## MODEL: MHK2 kumo touch™



Job Name:

System Reference: Date:





#### 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)

## 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

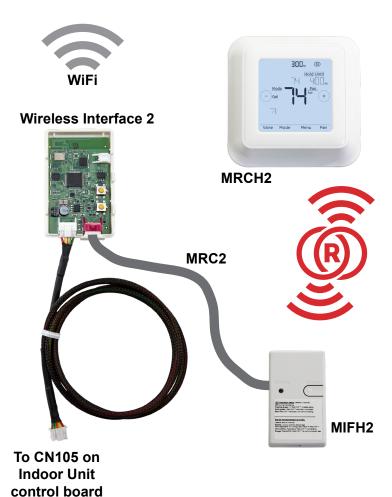
#### **Accessories**

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

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M\_Submittal\_MHK2 kumo touch 03-2020

# **M-SERIES**

## **SUBMITTAL DATA: SVZ-KP24NA**

24,000 BTU/H AIR HANDLING UNIT FOR MULTI-ZONE HEAT PUMP SYSTEMS



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)
- $\bullet\,$  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-KP24NA**

Cooling Capacity <sup>1, 3</sup>		BTU/H	24,000
Heating Capacity <sup>2, 3</sup>		BTU/H	25,000
	Voltage, Phase, Frequency		208/230V, 1 phase, 60Hz
	Guaranteed Voltage Range	V AC	187-253
Electrical	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		А	3
Fan Motor Full Load Amperage		А	2.4
Fan Motor Output		W	121
Airflow Rate at Cooling, Dry		CFM	735-625-515
Airflow Rate at Heating, Dry		CFM	735-625-515
Sound Pressure Level (Cooling)		dB(A)	38-34-30
Sound Pressure Level (Heating)	2	dB(A)	38-34-30
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
		W: In. (mm)	17 (432)
Unit Dimensions		D: In. (mm)	21-5/8 (549)
		H: In. (mm)	39-13/16 (1,011)
		W: In. (mm)	18 (460)
Package Unit Dimensions		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)
Pofrigorant	Туре		R410A
remyeldili	Refrigerant Charge		4, 14
Pining	Gas Pipe Size O.D. (Flared)	In.(mm)	5/8 (12.88)
Piping	Liquid Pipe Size O.D. (Flared)	In.(mm)	3/8 (9.52)

#### Notes:

Nominal Conditions	<sup>1</sup> Cooling (Indoor // Outdoor)	°F	80 DB, 67 WB // 95 DB, 75 WB
Norminal Conditions	<sup>2</sup> Heating at 47°F (Indoor // Outdoor)	°F	70 DB, 60 WB // 47 DB, 43 WB

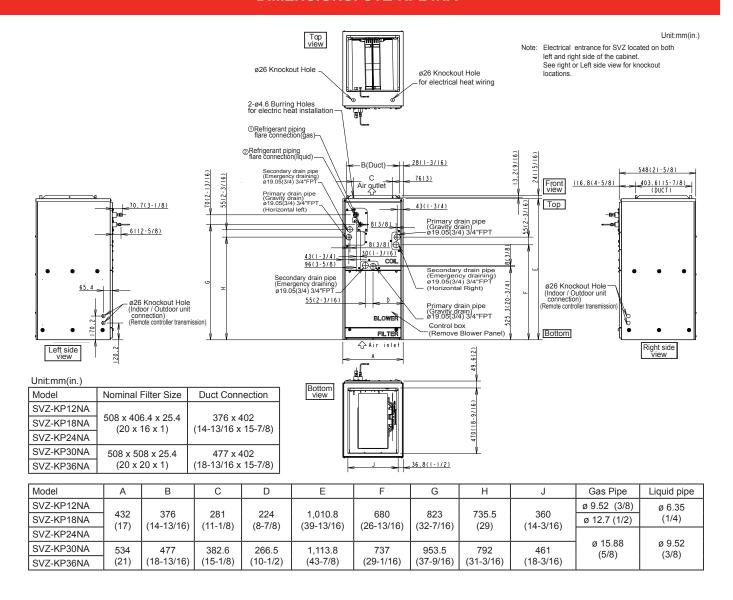
<sup>3</sup>Capacity varies based on the number of indoor units operating and the model of the Multi-zone Outdoor Unit. For reference to connected capacity charts, please refer Multi-zone Outdoor Unit Operational Performance.

