E
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
Wire for Remote on/off with CN32 connector	D PAC-715AD
Connector and wire for Operation status/error using CN51	D PAC-725AD
Connector cable for remote display	D PAC-SA88HA-EP
Connector for CN32 (remote on/off)	□ PAC-SE55RA-E
Remote Operation Adapter ¹	□ PAC-SF40RM-E
Grille (required)	SLP-18FAU
3D i-see Sensor™ Corner Panel	□ PAC-SF1ME-E
Grille with 3D i-see Sensor™	□ SLP-18FAEU
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
Advanced Blue Diamond Mini Condensate Pump w/ Reservoir & Sensor (208/230V) [recommended]	□ X87-721 - 208/230V
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
Unable to use with wireless remote controller	

¹ Unable to use with wireless remote controller

DIMENSIONS: SLZ-KF09NA

Unit: inch (mm)





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FORM# SLZ-KF09NA FOR MULTI-ZONE HEAT PUMP SYSTEMS - 201901