

TOWN OF LEWISBORO
Westchester County, New York



Zoning Board of Appeals
79 Bouton Road
South Salem, New York 10590

Tel: (914) 763-3822
Fax: (914) 533-0097
Email: zoning@Lewisborogov.com

AGENDA

Wednesday, March 24, 2021 7:30 P.M

Via Zoom Videoconferencing

<https://zoom.us/j/96927269507> by clicking "Join a Meeting," and entering Meeting ID: 969 2726 9507.
You may call in to the Zoom meeting at 1-929-205-6099 when prompted, enter 969 2726 9507.

I. Review and adoption of the Minutes of February 2020

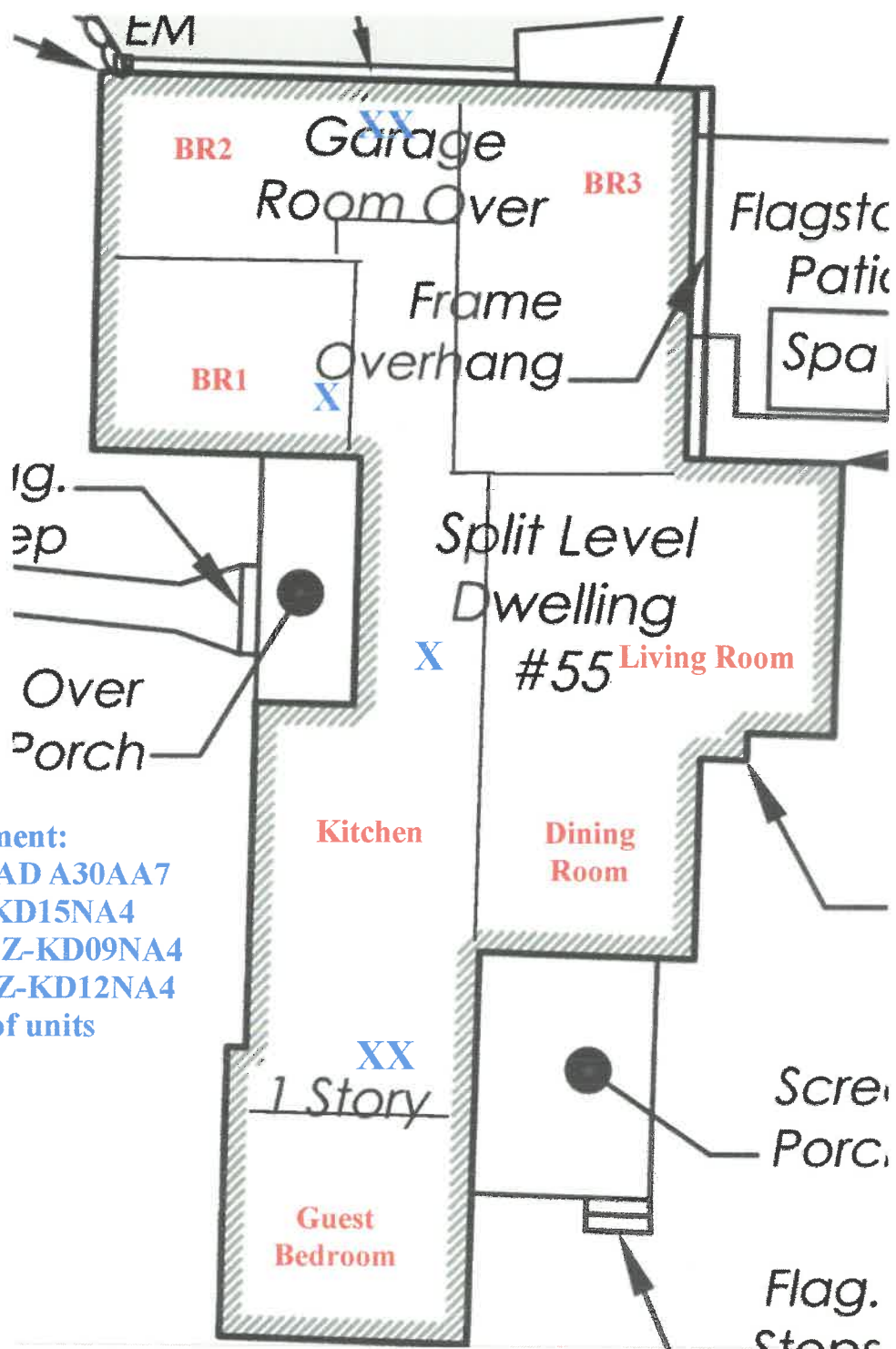
II. PUBLIC HEARINGS

CAL. NO. 06-21-BZ

Application of Tim Wulfing [Wulfing, Timothy Robert & Alesya owner of record], 55 Cross Pond Road, Pound Ridge, NY for a for variances in the matter of the proposed HVAC units on the west side will have a 22.5' side yard setback whereas 40' are required per Article IV Section 220-23E of the Town of Lewisboro Zoning Code.

The property is located on the south side of (#55) Cross Pond Road, designated on the Tax Map as Sheet 41, Block 10267, Lot 008, in an R-2AC, Two- Acre Residential District consisting of approximately 2.420 acres.

III. CORRESPONDENCE & GENERAL BUSINESS



Unit placement:

Living Room - PEAD A30AA7

Kitchen - SEZ-KD15NA4

Bedrooms (x4) - SEZ-KD09NA4

Family Room - SEZ-KD12NA4

X=Location of units

Job Name:

System Reference:

Date:

APPLIES TO INDOOR UNIT:

- ☐ SEZ-KD12NA4
- ☐ SEZ-KD12NA4.TH
- ☐ SEZ-KD12NAR1.TH
- ☐ SEZ-KD12NA4R1.TH



GENERAL FEATURES

- Concealed horizontal-ducted unit for applications with short duct runs
- Quiet operation
- Ultra-thin body: 7-7/8" high
- Built-in condensate lift mechanism
- Multiple control options available:
 - kumo cloud® smart device app for remote access
 - Third-party interface options
 - Wired or wireless controllers

SPECIFICATIONS: SEZ-KD12NA4

Cooling Capacity ^{1, 3}		Btu/h	11,500
Heating Capacity ^{2, 3}		Btu/h	13,600
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	1
Blower Motor Full Load Amperage		A	0.57
Blower Motor Output		W	96
Airflow Rate at Cooling, Dry		CFM	388-317-247
Airflow Rate at Cooling, Wet		CFM	349-285-222
Airflow Rate at Heating, Dry		CFM	388-317-247
Sound Pressure Level (Cooling)		dB(A)	33-28-23
Sound Pressure Level (Heating)		dB(A)	33-28-23
External Static Pressure		in.WG	0.02-0.06-0.14-0.20
Drain Pipe Size		In. (mm)	1 1/4 (32)
Condensate Lift Mechanism, Maximum Distance		In. (mm)	21-21/32 (550)
Heat Exchanger Type			Plate fin coil
External Finish Color			Galvanized
Unit Dimensions	W: In. (mm)		39 (990)
	D: In. (mm)		27 9/16 (700)
	H: In. (mm)		7 7/8 (200)
Package Dimensions	W: In. (mm)		47 1/4 (1,200)
	D: In. (mm)		35 7/16 (900)
	H: In. (mm)		14 3/16 (360)
Unit Weight		Lbs. (kg)	50 (22)
Package Weight		Lbs. (kg)	73 (33)
Refrigerant	Type		R410A
	Charge	Lbs, oz	2, 9