## **ACCESSORIES: SVZ-KP24NA**

Wiredess Remotes Controller         □ PAR-FL32MA-E           Kurno Louch** Redul INK** Wireless Controller         □ MH/82           Debuse MA Remote Controller         □ PAR-40MAU           Simple MA Controller         □ PAR-CYT53GRAU J           Touch MA Controller         □ PAR-CYT01MAU-SB           Alzone ZBS Wired Blueface Principal Controller White         □ AZZBSTHINKCB           Alzone ZBS Wired Think Controller White         □ AZZBSTHINKCB           Alzone ZBS Wired Strink Controller White         □ AZZBSTHINKCB           Alzone ZBS Wired Strink Controller White         □ AZZBSTHINKCB           Alzone ZBS Wired Strink Controller White         □ AZZBSTHINKCB           Alzone ZBS Wiredess Time Controller White         □ AZZBSTHINKCB           Alzone ZBS Wiredess Temperature and Humidity Sensor         □ PAC-USWINS003-TH-1           Wiredess Temperature and Humidity Sensor         □ PAC-USWINS003-TH-1           Wiredess Temperature Sen		
kum to touch ** RedLINK** Wireless Controller         a MHK2           Deluxe MA Remote Controller         a PAA-40MAAU           Simple MA Controller         a PAA-CTTSSCRAUJ           Simple MA Controller         a PACCTTSSCRAUJ           Alzone ZBS Wired Blueface Principal Controller White         a AZZBSEITHACEB           Alzone ZBS Wired Blueface Principal Controller White         a AZZBSTHINKCB           Alzone ZBS Wired Life Controller White         a AZZBSTHINKCB           Alzone ZBS Wired Life Controller White         a AZZBSLITECB           Wireless Emperature and Humidity Sensor         p PG_SE41TS-E           Wireless Emperature and Humidity Sensor         p PG_USSENIOT-FILE           Wireless Interface 2         a PAC_USSENIOT-FILE           Wireless Interface 2         a PAC_USSENIOT-FILE           Wireless Interface 2         a PAC_USSENIOT-FILE           Usual Alzone ZBS Wireless Life Controller White         a PAC_USSENIOT-FILE           Wireless Interface 2	Wireless Signal Receiver	□ PAR-FA32MA-W
DeLixe MA Remote Controller         □ PAR-40MAAU           Simple MA Controller         □ PAR-CYTSGRAU-J           Touch MA Controller         □ PAR-CYTSGRAU-J           Touch MA Controller         □ PAR-CYTSGRAU-J           Atzone ZBS Wired Blueface Principal Controller White         □ AZZBSTHINKCB           Atzone ZBS Wired Think Controller White         □ AZZBSTHINKCB           Atzone ZBS Wired Lite Controller White         □ AZZBSTHINKCB           Atzone ZBS Wired Lite Controller White         □ AZZBSTHINKCB           Atzone ZBS Wired Sa Lite Controller White         □ AZZBSTHINKCB           Wirelass Emperature and Humidity Sensor         □ PAC-SE41TS-E           Wirelass Emperature and Humidity Sensor         □ PAC-USWHS0002-HT-I           Flush Mount Remote Temperature Sensor         □ PAC-USWHS0002-HT-I           Wirelass Interface 2         □ PAC-USWHS0002-HT-I           Thermostal Interface         □ PAC-USWHS002-WT-2           Thermostal Interface         □ PAC-WHS01HC-E           USNAP Interface         □ PAC-WHS01HC-E           USNAP Interface         □ PAC-WHS01HC-E           BACnell <sup>®</sup> and MODBUS <sup>®</sup> Interface         □ PAC-WHS01HC-N-1           External Fan I Heater Control Relay Adapter         □ PAC-WHS01HC-N-1           Connector cable for remote display         □ PAC-SABBHA-EP	Wireless Remote Controller	□ PAR-FL32MA-E
Simple MA Controller         □ PAC-YTSGCRAUJ           Touch MA Controller         □ PAC-GTMAULSB           Arzone ZBS Wired Blueface Principal Controller White         □ AZZBSHLUEFACECB           Arzone ZBS Wired Thirk Controller White         □ AZZBSTHINKCB           Arzone ZBS Wired Thirk Controller White         □ AZZBSTHINKCB           Arzone ZBS Wireds Thirk Controller White         □ AZZBSTHIRKB           Arzone ZBS Wireds Like Controller White         □ AZZBSTHERB           Arzone ZBS Wireds Like Controller White         □ PAC-USSH SWB           Wired Remote Sensor         □ PAC-USSH-SWB           Wired Remote Sensor         □ PAC-USSH-SWB-SWB-TH-1           Flush Mount Remote Temperature Sensor         □ PAC-USSH-SWB-SWB-TH-1           Wireless Interface 2         □ PAC-USSH-SWB-SWB-TH-1           Wireless Interface B         □ PAC-USSH-SWB-SWB-TH-1           USNAP Interface         □ PAC-USSH-SWB-WB-L           USNAP Interface         □ PAC-WHS01HC-E           US	kumo touch™ RedLINK™ Wireless Controller	□ MHK2
