Job Name:

System Reference: Date:

MRCH2

MIFH2

MRC2

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 temperature offset adjustment
- Space humidity offset adjustment
- Hide (on screen only)
  - Indoor temperature
  - Indoor 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)

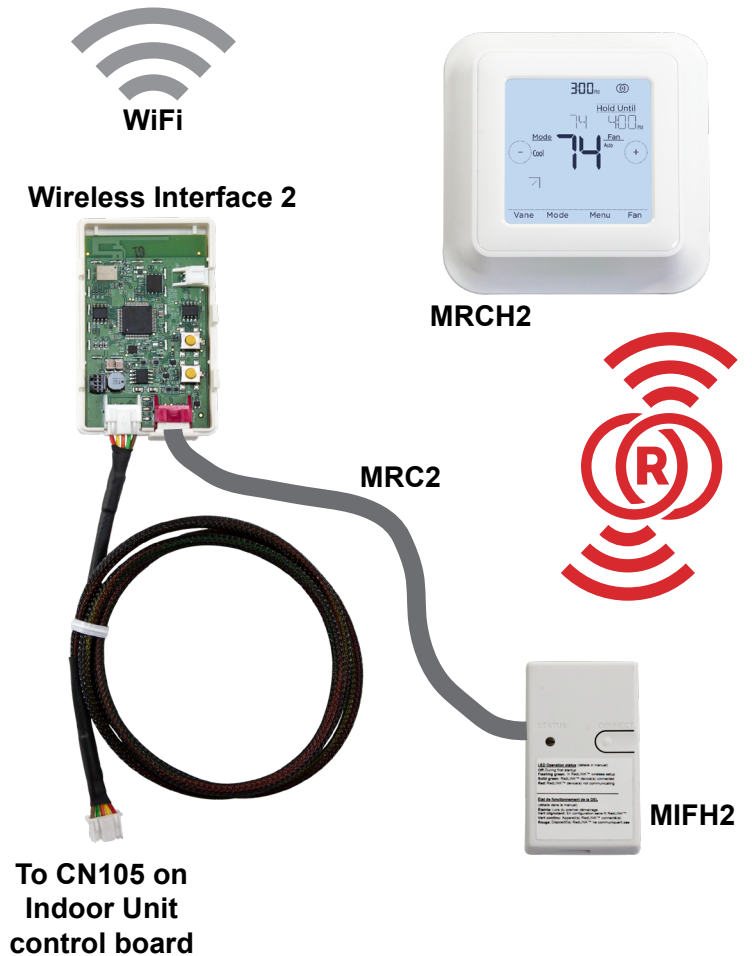Specifications are subject to change without notice.

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)

WiFi

Wireless Interface 2

MRC2

MRCH2

MIFH2

To CN105 on Indoor Unit control board

Job Name:	
System Reference:	Date:

GENERAL FEATURES

- Ducted air handler provides a solution to cool and heat larger zones
- Highly efficient completely enclosed EC motor
- Selectable external static pressure: 0.30, 0.50 and 0.80 in.WG with 3 fan speeds at each static setting
- 1 inch R4.2 fiberglass free insulation reduces condensation and increases efficiency
- Positive pressure cabinet with air leakage of less than 2.0% at 1.0 in. w.g. (Tested per ASHRAE Standard 193)
- Unique blow through design allows simple coil cleaning when the blower is removed
- Multi-position installation: horizontal (left or right), vertical (upflow)
- Optional electric heat kit for additional heating capacity
- Built-in humidifier control, ERV control and auxiliary heat control
- Optional downflow kit

SPECIFICATIONS: SVZ-KP12NA

Cooling Capacity[1, 3]		BTU/H	12,000
Heating Capacity[2, 3]		BTU/H	15,000
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	12
MCA		A	3
Fan Motor Full Load Amperage		A	2.4
Fan Motor Output		W	121
Airflow Rate at Cooling, Dry		CFM	448-381-278
Airflow Rate at Heating, Dry		CFM	448-381-278
Sound Pressure Level (Cooling)[1]		dB(A)	39-36-29
Sound Pressure Level (Heating)[2]		dB(A)	39-36-29
External Static Pressure		in.WG	0.30-0.50-0.80
Drain Pipe Size		In. (mm)	3/4 (19)
Heat Exchanger Type			Plate fin coil
External Finish Color			Black
Unit Dimensions	W: In. (mm)		17 (432)
	D: In. (mm)		21-5/8 (549)
	H: In. (mm)		39-13/16 (1,011)
Package Unit Dimensions	W: In. (mm)		18 (460)
	D: In. (mm)		28-3/4 (730)
	H: In. (mm)		44-3/8 (1,130)
Unit Weight		Lbs. (kg)	93 (42)
Package Unit Weight		Lbs. (kg)	106 (48)
Refrigerant	Type		R410A
	Charge	Lbs, oz	2, 9
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)