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

³Capacity 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: SEZ-KD12NA4

Filter Box with MERV 8 Filters	□ FBL 1-2
Signal Receiver	□ PAR-SA9CA-E
Wireless Remote Controller	□ PAR-FL32MA-E
Wireless Remote Receiver	□ PAR-FA32MA-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
Wired Remote Sensor	□ PAC-SE41TS-E
Lockdown Bracket for Wireless, Hand-held, Remote Controller	□ RCMKP1CB
Wireless Temperature and Humidity Sensor	□ PAC-USWHS003-TH-1
Outside Air Sensor for MHK1	□ MOS1
Flush Mount Remote Temperature Sensor	□ PAC-USSEN001-FM-1
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
Remote Operation Adapter (with wire terminals for remote ON/OFF and operation status/ error) ¹	□ PAC-SF40RM-E
Bottom Return Plate (Converts low-profile ducted indoor unit from rear return to bottom return)	□ BRP-2
External Drain Pump	□ PAC-KE07DM-E
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—230V application	□ SI30-230
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
MaxiBlue Advanced Blue Diamond Mini Condensate Pump w/ Reservoir & Sensor (208/230V) up to 48,000 Btu/h [recommended]	□ X87-721 - 208/230V
Drain Pan Level Sensor (Control for indoor unit shut off to prevent drain pan overflow)	□ DPLS2
3 Pole Disconnect Switch (30A/600VUL) [fits 2"X4" utility] - Black	□ TAZ-MS303
3 Pole Disconnect Switch (30A/600VUL) [fits 2"X4" utility] - White	□ TAZ-MS303W
1/4" x 3/8" x 15' / 1/2" Lineset (Twin-Tube Insulation)	□ MLS143812T-15
1/4" x 3/8" x 30' / 1/2" Lineset (Twin-Tube Insulation)	□ MLS143812T-30
1/4" x 3/8" x 50' / 1/2" Lineset (Twin-Tube Insulation)	□ MLS143812T-50
1/4" x 3/8" x 65' / 1/2" Lineset (Twin-Tube Insulation)	□ MLS143812 -65
1/4 x 3/8 x 100' / 1/2" Lineset (Twin-Tube Insulation)	□ MPLS385812 -10

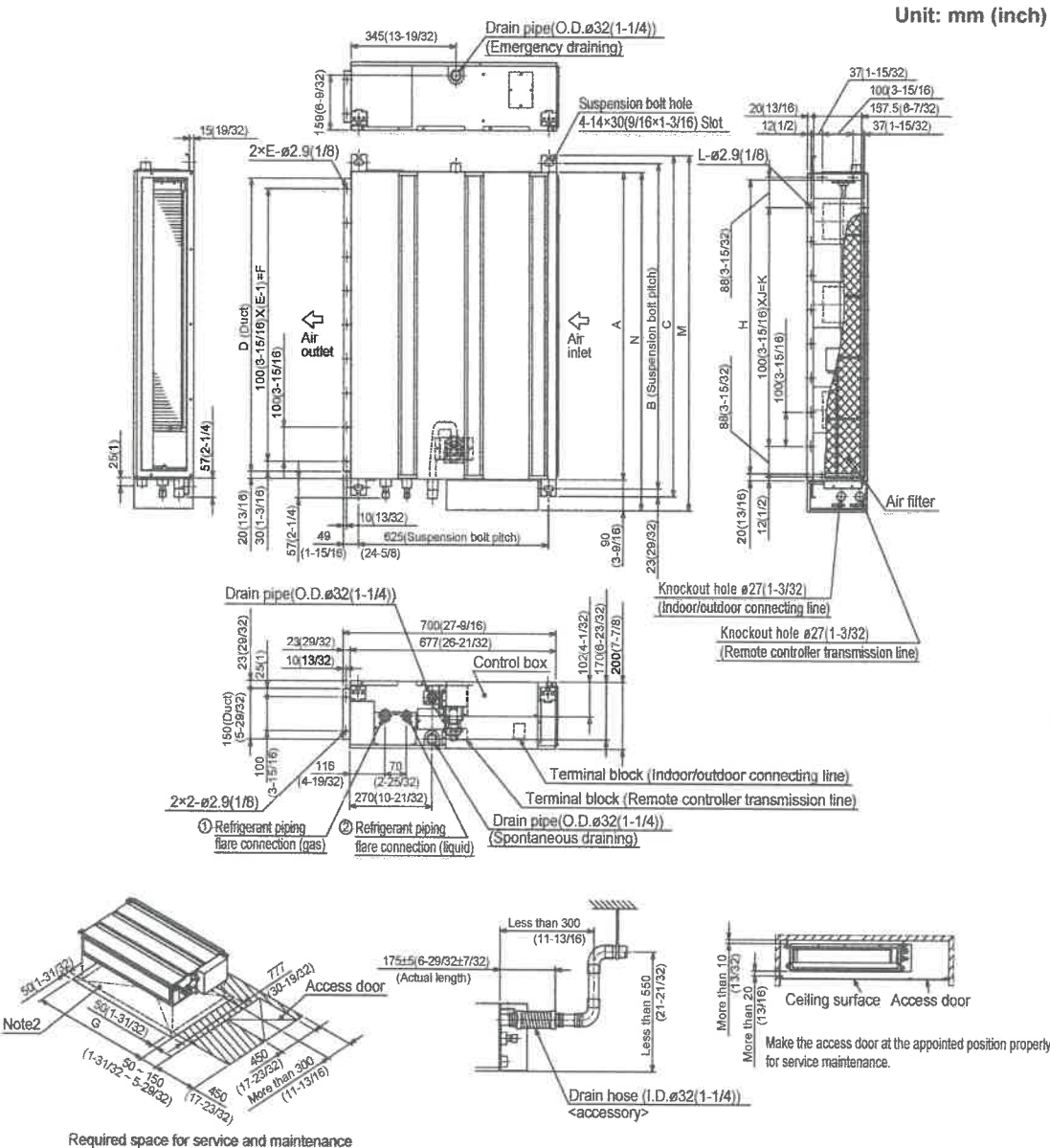
¹ Unable to use with wireless remote controller

Specifications are subject to change without notice.

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DIMENSIONS: SEZ-KD12NA4

Unit: mm (inch)



mm (in.)															① Gas pipe	② Liquid pipe
Sizes	A	B	C	D	E	F	G	H	J	K	L	M	N			
09 kBTu/h	700 (27-9/16)	752 (29-5/8)	798 (31-7/16)	660 (26)	7	600 (23-5/8)	800 (31-1/2)	660 (26)	5	500 (19-11/16)	16	839 (33-1/16)	790 (31-1/8)			
12 kBTu/h		900 (35-7/16)	952 (37-1/2)	860 (33-7/8)	9	800 (31-1/2)	1000 (39-3/8)	860 (33-7/8)	7	700 (27-9/16)	20	1039 (40-29/32)	990 (39)			
15 kBTu/h			998 (39-5/16)													
18 kBTu/h	1100 (43-5/16)	1152 (45-3/8)	1198 (47-3/16)	1060 (41-3/4)	11	1000 (39-3/8)	1200 (47-1/4)	1060 (41-3/4)	9	900 (35-7/16)	24	1239 (48-25/32)	1190 (46-7/8)			

- Note1. Use M10 screw for the suspension bolt (field supply).
2. Keep the service space for the maintenance at the bottom.
3. This chart indicates for size 15 kBTu/h model, which has 3 fans.
Sizes 09,12 kBTu/h models have 2 fans.
Sizes 08 kBTu/h model has 4 fans.
4. When an inlet duct is used, remove the air filter (supply with the unit), then install the filter (field supply) at suction side.



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

FORM#SEZ-KD12NA4 FOR MXZ-C MULTI-ZONE HEAT-PUMP
SYSTEMS - 201811



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Job Name:	
System Reference:	Date:

APPLIES TO INDOOR UNIT:

- ☐ SEZ-KD15NA4
- ☐ SEZ-KD15NA4.TH
- ☐ SEZ-KD15NAR1.TH
- ☐ SEZ-KD15NA4R1.TH



GENERAL FEATURES

- Concealed horizontal-ducted unit for applications with short duct runs
- Quiet operation
- Ultra-thin body: 7-7/8" high
- Built-in condensate lift mechanism
- Multiple control options available:
 - kumo cloud® smart device app for remote access
 - Third-party interface options
 - Wired or wireless controllers

SPECIFICATIONS: SEZ-KD15NA4

Cooling Capacity ^{1, 3}		Btu/h	14,100
Heating Capacity ^{2, 3}		Btu/h	18,000
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	1
Blower Motor Full Load Amperage		A	0.74
Blower Motor Output		W	96
Airflow Rate at Cooling, Dry		CFM	529-441-353
Airflow Rate at Cooling, Wet		CFM	476-396-317
Airflow Rate at Heating, Dry		CFM	529-441-353
Sound Pressure Level (Cooling)		dB(A)	37-34-30
Sound Pressure Level (Heating)		dB(A)	37-34-30
External Static Pressure		in.WG	0.02-0.06-0.14-0.20
Drain Pipe Size		In. (mm)	1 1/4 (32)
Condensate Lift Mechanism, Maximum Distance		In. (mm)	21-21/32 (550)
Heat Exchanger Type			Plate fin coil
External Finish Color			Galvanized
Unit Dimensions	W: In. (mm)		39 (990)
	D: In. (mm)		27 9/16 (700)
	H: In. (mm)		7 7/8 (200)
Package Dimensions	W: In. (mm)		47 1/4 (1,200)
	D: In. (mm)		35 7/16 (900)
	H: In. (mm)		14 3/16 (360)
Unit Weight		Lbs. (kg)	54 (24)
Package Weight		Lbs. (kg)	79 (36)
Refrigerant	Type		R410A
	Charge	Lbs, oz	2, 9