Touch MA Controller         □ PAR-CTOTIMAU-SB           Arzone ZBS Wired Blueface Principal Controller White         □ AZZBSHLUEFACECB           Arzone ZBS Wired Think Controller White         □ AZZBSTHINKCB           Arzone ZBS Wired Think Controller White         □ AZZBSTHINKCB           Arzone ZBS Wired Life Controller White         □ AZZBSTHINKCB           Arzone ZBS Wired Life Controller White         □ AZZBSTHECB           Arzone ZBS Wired Life Controller White         □ PAC-USENDOTH           Wiredess Interface 2         □ PAC-USENDOTH-BH           Wiredess Interface 2         □ PAC-USENDOTH-BH           Wumo station®         □ PAC-WHS0HCE           WILL SAMP Interface         □ PAC-WHS0HCE           IT Extender         □ PAC-WHS0HCE           I	Deluxe MA Remote Controller	□ PAR-40MAAU
Airzone ZBS Wired Blueface Principal Controller White         □ AZZBSLUEFACECB           Airzone ZBS Wired Think Controller White         □ AZZBSLITHINKCB           Airzone ZBS Wired Life Controller White         □ AZZBSLITECB           Airzone ZBS Wired Life Controller White         □ AZZBSLITECB           Airzone ZBS Wired Life Controller White         □ AZZBSLITECB           Wireless Temperature and Humidity Sensor         □ PAC-SE41TS-E           Wireless Temperature and Humidity Sensor         □ PAC-USWHS003-TH-1           Flush Mount Remote Temperature Sensor         □ PAC-USWHS001-FM-1           Wireless Interface 2         □ PAC-USWHS001-FM-1           Wireless Interface         □ PAC-USWHS001-FM-1           kumo station <sup>©</sup> □ PAC-USWHS010-FM-1           kumo station <sup>©</sup> □ PAC-USWHS010-FM-2           USNAP Interface         □ PAC-USWHS011-E           USNAP Interface         □ PAC-USWHS011-E           BACcnef® and MODBUS® Interface         □ PAC-USWHS011-E           BACcnef® and MODBUS® Interface         □ PAC-USWHS011-E           Connector cable for remote display         □ PAC-USWHS011-E           Connector cable for remote display         □ PAC-SABHA-EP           Remote Operation Adapter¹         □ PAC-SABHA-EP           MegaBlue Advanced Blue Diamond Mini Condensate Pump wir Reservoir & Sensor (1107) up to 48,0	Simple MA Controller	□ PAC-YT53CRAU-J
Airzone ZBS Wired Think Controller White         □ AZZBSTHINKCB           Airzone ZBS Wireless Think Controller White         □ AZZBSTHINKRB           Airzone ZBS Wireless Think Controller White         □ AZZBSTHINKRB           Airzone ZBS Wireless Lite Controller White         □ AZZBSTHINKBB           Airzone ZBS Wireless Lite Controller White         □ PAC-USWHS002-WE           Wireless Temperature and Humidity Sensor         □ PAC-USWHS002-TH-1           Wireless Temperature Sensor         □ PAC-USWHS002-TH-1           Wireless Interface 2         □ PAC-USWHS002-WF-2           Thermostal Interface         □ PAC-USWHS002-WF-2           The Wireless Interface Baches         □ PAC-WHS01ILE-E           USNAP Interface         □ PAC-WHS01ILE-E           BEACHES Interface         □ PAC-WHS01ILE-E           BACHES Interface         □ PAC-WHS01ILE-E           BACH	Touch MA Controller	□ PAR-CT01MAU-SB
Airzone ZBS Wireless Think Controller White         n AZZBSTHINKRB           Airzone ZBS Wired Lite Controller White         n AZZBSLITECB           Airzone ZBS Wired Lite Controller White         n AZZBSLITERB           Wired Remote Sensor         n PAC-SE41TS-E           Wired Remote Sensor         n PAC-USSEN001-FM-I           Wired Remote Temperature and Humidity Sensor         n PAC-USSEN001-FM-I           Flush Mount Remote Temperature Sensor         n PAC-USSEN001-FM-I           Wireless Interface 2         n PAC-USSEN001-FM-I           Thermostat Interface 1         n PAC-USSEN001-FM-I           USNAP Interface         n PAC-WHS01HC-E	Airzone ZBS Wired Blueface Principal Controller White	□ AZZBSBLUEFACECB
Airzone ZBS Wired Lite Controller White         a AZZBSLITECB           Airzone ZBS Wireless Lite Controller White         a AZZBSLITERB           Wirel Remote Sensor         a PAC-SE41TS-E           Wireless Temperature and Humidity Sensor         a PAC-USWH\$003-TH-1           Flush Mount Remote Temperature Sensor         a PAC-USWH\$003-TH-1           Wireless Interface 2         a PAC-USWH\$002-WF-2           Themostat Interface         a PAC-USWH\$002-WF-2           List Interface         a PAC-WH\$01HC-E           USNAP Interface <td< td=""><td>Airzone ZBS Wired Think Controller White</td><td>□ AZZBSTHINKCB</td></td<>	Airzone ZBS Wired Think Controller White	□ AZZBSTHINKCB
Arzone ZBS Wireless Lile Controller White  Wireless Temperature and Humidity Sensor  PAC-USWHS003-TH-1 Flush Mount Remote Temperature Sensor  PAC-USWHS002-WF-2 Thermostal Interface 2  PAC-USWHS001-WF-2  IT Extender  PAC-WHS011-E-E  BACneff* and MODBUS® Interface  PAC-WHS011-E-E  BAC-WHS011-E-E  BACneff* and ModBus® Interface  PAC-WHS011-E-E  BAC-WHS011-E-E  BAC-WHS011-E  BAC-WHS	Airzone ZBS Wireless Think Controller White	□ AZZBSTHINKRB