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.
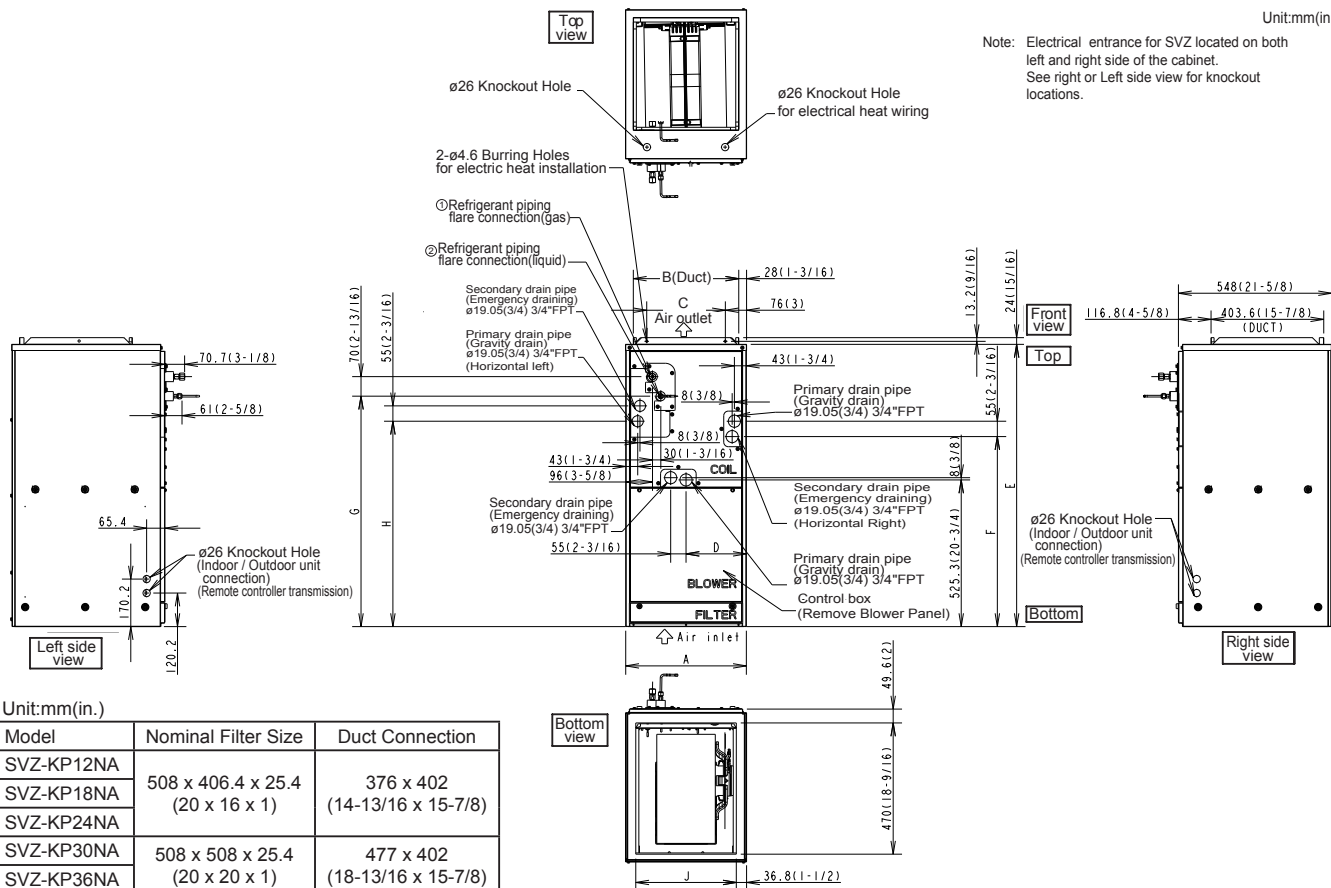
Specifications are subject to change without notice.