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

³Capacity 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: SEZ-KD15NA4

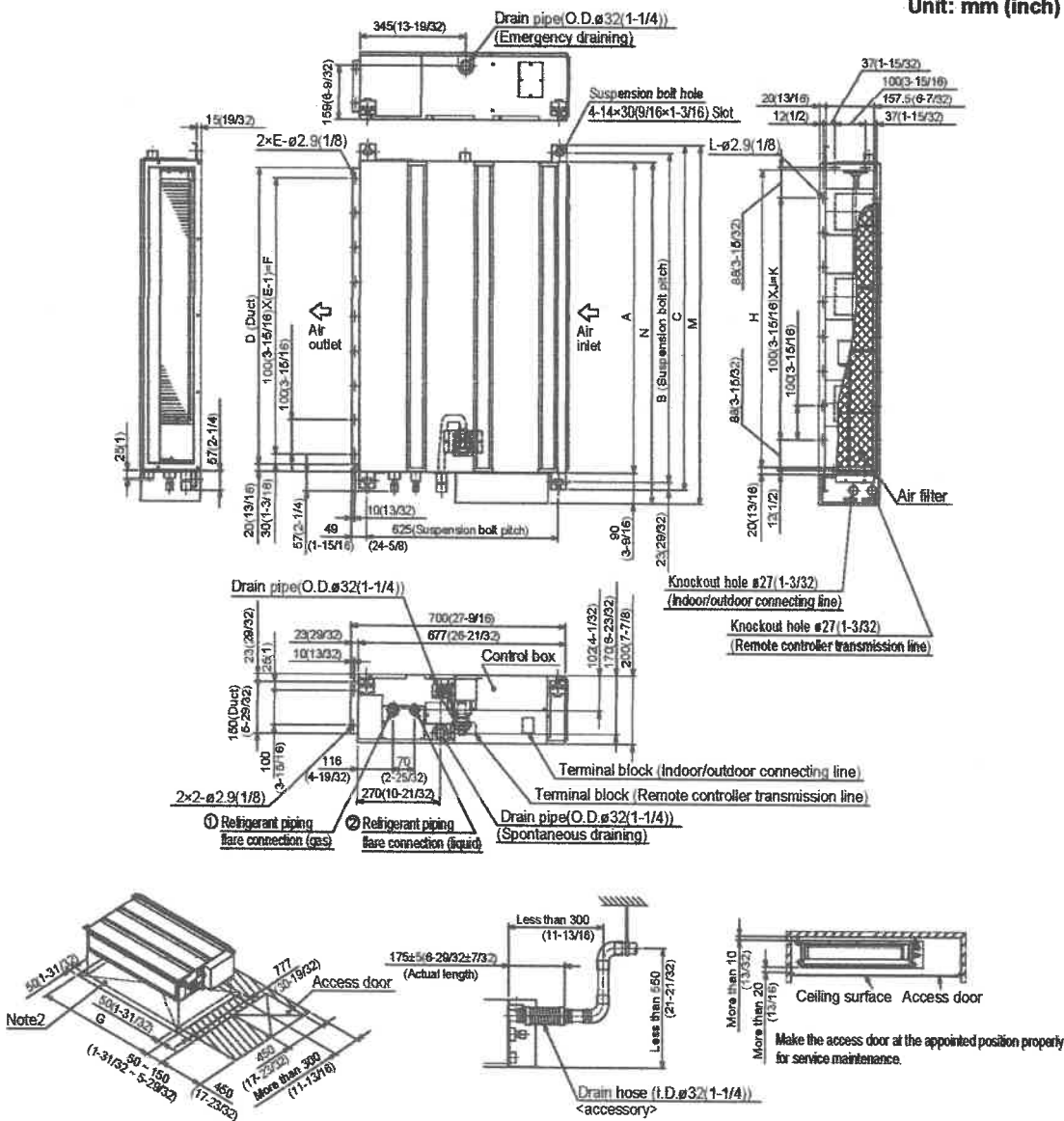
Filter Box with MERV 8 Filters	□ FBL 1-2
Signal Receiver	□ PAR-SA9CA-E
Wireless Remote Controller	□ PAR-FL32MA-E
Wireless Remote Receiver	□ PAR-FA32MA-E
Backlit, Wall-mounted, Wireless Controller	□ MHK1
Portable Central Controller	□ MCCH1
Wired MA Controller	□ PAR-33MAA
Simple MA Controller	□ PAC-YT53CRAU
Touch MA Controller	□ PAR-CT01MAU-SB
Wired Remote Sensor	□ PAC-SE41TS-E
Lockdown Bracket for Wireless, Hand-held, Remote Controller	□ RCMKP1CB
Wireless Temperature and Humidity Sensor	□ PAC-USWHS003-TH-1
Outside Air Sensor for MHK1	□ MOS1
Flush Mount Remote Temperature Sensor	□ PAC-USSEN001-FM-1
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
Remote Operation Adapter (with wire terminals for remote ON/OFF and operation status/ error) ¹	□ PAC-SF40RM-E
Bottom Return Plate (Converts low-profile ducted indoor unit from rear return to bottom return)	□ BRP-2
External Drain Pump	□ PAC-KE07DM-E
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—230V application	□ SI30-230
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
MaxiBlue Advanced Blue Diamond Mini Condensate Pump w/ Reservoir & Sensor (208/230V) up to 48,000 Btu/h [recommended]	□ X87-721 - 208/230V
Drain Pan Level Sensor (Control for indoor unit shut off to prevent drain pan overflow)	□ DPLS2
3 Pole Disconnect Switch (30A/600VUL) [fits 2"x4" utility] - Black	□ TAZ-MS303
3 Pole Disconnect Switch (30A/600VUL) [fits 2"x4" utility] - White	□ TAZ-MS303W
1/4" x 3/8" x 15' / 1/2" Lineset (Twin-Tube Insulation)	□ MLS143812T-15
1/4" x 3/8" x 30' / 1/2" Lineset (Twin-Tube Insulation)	□ MLS143812T-30
1/4" x 3/8" x 50' / 1/2" Lineset (Twin-Tube Insulation)	□ MLS143812T-50
1/4" x 3/8" x 65' / 1/2" Lineset (Twin-Tube Insulation)	□ MLS143812 -65
1/4 x 3/8 x 100' / 1/2" Lineset (Twin-Tube Insulation)	□ MPLS385812 -10

¹ Unable to use with wireless remote controller

Specifications are subject to change without notice.

DIMENSIONS: SEZ-KD15NA4

Unit: mm (inch)



Required space for service and maintenance

														mm (in.)	
Sizes	A	B	C	D	E	F	G	H	J	K	L	M	N	① Gas pipe	② Liquid pipe
09 kBtu/h	700 (27-916)	752 (29-58)	798 (31-716)	660 (26)	7	600 (23-58)	800 (31-12)	660 (26)	5	500 (19-116)	16	839 (33-116)	790 (31-18)	ø9.52(3/8)	ø6.35(1/4)
12 kBtu/h	900 (35-716)	952 (37-12)	998 (39-516)	860 (33-78)	9	800 (31-12)	1000 (39-39)	860 (33-78)	7	700 (27-916)	20	1039 (40-2512)	990 (39)		
15 kBtu/h															
18 kBtu/h	1100 (43-516)	1152 (45-38)	1198 (47-316)	1060 (41-24)	11	1000 (39-39)	1200 (47-14)	1060 (41-24)	9	900 (35-716)	24	1239 (48-2562)	1190 (46-78)	ø12.7(1/2)	

- Note 1. Use M10 screw for the suspension bolt (field supply).
2. Keep the service space for the maintenance at the bottom.
3. This chart indicates for size 15 kBTu/h model, which has 3 fans.
Sizes 09, 12 kBTu/h models have 2 fans.
Sizes 08 kBTu/h model has 4 fans.
4. When an inlet duct is used, remove the air filter (supply with the unit), then install the filter (field supply) at suction side.