Wired Remote Sensor         □ PAC-SE41TS-E           Wiredess Temperature and Humidity Sensor         □ PAC-USWHS003-TH-1           Flush Mount Remote Temperature Sensor         □ PAC-USWHS002-WF-2           Wiredess Interface 2         □ PAC-USWHS002-WF-2           Thermostat Interface         □ PAC-USWHS001-FM-1           Kumo station®         □ PAC-WHS01HC-E           USNAP Interface         □ PAC-WHS01UP-E           USNAP Interface         □ PAC-WHS01UP-E           External Fan / Heater Control Relay Adapter         □ PAC-WHS01UP-E           External Fan / Heater Control Relay Adapter         □ CN24RELAY-KIT-CM3           Connector cable for remote display         □ PAC-S88HA-EP           Remote Operation Adapter¹         □ PAC-S84BHA-EP           MegaBlue Advanced Blue Diamond Mini Condensate Pump wi Reservoir & Sensor (110V) up to 48,000 BTU/H[recommended]         □ X87-711 - 110V           Advanced Blue Diamond Mini Condensate Pump wi Reservoir & Sensor (208/230V) [recommended]         □ X87-721 - 209/230V           Advanced Blue Diamond Mini Condensate Pump wi Reservoir & Sensor (208/230V) [recommended]         □ X87-721 - 209/230V           Advanced Blue Diamond Mini Condensate Pump wi Reservoir & Sensor (208/230V) [recommended]         □ X87-721 - 209/230V           Advanced Blue Diamond Mini Condensate Pump wi Reservoir & Sensor (208/230V) [recommended]         □ X87-83303           Advanced Bl	Airzone ZBS Wired Lite Controller White	□ AZZBSLITECB
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-USWHS002-WF-2           Thermostat Interface         □ PAC-USWHS001-FM-1           USNAP Interface         □ PAC-WHS01HC-E           USNAP Interface         □ PAC-WHS01HE-E           BACne® and MODBUS® Interface         □ PAC-WHS01E-E           BACne® and MODBUS® Interface         □ PAC-UKPRC001-CN-1           External Fan / Heater Control Relay Adapter         □ CN24RELAY-KIT-CM3           Connector cable for remote display         □ PAC-SH40RM-E           Remote Operation Adapter¹         □ PAC-SF40RM-E           Measablue Advanced Blue Diamond Condensate Pump w/ Reservoir & Sensor (110V) up to 48,000 BTU/H[recommended]         □ X87-783 - 110 to 250V           Maxiblue Advanced Blue Diamond Mini Condensate Pump w/ Reservoir & Sensor (208/230V) [recommended]         □ X87-711 - 100/230V           (30A/600V/UL) [fits 2" X-4" utility box] - Black         □ TAZ-MS303W           (30A/600V/UL) [fits 2" X-4" utility box] - White         □ TAZ-MS303W           Separate Power Terminal Block Kit         □ SPTB1           Eletcic Heat Lockout Control         □ ETC-211000-MIT           Downflow Kit         □ DFK-S <td>Airzone ZBS Wireless Lite Controller White</td> <td>□ AZZBSLITERB</td>	Airzone ZBS Wireless Lite Controller White	□ AZZBSLITERB
PAC-USSEN001-FM-1	Wired Remote Sensor	□ PAC-SE41TS-E
Wireless Interface 2         p PAC-USWHS002-WF-2           Thermostat Interface         p PAC-US444CN-1           kumo station®         p PAC-WHS01HC-E           USNAP Interface         p PAC-WHS01UP-E           IT Extender         p PAC-WHS01IE-E           BACner® and MODBUS® Interface         p PAC-UKPRC001-CN-1           External Fan / Heater Control Relay Adapter         p PAC-UKPRC001-CN-1           Connector cable for remote display         p PAC-SA8BHA-EP           Remote Operation Adapter¹         p PAC-SA8BHA-EP           MegaBlue Advanced Blue Diamond Condensate Pump w/ Reservoir & Sensor         p X87-X91 - 110 to 250V           MaxiBlue Advanced Blue Diamond Mini Condensate Pump w/ Reservoir & Sensor (208/230V) [recommended]         p X87-721 - 208/230V           Advanced Blue Diamond Mini Condensate Pump w/ Reservoir & Sensor (208/230V) [recommended]         p X87-721 - 208/230V           (30A/600V/UL) [fits 2" X 4" utility box) - Black         p TAZ-MS303           (30A/600V/UL) [fits 2" X 4" utility box) - White         p TAZ-MS303W           Separate Power Terminal Block Kit         p SPTB1           Electric Heat Lockout Control         p EK-S           3W Electric Heater         p EH03-SVZ-S           5W Electric Heater         p EH05-SVZ-S	Wireless Temperature and Humidity Sensor	□ PAC-USWHS003-TH-1
Thermostat Interface	Flush Mount Remote Temperature Sensor	□ PAC-USSEN001-FM-1
kumo station®	Wireless Interface 2	□ PAC-USWHS002-WF-2
USNAP Interface   PAC-WHS01UP-E   IT Extender   PAC-WHS01IE-E   BACnet® and MODBUS® Interface   PAC-UKPRC001-CN-1   External Fan / Heater Control Relay Adapter   PAC-SA88HA-EP   Remote Operation Adapter   PAC-SA88HA-EP   Remote Operation Adapter   PAC-SA88HA-EP   Remote Operation Adapter   PAC-SA80HA-EP   Remote Operation Adapter   PAC-SF40RM-E   Remote Operation	Thermostat Interface	□ PAC-US444CN-1