Wireless Signal Receiver	□ PAR-FA32MA-W
Wireless Remote Controller	□ PAR-FL32MA-E
kumo touch™ RedLINK™ Wireless Controller	□ MHK2
Deluxe MA Remote Controller	□ PAR-40MAAU
Simple MA Controller	□ PAC-YT53CRAU-J
Touch MA Controller	□ PAR-CT01MAU-SB
Airzone ZBS Wired Blueface Principal Controller White	□ AZZBSBLUEFACECB
Airzone ZBS Wired Think Controller White	□ AZZBSTHINKCB
Airzone ZBS Wireless Think Controller White	□ AZZBSTHINKRB
Airzone ZBS Wired Lite Controller White	□ AZZBSLITECB
Airzone ZBS Wireless Lite Controller White	□ AZZBSLITERB
Wired Remote Sensor	□ PAC-SE41TS-E
Wireless Temperature and Humidity Sensor	□ PAC-USWHS003-TH-1
Flush Mount Remote Temperature Sensor	□ PAC-USSEN001-FM-1
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
External Fan / Heater Control Relay Adapter	□ CN24RELAY-KIT-CM3
Connector cable for remote display	□ PAC-SA88HA-EP
Remote Operation Adapter[1]	□ PAC-SF40RM-E
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
(30A/600V/UL) [fits 2" X 4" utility box] - Black	□ TAZ-MS303
(30A/600V/UL) [fits 2" X 4" utility box] - White	□ TAZ-MS303W
Separate Power Terminal Block Kit	□ SPTB1
Electric Heat Lockout Control	□ ETC-211000-MIT
Downflow Kit	□ DFK-S
3kW Electric Heater	□ EH03-SVZ-S
5kW Electric Heater	□ EH05-SVZ-S

[1] Unable to use with wireless remote controller

Unit:mm(in.)

Note: Electrical entrance for SVZ located on both left and right side of the cabinet. See right or Left side view for knockout locations.

Top view

ø26 Knockout Hole

ø26 Knockout Hole for electrical heat wiring

2-ø4.6 Burring Holes for electric heat installation

① Refrigerant piping flare connection(gas)

② Refrigerant piping flare connection(liquid)

Secondary drain pipe (Emergency draining) ø19.05(3/4) 3/4"FPT

Primary drain pipe (Gravity drain) ø19.05(3/4) 3/4"FPT (Horizontal left)

B(Duct)

C Air outlet

28(1-3/16)

76(3)

43(1-3/4)

8(3/8)

8(3/8)

30(1-3/16)

43(1-3/4)

96(3-5/8)

55(2-3/16)

Primary drain pipe (Gravity drain) ø19.05(3/4) 3/4"FPT

COIL

Secondary drain pipe (Emergency draining) ø19.05(3/4) 3/4"FPT (Horizontal Right)

Primary drain pipe (Gravity drain) ø19.05(3/4) 3/4"FPT

Secondary drain pipe (Emergency draining) ø19.05(3/4) 3/4"FPT

BLOWER

FILTER

Control box (Remove Blower Panel)

Air inlet

A

Left side view

70.7(3-1/8)

61(2-5/8)

65.4

70.2

120.2

ø26 Knockout Hole (Indoor / Outdoor unit connection) (Remote controller transmission)

70(2-13/16)

55(2-3/16)

G

H

D

13.2(9/16)

24(15/16)

Front

Top

55(2-3/16)

525.31(20-3/4)

81(3/8)

E

F

Bottom

Unit:mm(in.)

548(21-5/8)

116.8(4-5/8)

403.6(15-7/8) (DUCT)

ø26 Knockout Hole (Indoor / Outdoor unit connection) (Remote controller transmission)

Right side view

49.6(2)

470(18-9/16)

J

36.8(1-1/2)

Bottom view

Unit:mm(in.)

Model	Nominal Filter Size	Duct Connection
SVZ-KP12NA	508 x 406.4 x 25.4 (20 x 16 x 1)	376 x 402 (14-13/16 x 15-7/8)
SVZ-KP18NA		
SVZ-KP24NA		
SVZ-KP30NA	508 x 508 x 25.4 (20 x 20 x 1)	477 x 402 (18-13/16 x 15-7/8)
SVZ-KP36NA		

Model	A	B	C	D	E	F	G	H	J	Gas Pipe	Liquid pipe
SVZ-KP12NA	432 (17)	376 (14-13/16)	281 (11-1/8)	224 (8-7/8)	1,010.8 (39-13/16)	680 (26-13/16)	823 (32-7/16)	735.5 (29)	360 (14-3/16)	ø 9.52 (3/8)	ø 6.35 (1/4)
SVZ-KP18NA										ø 12.7 (1/2)	
SVZ-KP24NA										ø 15.88 (5/8)	ø 9.52 (3/8)
SVZ-KP30NA	534 (21)	477 (18-13/16)	382.6 (15-1/8)	266.5 (10-1/2)	1,113.8 (43-7/8)	737 (29-1/16)	953.5 (37-9/16)	792 (31-3/16)	461 (18-3/16)		
SVZ-KP36NA											

AHRI CERTIFIED
Unitary Small HP
AHRI Standard 210/240

ETL US
Intertek

FORM# SVZ-KP12NA FOR MULTI-ZONE HEAT PUMP SYSTEMS - 202009

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