COOLING & HEATING

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

FORM# SEZ-KD15NA4 FOR MXZ-C MULTI-ZONE HEAT-PUMP
SYSTEMS - 201811



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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

SPECIFICATIONS: PEAD-A30AA7

Cooling Capacity ^{1, 3}		BTU/H	30,000
Heating Capacity ^{1, 3}		BTU/H	32,000
Electrical	Voltage, Phase, Frequency		208 / 230V, 1-phase, 60 Hz
	Guaranteed Voltage Range	V AC	198 – 253
	Voltage: Indoor - Outdoor, S1-S2	V AC	208 / 230
	Voltage: Indoor - Outdoor, S2-S3	V DC	24
	Short-circuit Current Rating (SCCR)	kA	12
MCA		A	2.73
Fan Motor Full Load Amperage		A	2.18
Fan Motor Output		W	121
Airflow Rate, Dry		CFM	618-742-883
Airflow Rate, Wet		CFM	578-702-843
External Static Pressure		in. WG	0.14-0.20-0.28-0.40-0.60
Sound Pressure Level		dB(A)	30-34-39
Drain Pipe Size		In. (mm)	1-1/4 (32)
Condensate Lift Mechanism, Max. Distance		in. (mm)	27-9/16 (700)
Heat Exchanger Type			Plate fin coil
External Finish Color			Galvanized
Unit Dimensions		W: In. (mm)	43-5/16 (1100)
		D: In. (mm)	28-7/8 (732)
		H: In. (mm)	9-7/8 (250)
Package Dimensions		W: In.	53-3/16
		D: In.	34-11/16
		H: In.	13-7/16
Unit Weight		Lbs. (kg)	69 (31)
Package Weight		Lbs.	82
Refrigerant	Type		R410A
Piping	Gas Pipe Size O.D. (Flared)	In. (mm)	5/8 (15.88)
	Liquid Pipe Size O.D. (Flared)	In. (mm)	3/8 (9.52)

Notes

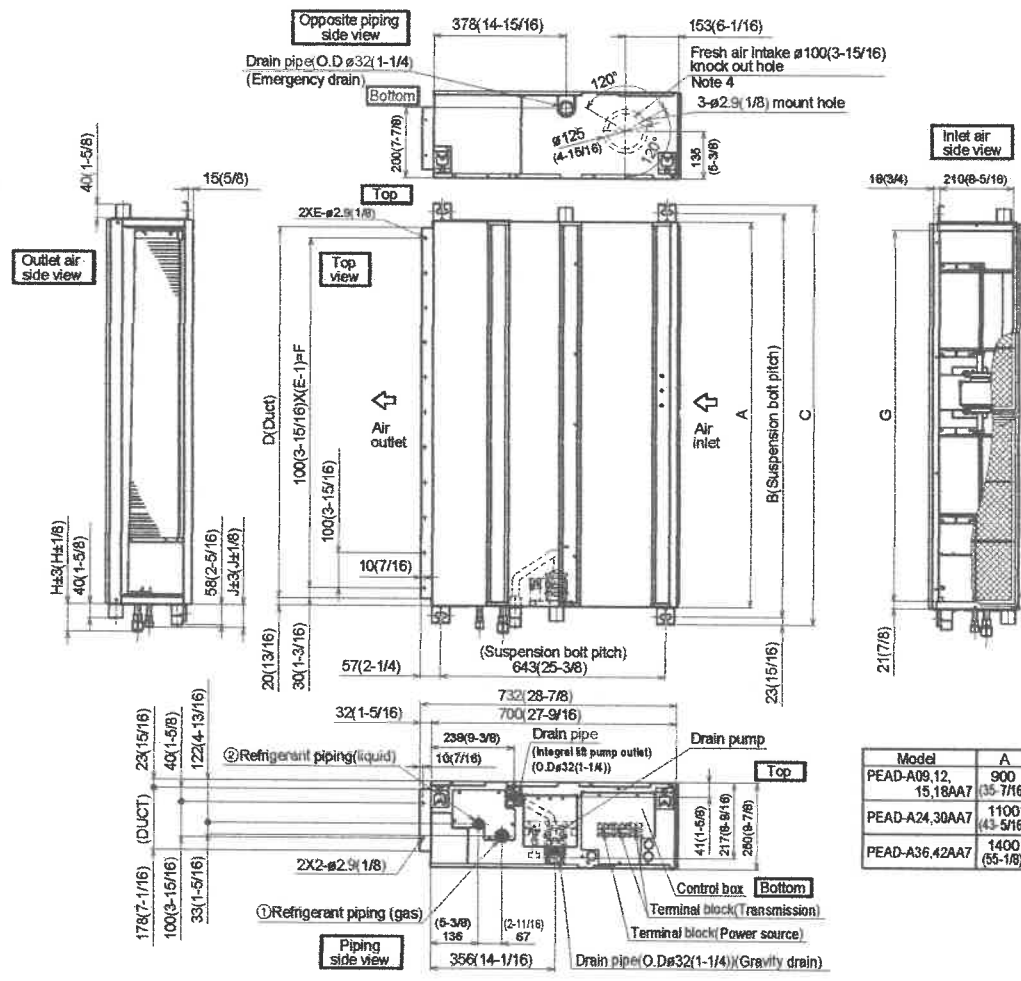
Nominal Conditions	¹ Cooling (Indoor // Outdoor)	°F	80 DB, 67 WB // 95 DB, 75 WB
	² Heating at 47°F (Indoor // Outdoor)		70 DB, 60 WB // 47 DB, 43 WB
³ Capacity varies based on the number of indoor units operating and the model of the MXZ unit. For reference to connected capacity charts, please refer MXZ Multi-Zone Outdoor Unit Operational Performance.			
For data on specific outdoor units with ducted, non-ducted, and mixed combinations, see the MXZ Technical and Service Manual.			

ACCESSORIES: PEAD-A30AA7

Filter Box with MERV 13 Filters	□ FBM2-3-A
Wireless Signal Receiver	□ PAR-SA9CA-E
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
Wire for Remote on/off with CN32 connector	□ PAC-715AD
Lockdown Bracket for Hand-held Remote Controllers	□ RCMKP1CB
Remote Operation Adapter ¹	□ 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
(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 Unable to use with wireless remote controller

DIMENSIONS: PEAD-A30AA7



- Note 1. Use an M10 screw for the suspension bolt (field supply).
- Note 2. Keep the service space for maintenance at the bottom.
- Note 3. This drawing is for PEAD-A24-30-36-42 AA7 models, which have 2 fans. PEAD-A09-12-15-18AA7 models have 1 fan.
- Note 4. If the inlet duct is used, remove the air filter (supplied with the unit), then install the filter (field supply) at the suction side.
- Note 5. Heat air to 0°C (32°F) or higher when taking fresh air with a fresh air intake.

Unit:mm(in.)			
Model	J	①Gas pipe	②Liquid pipe
PEAD-A09AA7	62 (2-1/2)	ø9.52 (3/8)	ø6.35 (1/4)
PEAD-A12,15,18AA7	62 (2-1/2)	ø12.7 (1/2)	ø6.35 (1/4)
PEAD-A24,30AA7	66 (2-5/8)	ø15.88 (5/8)	ø9.52 (3/8)
PEAD-A36,42AA7			

Unit:mm(in.)								
Model	A	B	C	D	E	F	G	H
PEAD-A09,12,15,18AA7	900 (35-7/16)	954 (37-9/16)	1000 (39-3/8)	860 (33-7/8)	9 (3/16)	800 (31-1/2)	858 (33-13/16)	72 (2-7/8)
PEAD-A24,30AA7	1100 (43-5/16)	1154 (45-7/16)	1200 (47-1/4)	1060 (41-3/4)	11 (3/8)	1000 (39-3/8)	1058 (41-11/16)	78 (3-1/8)
PEAD-A36,42AA7	1400 (55-1/8)	1454 (57-1/4)	1500 (59-1/16)	1360 (53-9/16)	14 (11/16)	1300 (51-3/16)	1358 (53-1/2)	

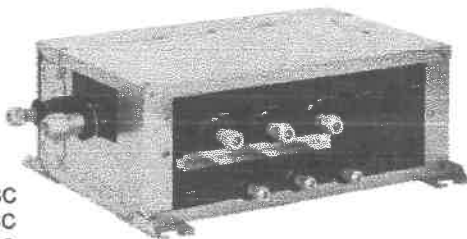
MODEL: PAC-MKA30BC, PAC-MKA31BC, PAC-MKA32BC
PAC-MKA50BC, PAC-MKA51BC, AND PAC-MKA52BC BRANCH BOX



Job Name:

System Reference:

Date:



PAC-MKA30BC
PAC-MKA31BC
PAC-MKA32BC



PAC-MKA50BC
PAC-MKA51BC
PAC-MKA52BC

SPECIFICATIONS

Model Name				PAC-MKA50BC PAC-MKA51BC PAC-MKA52BC	PAC-MKA30BC PAC-MKA31BC PAC-MKA32BC
Connectable number of indoor units				Maximum 5	Maximum 3
Power supply				Single phase, 208/230 V, 60 Hz	
Input		kW		0.003	
Running current		A		0.05	
External finish				Galvanized steel	
Dimensions	Width	Inch (mm)		17-23/32 (450)	
	Depth	Inch (mm)		11-1/32 (280)	
	Height	Inch (mm)		6-11/16 (170)	
Package Dimensions	Width	Inch (mm)		20.1 (511)	
	Depth	Inch (mm)		24.4 (620)	
	Height	Inch (mm)		8.3 (211)	
Weight			lb (kg)	23.4 (10.6)	21.8 (9.9)
Piping Connection (Flare)	Branch (indoor side)*	Liquid	Inch (mm)	ø1/4 (6.35) x 5 {A,B,C,D,E}	
		Gas	Inch (mm)	ø3/8 (9.52) x 4 {A,B,C,D}, ø1/2 (12.7) x 1 {E}	
	Main (outdoor side)	Liquid	Inch (mm)	ø3/8 (9.52)	
		Gas	Inch (mm)	ø5/8 (15.88)	

*The piping connection size differs according to the type of and capacity of indoor units. Match the piping connection size for indoor and branch box. If the piping connection size of the branch does not match the piping connection size of the indoor units, use optional different-diameter (deformed) joints to the branch box side. (Connect deformed joint directly to the branch box side.)

ACCESSORIES:

☐ BBE-1	Branch Box Enclosure
☐ MAC-A454JP-E	Port Adapter
☐ MAC-A455JP-E	Port Adapter
☐ MAC-A456JP-E	Port Adapter
☐ PAC-493PI	Port Adapter
☐ PAC-SG76RJ-E	Port Adapter
☐ ADP5834	Port Adapter
☐ MSDD-50AR-D	Flare connection distribution pipe
☐ MSDD-50BR-E	Brazed connection distribution pipe

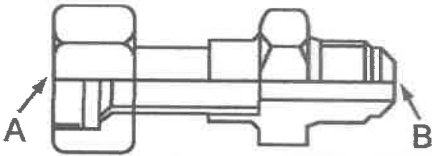
NOTES:

For the MXZ-8C60 outdoor unit:

- When connecting the outdoor unit to the branch box directly, the reduction in pipe size must be made at the branch box using the port adaptor: ADP5834 (5/8" F x 3/4" M).
- When connecting the outdoor unit to the distribution pipe (MSDD-50AR-D, for using 2 branch boxes), the reduction in pipe size must be made at the distribution pipe using the port adaptor: ADP5834 (5/8" F x 3/4" M).

Specifications are subject to change without notice.

OPTIONAL PORT ADAPTORS



Model name	Connected pipes diameter	Diameter A	Diameter B
	Inch. mm	Inch. mm	Inch. mm
MAC-A454JP-E	3/8, ø9.52 → 1/2, ø12.7	3/8, ø9.52	1/2, ø12.7
MAC-A455JP-E	1/2, ø12.7 → 3/8, ø9.52	1/2, ø12.7	3/8, ø9.52
MAC-A456JP-E	1/2, ø12.7 → 5/8, ø15.88	1/2, ø12.7	5/8, ø15.88
PAC-493PI	1/4, ø6.35 → 3/8, ø9.52	1/4, ø6.35	3/8, ø9.52
PAC-SG76RJ-E	3/8, ø9.52 → 5/8, ø15.88	3/8, ø9.52	5/8, ø15.88
ADP5834	5/8, ø15.88 → 3/4, ø19.05	5/8, ø15.88	3/4, ø19.05

DIMENSIONS: PAC-MKA30BC, PAC-MKA31BC, AND PAC-MKA32BC

PAC-MKA30BC, PAC-MKA31BC, AND PAC-MKA32BC (3-BRANCHES TYPE)

Suspension bolt: W3/8 (M10)
Refrigerant pipe flared connection

Refrigerant pipe flared connection inch, mm

inch, mm

	To indoor unit			To outdoor unit
	A	B	C	
Liquid pipe	1/4, Ø6.35	1/4, Ø6.35	1/4, Ø6.35	3/8, Ø9.52
Gas pipe	3/8, Ø9.52	3/8, Ø9.52	3/8, Ø9.52	5/8, Ø15.88

SUSPENSION BOLT: W3/8(M10)
REFRIGERANT PIPE FLARED CONNECTION

REFRIGERANT PIPE FLARED CONNECTION						Unit: inch
	A	B	C			TO OUTDOOR UNIT

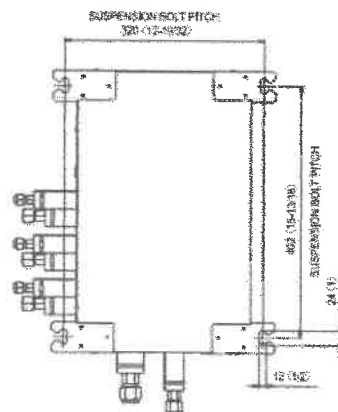
Unit: inch

	A	B	C		TO OUTDOOR UNIT
LIQUID PIPE	1/4F	1/4F	1/4F		3/8F
GAS PIPE	3/8F	3/8F	3/8F		5/8F

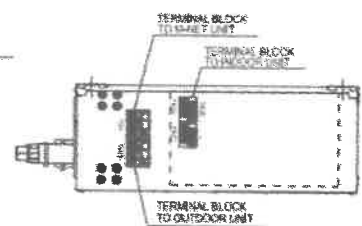
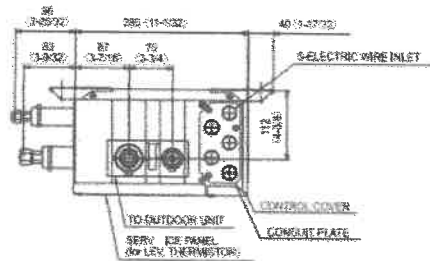
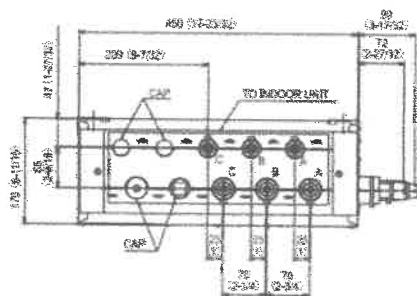
PAC-MKA30BC

PAC-MAK31BC

PAC-MAK32BC



Unit: mm (inch)



DIMENSIONS: PAC-MKA50BC, PAC-MKA51BC, AND PAC-MKA52BC

PAC-MKA50BC, PAC-MKA51BC, AND PAC-MKA52BC (5-BRANCHES TYPE)

Suspension bolt: W3/8 (M10)
Refrigerant pipe flared connection

inch, mm

	To indoor unit					To outdoor unit
	A	B	C	D	E	
Liquid pipe	1/4, ø6.35	1/4, ø6.35	1/4, ø6.35	1/4, ø6.35	1/4, ø6.35	3/8, ø9.52
Gas pipe	3/8, ø9.52	3/8, ø9.52	3/8, ø9.52	3/8, ø9.52	1/2, ø12.7	5/8, ø15.88