IT Extender  BACnet® and MODBUS® Interface  BACnet® and MODBUS® Interface  CN24RELAY-KIT-CM3  Connector cable for remote display  Remote Operation Adapter¹  MegaBlue Advanced Blue Diamond Condensate Pump w/ Reservoir & Sensor  MaxiBlue Advanced Blue Diamond Mini Condensate Pump w/ Reservoir & Sensor (110V) up to 48,000 BTU/H[recommended]  Advanced Blue Diamond Mini Condensate Pump w/ Reservoir & Sensor (208/230V) [recommended]  Advanced Blue Diamond Mini Condensate Pump w/ Reservoir & Sensor (208/230V) [recommended]  Advanced Blue Diamond Mini Condensate Pump w/ Reservoir & Sensor (208/230V) [recommended]  BAZ-MS303  BAZ-MS303  BAZ-MS303  BAZ-MS303W  BElectric Heat Lockout Control  CETC-211000-MIT  DOwnflow Kit  CETC-211000-MIT  CETC-211000-MIT	kumo station®	□ PAC-WHS01HC-E
External Fan / Heater Control Relay Adapter   Connector cable for remote display   Remote Operation Adapter   Remote Operation Ad	USNAP Interface	□ PAC-WHS01UP-E
External Fan / Heater Control Relay Adapter  Connector cable for remote display  Remote Operation Adapter¹  RegaBlue Advanced Blue Diamond Condensate Pump w/ Reservoir & Sensor  MaxiBlue Advanced Blue Diamond Mini Condensate Pump w/ Reservoir & Sensor (110V) up to 48,000 BTU/H[recommended]  Advanced Blue Diamond Mini Condensate Pump w/ Reservoir & Sensor (208/230V) [recommended]  Advanced Blue Diamond Mini Condensate Pump w/ Reservoir & Sensor (208/230V) [recommended]  Advanced Blue Diamond Mini Condensate Pump w/ Reservoir & Sensor (208/230V) [recommended]  Advanced Blue Diamond Mini Condensate Pump w/ Reservoir & Sensor (208/230V) [recommended]  Advanced Blue Diamond Mini Condensate Pump w/ Reservoir & Sensor (208/230V) [recommended]  Advanced Blue Diamond Mini Condensate Pump w/ Reservoir & Sensor (208/230V) [recommended]  Advanced Blue Diamond Mini Condensate Pump w/ Reservoir & Sensor (208/230V) [recommended]  Advanced Blue Diamond Mini Condensate Pump w/ Reservoir & Sensor (208/230V) [recommended]  Avanced Blue Diamond Mini Condensate Pump w/ Reservoir & Sensor (208/230V) [recommended]  Avanced Blue Diamond Mini Condensate Pump w/ Reservoir & Sensor (208/230V) [recommended]  Avanced Blue Diamond Mini Condensate Pump w/ Reservoir & Sensor (208/230V) [recommended]  Avanced Blue Diamond Mini Condensate Pump w/ Reservoir & Sensor (208/230V) [recommended]  Avanced Blue Diamond Mini Condensate Pump w/ Reservoir & Sensor (208/230V) [recommended]  Avanced Blue Diamond Mini Condensate Pump w/ Reservoir & Sensor (208/230V) [recommended]  Avanced Blue Diamond Mini Condensate Pump w/ Reservoir & Sensor (208/230V) [recommended]  Avanced Blue Diamond Mini Condensate Pump w/ Reservoir & Sensor (208/230V) [recommended]  Avanced Blue Diamond Mini Condensate Pump w/ Reservoir & Sensor (208/230V) [recommended]  Avanced Blue Diamond Mini Condensate Pump w/ Reservoir & Sensor (208/230V) [recommended]  Avanced Blue Diamond Mini Condensate Pump w/ Reservoir & Sensor (208/230V) [recommended]  Avanced Blue Diamond Mini Condensate	IT Extender	□ PAC-WHS01IE-E
Connector cable for remote display  Remote Operation Adapter¹  Remote Operation Adapter¹  MegaBlue Advanced Blue Diamond Condensate Pump w/ Reservoir & Sensor  MaxiBlue Advanced Blue Diamond Mini Condensate Pump w/ Reservoir & Sensor (110V) up to 48,000 BTU/H[recommended]  Advanced Blue Diamond Mini Condensate Pump w/ Reservoir & Sensor (208/230V) [recommended]  Advanced Blue Diamond Mini Condensate Pump w/ Reservoir & Sensor (208/230V) [recommended]  Advanced Blue Diamond Mini Condensate Pump w/ Reservoir & Sensor (208/230V) [recommended]  Advanced Blue Diamond Mini Condensate Pump w/ Reservoir & Sensor (208/230V) [recommended]  Advanced Blue Diamond Mini Condensate Pump w/ Reservoir & Sensor (208/230V) [recommended]  Advanced Blue Diamond Mini Condensate Pump w/ Reservoir & Sensor (208/230V) [recommended]  Advanced Blue Diamond Mini Condensate Pump w/ Reservoir & Sensor (208/230V) [recommended]  Advanced Blue Diamond Mini Condensate Pump w/ Reservoir & Sensor (208/230V) [recommended]  Advanced Blue Diamond Mini Condensate Pump w/ Reservoir & Sensor (208/230V) [recommended]  Advanced Blue Diamond Mini Condensate Pump w/ Reservoir & Sensor (110V) up to 48,000 BTU/H[recommended]  AX87-711 - 110V  Advanced Blue Diamond Mini Condensate Pump w/ Reservoir & Sensor (110V) up to 48,000 BTU/H[recommended]  AX87-721 - 208/230V  AX87-721 - 208/230V  AX87-721 - 208/230V  AX87-721 - 208/230V  AX8-721 - 208/230V  AX87-721 - 20	BACnet® and MODBUS® Interface	□ PAC-UKPRC001-CN-1
Remote Operation Adapter¹  MegaBlue Advanced Blue Diamond Condensate Pump w/ Reservoir & Sensor  MaxiBlue Advanced Blue Diamond Mini Condensate Pump w/ Reservoir & Sensor (110V) up to 48,000 BTU/H[recommended]  Advanced Blue Diamond Mini Condensate Pump w/ Reservoir & Sensor (208/230V) [recommended]  Advanced Blue Diamond Mini Condensate Pump w/ Reservoir & Sensor (208/230V) [recommended]  Advanced Blue Diamond Mini Condensate Pump w/ Reservoir & Sensor (208/230V) [recommended]  Advanced Blue Diamond Mini Condensate Pump w/ Reservoir & Sensor (208/230V) [recommended]  Advanced Blue Diamond Mini Condensate Pump w/ Reservoir & Sensor (208/230V) [recommended]  Advanced Blue Diamond Mini Condensate Pump w/ Reservoir & Sensor (208/230V) [recommended]  Advanced Blue Diamond Mini Condensate Pump w/ Reservoir & Sensor (208/230V) [recommended]  Advanced Blue Diamond Mini Condensate Pump w/ Reservoir & Sensor (208/230V) [recommended]  Advanced Blue Diamond Mini Condensate Pump w/ Reservoir & Sensor (100V) up to 48,000 BTU/H[recommended]  AX87-711 - 110V  Advanced Blue Diamond Mini Condensate Pump w/ Reservoir & Sensor (208/230V) [recommended]  AX87-721 - 208/230V  TAZ-MS303  TAZ-MS303W  Separate Power Terminal Block Kit  SPTB1  Electric Heat Lockout Control  Downflow Kit  Downflow Kit  Downflow Kit  BH03-SVZ-S  SKW Electric Heater  BH03-SVZ-S  EH05-SVZ-S	External Fan / Heater Control Relay Adapter	□ CN24RELAY-KIT-CM3
MegaBlue Advanced Blue Diamond Condensate Pump w/ Reservoir & Sensor  MaxiBlue Advanced Blue Diamond Mini Condensate Pump w/ Reservoir & Sensor (110V) up to 48,000 BTU/H[recommended]  Advanced Blue Diamond Mini Condensate Pump w/ Reservoir & Sensor (208/230V) [recommended]  Advanced Blue Diamond Mini Condensate Pump w/ Reservoir & Sensor (208/230V) [recommended]  Advanced Blue Diamond Mini Condensate Pump w/ Reservoir & Sensor (208/230V) [recommended]  Advanced Blue Diamond Mini Condensate Pump w/ Reservoir & Sensor (208/230V) [recommended]  Advanced Blue Diamond Mini Condensate Pump w/ Reservoir & Sensor (208/230V) [recommended]  Advanced Blue Diamond Mini Condensate Pump w/ Reservoir & Sensor (208/230V) [recommended]  Advanced Blue Diamond Mini Condensate Pump w/ Reservoir & Sensor (208/230V) [recommended]  Advanced Blue Diamond Mini Condensate Pump w/ Reservoir & Sensor (208/230V) [recommended]  Advanced Blue Diamond Mini Condensate Pump w/ Reservoir & Sensor (208/230V) [recommended]  Advanced Blue Diamond Mini Condensate Pump w/ Reservoir & Sensor (208/230V) [recommended]  Advanced Blue Diamond Mini Condensate Pump w/ Reservoir & Sensor (208/230V) [recommended]  Advanced Blue Diamond Mini Condensate Pump w/ Reservoir & Sensor (208/230V) [recommended]  Advanced Blue Diamond Mini Condensate Pump w/ Reservoir & Sensor (208/230V) [recommended]  Advanced Blue Diamond Mini Condensate Pump w/ Reservoir & Sensor (208/230V) [recommended]  Advanced Blue Diamond Mini Condensate Pump w/ Reservoir & Sensor (208/230V) [recommended]  Advanced Blue Diamond Mini Condensate Pump w/ Reservoir & Sensor (208/230V) [recommended]  Advanced Blue Diamond Mini Condensate Pump w/ Reservoir & Sensor (208/230V) [recommended]  Advanced Blue Diamond Mini Condensate Pump w/ Reservoir & Sensor (208/230V) [recommended]  Advanced Blue Diamond Mini Condensate Pump w/ Reservoir & Sensor (208/230V) [recommended]  Advanced Blue Diamond Mini Condensate Pump w/ Reservoir & Sensor (208/230V) [recommended]  Advanced Blue Diamond Mini Condensate Pump	Connector cable for remote display	□ PAC-SA88HA-EP
MaxiBlue Advanced Blue Diamond Mini Condensate Pump w/ Reservoir & Sensor (110V) up to 48,000 BTU/H[recommended]	Remote Operation Adapter <sup>1</sup>	□ PAC-SF40RM-E
Advanced Blue Diamond Mini Condensate Pump w/ Reservoir & Sensor (208/230V) [recommended]  (30A/600V/UL) [fits 2" X 4" utility box] - Black  (30A/600V/UL) [fits 2" X 4" utility box] - White  Separate Power Terminal Block Kit  Electric Heat Lockout Control  Downflow Kit  3kW Electric Heater  SkW Electric Heater  CEH05-SVZ-S  EH05-SVZ-S	MegaBlue Advanced Blue Diamond Condensate Pump w/ Reservoir & Sensor	□ X87-835 - 110 to 250V
(30A/600V/UL) [fits 2" X 4" utility box] - Black (30A/600V/UL) [fits 2" X 4" utility box] - White  Separate Power Terminal Block Kit  Electric Heat Lockout Control  Downflow Kit  3kW Electric Heater  5kW Electric Heater	MaxiBlue Advanced Blue Diamond Mini Condensate Pump w/ Reservoir & Sensor (110V) up to 48,000 BTU/H[recommended]	□ X87-711 - 110V
(30A/600V/UL) [fits 2" X 4" utility box] - White   Separate Power Terminal Block Kit   Electric Heat Lockout Control   Downflow Kit   3kW Electric Heater  SkW Electric Heater  SkW Electric Heater	Advanced Blue Diamond Mini Condensate Pump w/ Reservoir & Sensor (208/230V) [recommended]	□ X87-721 - 208/230V
Separate Power Terminal Block Kit  Electric Heat Lockout Control  Downflow Kit  3kW Electric Heater  5kW Electric Heater  EH05-SVZ-S	(30A/600V/UL) [fits 2" X 4" utility box] - Black	□ TAZ-MS303
Electric Heat Lockout Control  Downflow Kit  3kW Electric Heater  5kW Electric Heater  EH05-SVZ-S	(30A/600V/UL) [fits 2" X 4" utility box] - White	□ TAZ-MS303W
Downflow Kit DFK-S 3kW Electric Heater EH03-SVZ-S 5kW Electric Heater EH05-SVZ-S	Separate Power Terminal Block Kit	□ SPTB1
3kW Electric Heater   5kW Electric Heater   EH03-SVZ-S  EH05-SVZ-S	Electric Heat Lockout Control	□ ETC-211000-MIT
5kW Electric Heater   EH05-SVZ-S	Downflow Kit	□ DFK-S
	3kW Electric Heater	□ EH03-SVZ-S
8kW Electric Heater	5kW Electric Heater	□ EH05-SVZ-S
	8kW Electric Heater	□ EH08-SVZ-S