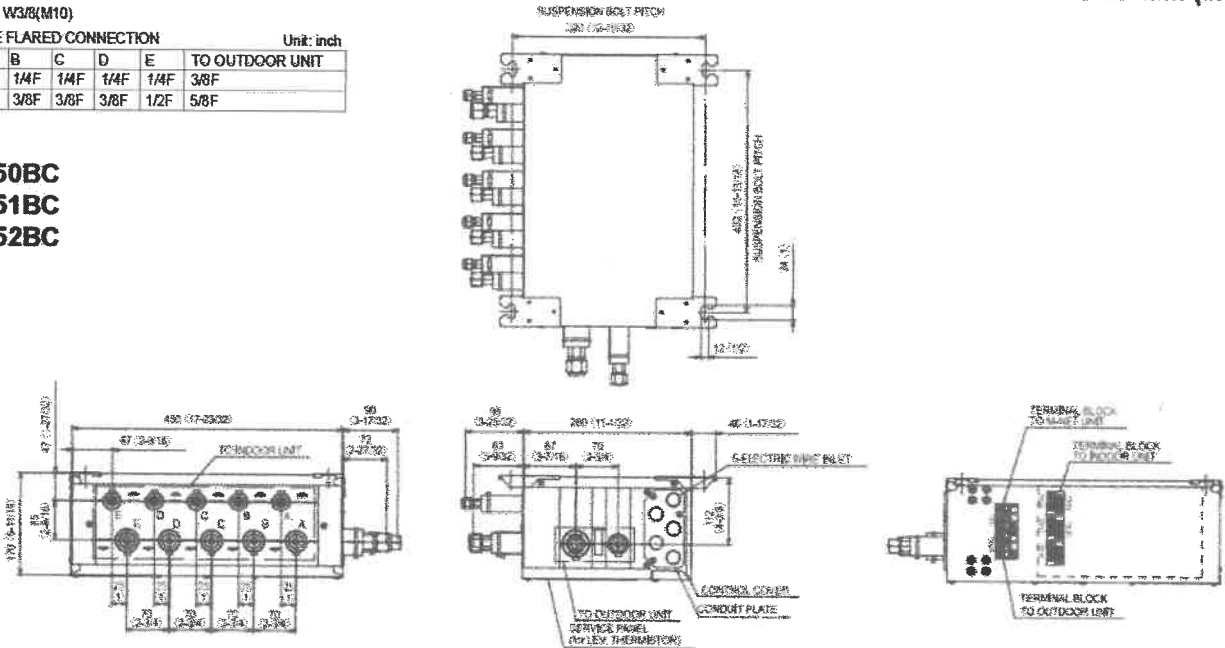
Conversion formula	
1/4F	ø6.35
3/8F	ø9.52
1/2F	ø12.7
5/8F	ø15.88
3/4F	ø19.05

Unit: mm (inch)

SUSPENSION BOLT: W3/8(M10)

REFRIGERANT PIPE FLARED CONNECTION						Unit: inch
	A	B	C	D	E	TO OUTDOOR UNIT
LIQUID PIPE	1/4F	1/4F	1/4F	1/4F	1/4F	3/8F
GAS PIPE	3/8F	3/8F	3/8F	3/8F	1/2F	5/8F

PAC-MKA50BC
PAC-MKA51BC
PAC-MKA52BC



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FORM# M_Submittal_PAC-MKA30-31-32-50-51-52BC - 202004

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Job Name:	
System Reference:	Date:

APPLIES TO INDOOR UNIT:

- ☐ SEZ-KD09NA4
- ☐ SEZ-KD09NA4.TH
- ☐ SEZ-KD09NAR1.TH
- ☐ SEZ-KD09NA4R1.TH



GENERAL FEATURES

- Concealed horizontal-ducted unit for applications with short duct runs
- Quiet operation
- Ultra-thin body: 7-7/8" high
- Built-in condensate lift mechanism
- Multiple control options available:
 - kumo cloud® smart device app for remote access
 - Third-party interface options
 - Wired or wireless controllers

SPECIFICATIONS: SEZ-KD09NA4

Cooling Capacity ^{1, 3}		Btu/h	8,100
Heating Capacity ^{2, 3}		Btu/h	10,900
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	1
Blower Motor Full Load Amperage		A	0.51
Blower Motor Output		W	96
Airflow Rate at Cooling, Dry		CFM	317-247-194
Airflow Rate at Cooling, Wet		CFM	285-222-174
Airflow Rate at Heating, Dry		CFM	317-247-194
Sound Pressure Level (Cooling)		dB(A)	30-26-23
Sound Pressure Level (Heating)		dB(A)	30-26-23
External Static Pressure		in.WG	0.02-0.06-0.14-0.20
Drain Pipe Size		In. (mm)	1 1/4 (32)
Condensate Lift Mechanism, Maximum Distance		In. (mm)	21-21/32 (550)
Heat Exchanger Type			Plate fin coil
External Finish Color			Galvanized
Unit Dimensions	W: In. (mm)		31 1/8 (790)
	D: In. (mm)		27 9/16 (700)
	H: In. (mm)		7 7/8 (200)
Package Dimensions	W: In. (mm)		39 3/8 (1,000)
	D: In. (mm)		35 7/16 (900)
	H: In. (mm)		14 3/16 (360)
Unit Weight		Lbs. (kg)	42 (19)
Package Weight		Lbs. (kg)	64 (29)
Refrigerant	Type		R410A
	Charge	Lbs, oz	1, 16

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

³Capacity 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: SEZ-KD09NA4

Filter Box with MERV 8 Filters	□ FBL 1-1
Signal Receiver	□ PAR-SA9CA-E
Wireless Remote Controller	□ PAR-FL32MA-E
Wireless Remote Receiver	□ PAR-FA32MA-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
Wired Remote Sensor	□ PAC-SE41TS-E
Lockdown Bracket for Wireless, Hand-held, Remote Controller	□ RCMKP1CB
Wireless Temperature and Humidity Sensor	□ PAC-USWHS003-TH-1
Outside Air Sensor for MHK1	□ MOS1
Flush Mount Remote Temperature Sensor	□ PAC-USSEN001-FM-1
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
Remote Operation Adapter (with wire terminals for remote ON/OFF and operation status/ error) ¹	□ PAC-SF40RM-E
Bottom Return Plate (Converts low-profile ducted indoor unit from rear return to bottom return)	□ BRP-1
External Drain Pump	□ PAC-KE07DM-E
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—230V application	□ SI30-230
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
MaxiBlue Advanced Blue Diamond Mini Condensate Pump w/ Reservoir & Sensor (208/230V) up to 48,000 Btu/h [recommended]	□ X87-721 - 208/230V
Drain Pan Level Sensor (Control for indoor unit shut off to prevent drain pan overflow)	□ DPLS2
3 Pole Disconnect Switch (30A/600VUL) [fits 2"x4" utility] - Black	□ TAZ-MS303
3 Pole Disconnect Switch (30A/600VUL) [fits 2"x4" utility] - White	□ TAZ-MS303W
1/4" x 3/8" x 15' / 1/2" Lineset (Twin-Tube Insulation)	□ MLS143812T-15
1/4" x 3/8" x 30' / 1/2" Lineset (Twin-Tube Insulation)	□ MLS143812T-30
1/4" x 3/8" x 50' / 1/2" Lineset (Twin-Tube Insulation)	□ MLS143812T-50
1/4" x 3/8" x 65' / 1/2" Lineset (Twin-Tube Insulation)	□ MLS143812 -65
1/4 x 3/8 x 100' / 1/2" Lineset (Twin-Tube Insulation)	□ MPLS385812 -10