<sup>&</sup>lt;sup>1</sup> Unable to use with wireless remote controller

#### **DIMENSIONS: SVZ-KP24NA**



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





## **M-SERIES**

# SUBMITTAL DATA: PEAD-A24AA7 & SUZ-KA24NA2 24,000 BTU/H HORIZONTAL-DUCTED HEAT PUMP SYSTEM



Job Name:	
System Reference:	Date:



#### **INDOOR UNIT FEATURES**

- Unobtrusive ceiling-concealed design for short-run ductwork.
- Wide ranging external static pressure (0.14-0.60 in. WG)
- Built-in condensate lift mechanism (up to 27-9/16")
- Auto fan speed mode
- · Optional FB Series filter boxes for easy access and service
- · Ideal for residential homes, retail shopping centers, larger classrooms, office complexes, conference ballrooms, fitness centers, and more

#### **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: PEAD-A24AA7 & SUZ-KA24NA2

	Maximum Capacity	Btu/h	24,000
	Rated Capacity	Btu/h	24,000
	Minimum Capacity	Btu/h	12,000
	Maximum Power Input	W	1,920
Cooling at 95°F1	Rated Power Input	W	1,920
	Moisture Removal	Pints/h	4.9
	Sensible Heat Factor	0.77	
	Power Factor (208/230V)	%	97.9
	Maximum Capacity	Btu/h	26,600
	Rated Capacity	Btu/h	26,600
Cooling at 82°F	Minimum Capacity	Btu/h	13,300
	Maximum Power Input	W	1,670
	Rated Power Input	W	1,670
	Maximum Capacity	Btu/h	28,000
	Rated Capacity	Btu/h	25,000
11	Minimum Capacity	Btu/h	14,400
Heating at 47°F <sup>2</sup>	Maximum Power Input	W	2,540
	Rated Power Input	W	1,990
	Power Factor	%	98.8
	Maximum Capacity	Btu/h	15,000
Heating at 17°F <sup>3</sup>	Rated Capacity	Btu/h	15,000
nealing at 17 F	Maximum Power Input	W	1,650
	Rated Power Input	W	1,650
	SEER	18.0	
	EER1		12.5
	HSPF (IV)		11.2
Efficiency	COP at 47°F <sup>2</sup>		3.68
	COP at 17°F in Maximum Capacity <sup>3</sup>	2.66	
	ENERGY STAR® Certified (ENERGY STAR products at an EPA-recognized Certification Body.)	Yes	
	Voltage, Phase, Frequency	208/230V, 1 phase, 60Hz	
	Guaranteed Voltage Range	V AC	187-253
	Voltage: Indoor - Outdoor, S1-S2	V AC	208/230
Electrical	Voltage: Indoor - Outdoor, S2-S3	V DC	24
	Voltage: Indoor - Remote Controller	V DC	12
	Recommended Fuse/Breaker Size	A	20
	Recommended Wire Size (Indoor - Outdoor)	AWG	14
	MCA	A	2.63
la da sa Hair	Fan Motor Full Load Amperage	A	2.1
Indoor Unit	Fan Motor Output	W	121
	Airflow Rate at Cooling, Dry	CFM	742-636-512

## SPECIFICATIONS: PEAD-A24AA7 & SUZ-KA24NA2

	Airflow Rate at Cooling, Wet	CFM	667-572-461
	Sound Pressure Level (Cooling)	dB(A)	37-33-30
	Sound Pressure Level (Heating)	dB(A)	37-33-30
	External Static Pressure	in.WG	0.14-0.20-0.28-0.40-0.60
	Drain Pipe Size	In. (mm)	1-1/4 (32)
	Condensate Lift Mechanism, Maximum Distance	In. (mm)	27-9/16 (700)
	Heat Exchanger Type	, ,	Plate fin coil
	External Finish Color		Galvanized
	W: In. (mm)		43-5/16 (1,100)
	Unit Dimensions	D: In. (mm)	28-7/8 (732)
		H: In. (mm)	9-7/8 (250)
		W: In. (mm)	53-3/16 (1,350)
	Package Dimensions	D: In. (mm)	34-11/16 (880)
		H: In. (mm)	13-7/16 (380)
	Unit Weight	Lbs. (kg)	69 (31)
	Package Weight	Lbs. (kg)	82 (37)
Indoor Unit Operating	Cooling Intake Air Temp (Maximum / Minimum)*	°F	90F D.B / 71F W.B // 67F D.B / 57F W.B
Temperature Range	Heating Intake Air Temp (Maximum / Minimum)	°F	80F D.B // 70F D.B
	MCA	A	17
	MOCP	A	31
	Fan Motor Full Load Amperage	A	1
	Fan Motor Output	W	60
	Airflow Rate	CFM	2,020 / 1,930
	Refrigerant Control		LEV
	Defrost Method	Reverse cycle	
	Heat Exchanger Type		Plate fin coil
	Sound Pressure Level, Cooling <sup>1</sup>	dB(A)	55
	Sound Pressure Level, Heating <sup>2</sup>	dB(A)	55
	Compressor Type		DC INVERTER-driven
Outdoor Unit	Compressor Model	SNB220FQGM1T	
	Compressor Rated Load Amps	А	13.0
	Compressor Locked Rotor Amps	A	16.0
	Compressor Oil Type // Charge	OZ.	FV50S // 15.6
	External Finish Color		
	Base Pan Heater		Optional
		W: In. (mm)	33-1/16 (840)
	Unit Dimensions	D: In. (mm)	13 (330)
		H: In. (mm)	34-5/8 (880)
		W: In. (mm)	38-9/16 (980)
	Package Dimensions	D: In. (mm)	16-9/16 (420)
		H: In. (mm)	39 (990)

## SPECIFICATIONS: PEAD-A24AA7 & SUZ-KA24NA2

	Unit Weight	Lbs. (kg)	129 (59)
	Package Weight	Lbs. (kg)	148 (67)
	Cooling Air Temp (Maximum / Minimum)*	°F	115 / 14
Outdoor Unit Operating	Cooling Thermal Lock-out / Re-start Temperatures**	°F	1/5
Temperature Range	Heating Air Temp (Maximum / Minimum)	°F	75 / 14
	Heating Thermal Lock-out / Re-start Temperatures**	°F	10 / 14
Pofrigorant	Туре	R410A	
Refrigerant	Charge	Lbs, oz	4, 14
	Gas Pipe Size O.D. (Flared)	In.(mm)	5/8 (12.88)
	Liquid Pipe Size O.D. (Flared)	In.(mm)	3/8 (9.52)
Piping	Maximum Piping Length	Ft. (m)	100
	Maximum Height Difference	Ft. (m)	100
	Maximum Number of Bends		10

#### Notes

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

<sup>\*</sup>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: PEAD-A24AA7**

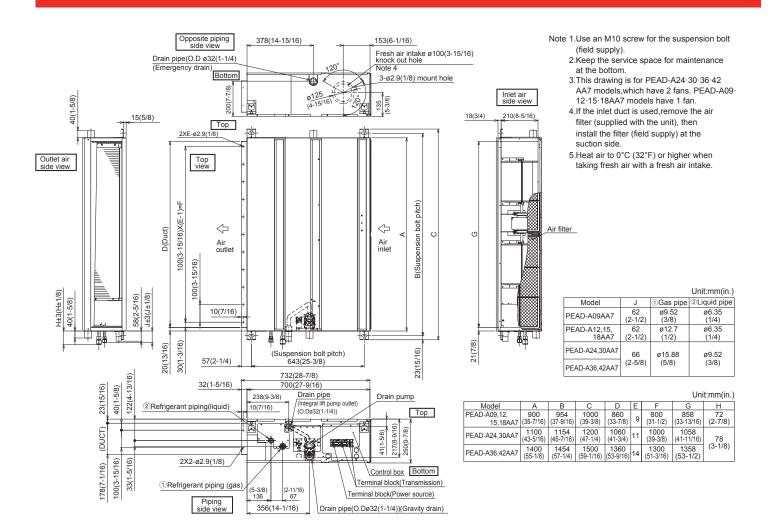
Filter Box with MERV 13 Filters	□ FBM2-3
Wireless Signal Receiver	□ PAR-SA9CA-E
Wireless Signal Receiver	□ PAR-FA32MA-W
Wireless Signal Receiver	□ PAR-FA32MA-E
Wireless Remote Controller	□ PAR-FL32MA-E
Backlit, Wall-mounted, Wireless Controller	□ MHK1
Portable Central Controller	□ MCCH1
Wired MA Controller	□ PAR-33MAA
Simple MA Controller	□ PAC-YT53CRAU
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
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
Connector cable for remote display	□ PAC-SA88HA-EP
Connector for CN32 (remote on/off)	□ PAC-SE55RA-E
Lockdown Bracket for Hand-held Remote Controllers	□ RCMKP1CB
Remote Operation Adapter <sup>1</sup>	□ PAC-SF40RM-E
Blue Diamond Sensor Extension Cable — 15 Ft.	□ C13-103
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

<sup>&</sup>lt;sup>1</sup> Unable to use with wireless remote controller

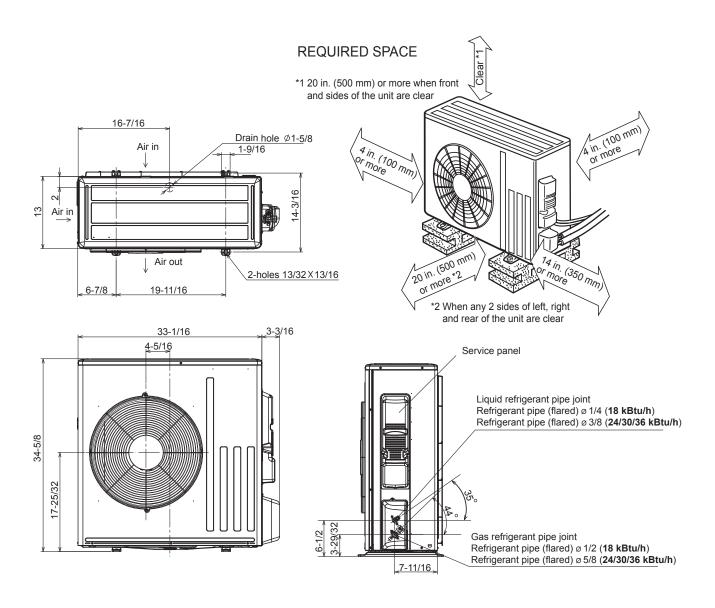
## **ACCESSORIES: SUZ-KA24NA2**

Air Outlet Guide	□ MAC-886SG-E
Optional Defrost Heater	□ MAC-642BH-U1
Hail Guard	□ HG-A7
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
10' x 3/8" x 10' x 5/8" Lineset (Twin-Tube Insulation)	□ MPLS385812T-10
15' x 3/8" x 15' x 5/8" Lineset (Twin-Tube Insulation)	□ MPLS385812T-15
30' x 3/8" x 30' x 5/8" Lineset (Twin-Tube Insulation)	□ MPLS385812T-30
50' x 3/8" x 50' x 5/8" Lineset (Twin-Tube Insulation)	□ MPLS385812T-50
65' x 3/8" x 65' x 5/8" Lineset (Twin-Tube Insulation)	□ MPLS385812T-65
100' x 3/8" x 100' x 5/8" Lineset (Twin-Tube Insulation)	□ MPLS385812T-100

### **DIMENSIONS: PEAD-A24AA7**



Unit: inch





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