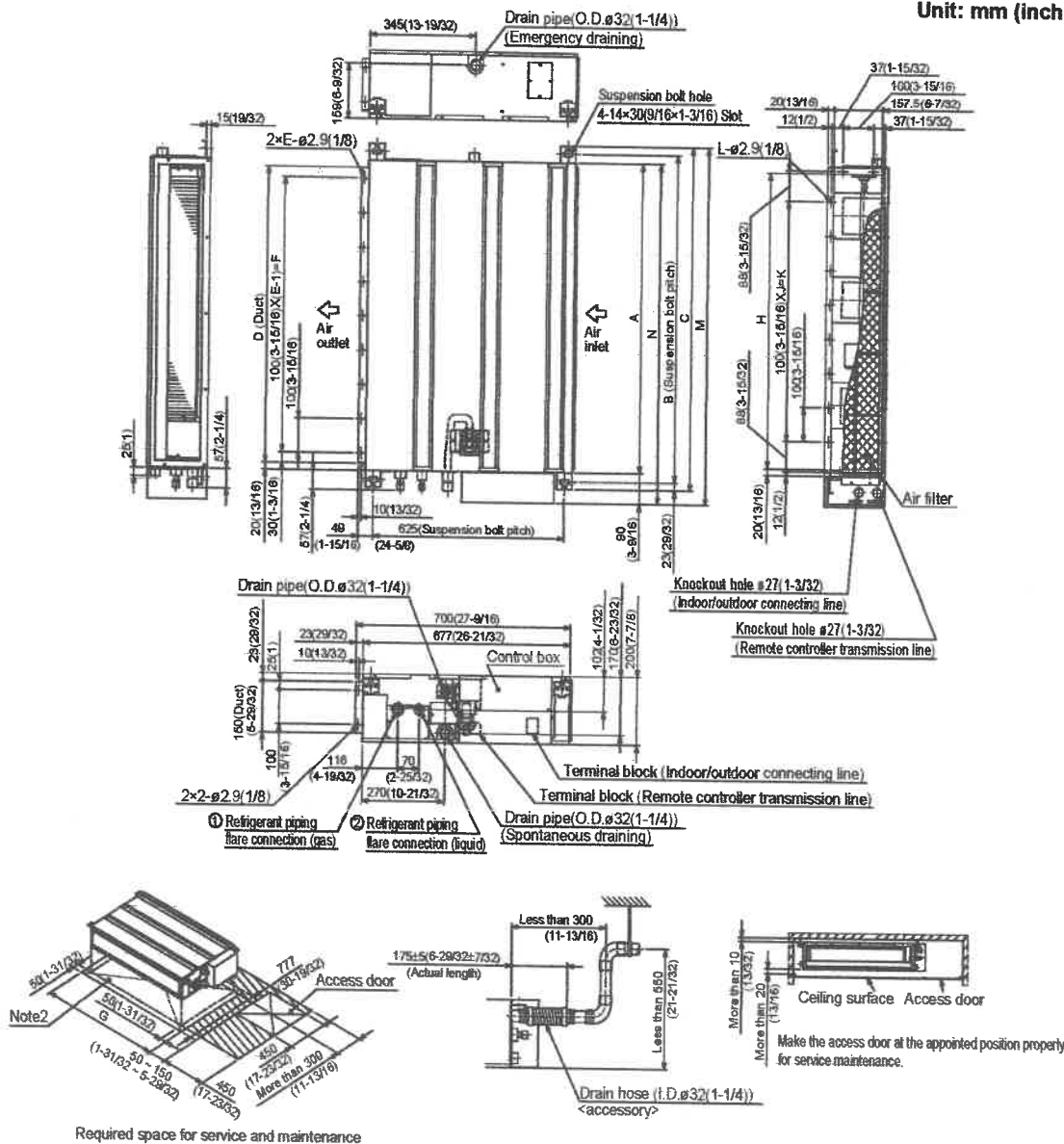
¹ Unable to use with wireless remote controller

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DIMENSIONS: SEZ-KD09NA4

Unit: mm (inch)



mm (in.)														① Gas pipe	② Liquid pipe
Sizes	A	B	C	D	E	F	G	H	J	K	L	M	N		
09 kBTu/h	700 (27-9/16)	752 (29-5/8)	798 (31-7/16)	660 (26)	7	600 (23-5/8)	800 (31-1/2)	660 (26)	5	500 (19-11/16)	16	839 (33-1/16)	790 (31-1/8)	ø9.52(3/8)	ø6.35(1/4)
12 kBTu/h	900 (35-7/16)	952 (37-1/2)	998 (39-5/16)	860 (33-7/8)	9	800 (31-1/2)	1000 (39-3/8)	860 (33-7/8)	7	700 (27-9/16)	20	1039 (40-29/32)	990 (39)		
15 kBTu/h	1100 (43-5/16)	1152 (45-3/8)	1198 (47-3/16)	1060 (41-3/4)	11	1000 (39-3/8)	1200 (47-1/4)	1060 (41-3/4)	9	900 (35-7/16)	24	1239 (48-25/32)	1190 (46-7/8)	ø12.7(1/2)	

- Note1. Use M10 screw for the suspension bolt (field supply).
2. Keep the service space for the maintenance at the bottom.
3. This chart indicates for size 15 kBTu/h model, which has 3 fans.
Sizes 09,12 kBTu/h models have 2 fans.
Sizes 08 kBTu/h model has 4 fans.
4. When an inlet duct is used, remove the air filter (supply with the unit), then install the filter (field supply) at suction side.



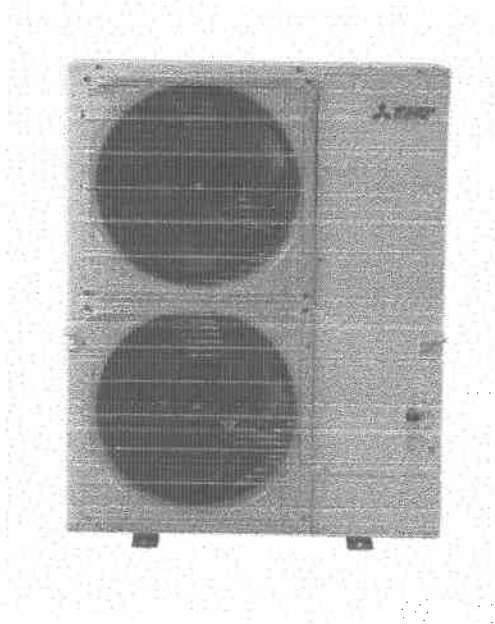
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FORM# SEZ-KD09NA4 FOR MXZ-C MULTI-ZONE HEAT-PUMP
SYSTEMS - 201811



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- FEATURES**
- Variable speed INVERTER-driven compressor
 - Blue Fin Coating on heat exchanger
 - Thermal Differential 1°F (with PAC-MKA32/52BC only)
 - Branch box for simplified piping and installation flexibility
 - Up to 8 indoor units connectable (six [6] if a PLA-A**EA7 is connected)
 - 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-8C48NA2

Indoor unit type			Non-Ducted	Mix	Ducted
Cooling ¹	Maximum Capacity	BTU/H	48,000	48,000	48,000
	Rated Capacity	BTU/H	48,000	48,000	48,000
	Minimum Capacity	BTU/H	15,500	15,500	15,500
	Maximum Power Input	W	3,930	4,320	4,800
	Rated Power Input	W	3,930	4,320	4,800
	Power Factor (208V, 230V)	%	98.6 / 98.6	98.9 / 98.9	99.2 / 99.2
Heating at 47°F ²	Maximum Capacity	BTU/H	54,000	54,000	54,000
	Rated Capacity	BTU/H	54,000	54,000	54,000
	Minimum Capacity	BTU/H	22,500	22,500	22,500
	Maximum Power Input	W	4,220	4,520	4,800
	Rated Power Input	W	4,220	4,520	4,800
	Power Factor (208V, 230V)	%	98.6 / 98.6	98.9 / 98.9	99.2 / 99.2
Heating at 17°F ³	Maximum Capacity	BTU/H	36,600	36,600	36,600
	Rated Capacity	BTU/H	33,000	33,000	33,000
	Maximum Power Input	W	5,200	5,550	5,200
	Rated Power Input	W	3,720	3,870	4,030
Heating at 5°F ⁴	Maximum Capacity	BTU/H	32,400	32,400	32,400
	Maximum Power Input	W	4,750	4,870	5,000
Efficiency	SEER		20.00	18.00	16.00
	EER ¹		12.20	11.10	10.00
	HSPF (IV)		11.5	10.8	10.1
	COP at 47° F ²		3.75	3.50	3.30
	COP at 17° F ³		2.00	1.90	2.00
	COP at 5° F ⁴		2.00	1.90	1.90
	ENERGY STAR® Certified		NO	NO	NO
Electrical	Voltage, Phase, Frequency		208 / 230V, 1-phase, 60 Hz		
	Guaranteed Voltage Range	V AC	198-253		
	Voltage: Indoor - Outdoor, S1-S2	V AC	208 / 230		
	Voltage: Indoor - Outdoor, S2-S3	V DC	24		
	Short-circuit Current Rating (SCCR)	5kA	5		
	Recommended Fuse/Breaker Size (Outdoor)	A	40		
	Recommended Wire Size (Indoor - Outdoor)	AWG	16		
Outdoor unit	MCA	A	35		
	MOCP	A	50		
	Fan Motor Full Load Amperage	A	0.6 + 0.6		
	Fan Motor Output	W	74		
	Airflow Rate Cooling / Heating	CFM	3,885 / 3,885		
	Refrigerant Control		Linear Expansion Valve		
	Defrost Method		Reverse Cycle		
	Heat Exchanger Type		Plate Fin Coil		
	Sound Pressure Level, Cooling ¹	dB(A)	51		
	Sound Pressure Level, Heating ²	dB(A)	54		
	Compressor Type		Hermetic		
	Compressor Model		ANB33FNHMT		
	Compressor Motor Output	KW	3.4		
	Compressor Rated Load Amps	A	19.0		
	Compressor Locked Rotor Amps	A	22.0		
	Compressor Oil Type // Charge	oz.	FV50S // 78		
	External Finish Color		Munsell 3Y 7.8/ 1.1		

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SPECIFICATIONS: MXZ-8C48NA2

Indoor unit type		Non-Ducted		Mix	Ducted
	Base Pan Heater		Optional (PAC-SJ20BH-E)		
	Unit Dimensions	W. In. [mm]	41-11/32 [1,050]		
		D. In. [mm]	13 [330]		
		H. In. [mm]	52-11/16 [1,338]		
	Package Dimensions	W. In. [mm]	42-5/16 [1,090]		
		D. In. [mm]	17-3/4 [450]		
		H. In. [mm]	56-5/16 [1,430]		
	Unit Weight	Lbs. [kg]	271 [123]		
Outdoor unit operating temperature range	Package Weight	Lbs. [kg]	295 [134]		
	Cooling Intake Air Temp (Maximum / Minimum*)	°F	115 DB / 23°C DB		
	Cooling Thermal Lock-out / Re-start Temperatures		-1 / 3		
	Heating Intake Air Temp (Maximum / Minimum)	°F	70 DB / -4 DB		
	Heating Thermal Lock-out / Re-start Temperatures	°F	-9 / -4		
Refrigerant	Type		R410A		
	Charge	Lbs, oz	10 lbs, 9 oz		
Indoor unit connection	Maximum Number of Connected IDU		8 (6**)		
	Minimum Number of Connected IDU		2		
	Maximum connected capacity	BTU/H	62,000		
	Minimum connected capacity	BTU/H	12,000		
Piping	Gas Pipe Size O.D. (Flared)	In. [mm]	5/8 [15.88]		
	Liquid Pipe Size O.D. (Flared)	In. [mm]	3/8 [9.52]		
	Total Piping Length	Ft. [m]	492 [150]		
	Maximum Height Difference ^B , ODU above IDU	Ft. [m]	164 [50]		
	Maximum Height Difference ^B , ODU below IDU	Ft. [m]	131 [40]		
	Maximum Height Difference ^B , between branch boxes	Ft. [m]	49 [15]		
	Maximum Height Difference ^B , between branch boxes and IDU	Ft. [m]	49 [15]		
	Max. Piping Length between ODU and Branch Box	Ft. [m]	180 [55]		
	Farthest Piping Length from ODU to IDU	Ft. [m]	262 [80]		
	Farthest Piping Length after Branch Box	Ft. [m]	82 [25]		
	Total Piping Length between Branch Boxes and IDU	Ft. [m]	311 [95]		
	Maximum Number of Bends for IDU		15		
	Maximum Number of Bends for ODU		120		

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, 5 WB
[*] Applications should be restricted to comfort cooling only; equipment cooling applications are not recommended for low ambient temperature conditions.			
^{**A} when 1 or more PLA-A-EA7 connected			
^B Branch box should be placed within the level between the outdoor unit and indoor units			
^C 5°F DB - 115°F DB when optional wind baffles are installed			
For reference to connected capacity charts, please refer MXC Series 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.			

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ACCESSORIES: MXZ-8C48NA2

Distribution pipe for Branch box (Flare Connection)	□ MSDD-50AR-E
Distribution pipe for Branch box (Brazed Connection)	□ MSDD-50BR-E
Port Adapter size: 3/8" x 5/8"	□ PAC-SG76RJ-E
Port Adapter size: 1/4" x 3/8"	□ PAC-493PI
Port Adapter size: 3/8" X 1/2"	□ MAC-A454JP-E
Port Adapter size: 1/2" X 3/8"	□ MAC-A455JP-E
Port Adapter size: 1/2" X 5/8"	□ MAC-A456JP-E
Branch Box	□ PAC-MKA52BC
Branch Box	□ PAC-MKA32BC
Branch Box Outer Cover	□ BBE-1
Air Outlet Guide	□ PAC-SH96SG-E (two pieces are required)
Front Wind Baffle	□ WB-PA3 (two pieces are required)
Optional Defrost Heater	□ PAC-SJ20BH-E
Centralized Drain Pan	□ PAC-SH97DP-E
Refrigeration Ball Valve-Flare/Schrader/Insulated — 1/2" size	□ BV12FFSI2
Refrigeration Ball Valve-Flare/Schrader/Insulated — 1/4" size	□ BV14FFSI2
Refrigeration Ball Valve-Flare/Schrader/Insulated — 3/8" size	□ BV38FFSI2
Refrigeration Ball Valve-Flare/Schrader/Insulated — 5/8" size	□ BV58FFSI2
Hail Guard	□ HG-A2
Outdoor Unit 3-1/4 inch Mounting Base (Pair) - Plastic	□ DSD-409P
Condensing Unit Mounting Pad 16" x 36" x 3"	□ ULTRILITE1
Outdoor Unit Stand — 12" High	□ QSMS1202M
Outdoor Unit Stand — 18" High	□ QSMS1802M
Outdoor Unit Stand — 24"High	□ QSMS2402M
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

SYSTEM DESIGN: MXZ-8C48NA2

Outdoor unit			MXZ-4C36NAHZ2-U1	MXZ-5C42NAHZ2-U1	MXZ-8C48NAHZ2-U1 MXZ-8C48NA2-U1	MXZ-8C60NA2-U1
			4HP	4.5HP	5HP	7HP
Rated capacity (kBtu/h)	Cooling		36	42	48	60
	Heating		45	48	54	66
			Refrigerant			
			R410A			
Connectable indoor unit	Capacity class		Type 06 to Type 36			
			Caution: The indoor unit which rated capacity exceeds 36 kBtu/h (Type 36) can NOT be connected.			
	Number of units		2(*) to 4 units	2(*) to 5 units	2(*) to 8 units	2(*) to 8 units
Connectable branch box	Total system capacity range		33 to 130% of outdoor unit capacity (12 to 46.8 kBtu/h)	29 to 130% of outdoor unit capacity (12 to 54.6 kBtu/h)	25 to 130% of outdoor unit capacity (12 to 62.4 kBtu/h)	20 to 130% of outdoor unit capacity (12 to 78 kBtu/h)
	Number of units		1 or 2 units			

Connectable indoor unit lineups (Heat pump inverter type)								
Model type	Model name	Capacity class [kBtu/h]						
		06	09	12	15	18	24	30
Deluxe Wall-mounted	MSZ-FH06/09/12/15NA, 18NA2	●	●	●	●	●		
Designer	MSZ-EF09/12/15/18NA(WB/S)		●	●	●	●		
Standard Wall-mounted	MSZ-GL06/09/12/15/18/24NA	●	●	●	●	●	●	
Low static ducted ^{3 4}	SEZ-KD09/12/15/18NA		●	●	●	●		
P-series mid static ducted ^{3 4}	PEAD-A09/12/15/18/24/30/36AA7		●	●	●	●	●	●
1-way cassette	MLZ-KP09/12/18NA		●	●	●	●		
P-series 22*22 4-way cassette	SLZ-KF09/12/15NA		●	●	●	●		
P-series 33*33 4-way cassette	PLA-A12/18/24/30/36EA7 ⁵			●	●	●	●	●
Floor standing	MFZ-KJ09/12/15/18NA		●	●	●	●		
Standard Multi-position air handler ²	SVZ-KP12/18/24/30/36NA			●	●	●	●	●

Branch box	PAC-MKA52BC	PAC-MKA32BC
Number of branches (Indoor unit that can be connected)	5 branches (MAX. 5 units)	3 branches (MAX. 3 units)

Note: A maximum of 2 branch boxes can be connected to 1 outdoor unit.

2- branch pipe (joint): Optional parts		
In the case of using 1- branch box	No need	
In the case of using 2- branch boxes	Model name	Connection method
	MSDD-50AR-E	flare
	MSDD-50BR-E	brazing
	Select a model according to the connection method.	

Option	Optional accessories for indoor units and outdoor units are available.
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^{*1} Only one unit connection is possible with ducted unit.

^{*2} When connecting a multi-position unit(s), set additional constraints as follows. For connections other than those specified below, consult your dealer.

● Models other than MXZ-8C60NA2 (For each connected branch box)

Number of connecting multi-position unit	Constraints
2	Any indoor units other than ducted units are not connectable.
1	· The total system wide capacity should be 130% or below including the ducted unit. · Only 1 ducted unit can be included in the connection.

● MXZ-8C60NA2 (For each connected branch box)

Number of connecting multi-position unit	Constraints
2	Any indoor units other than ducted unit are not connectable.
1	· The total system wide capacity should be 100% or below including the ducted unit. · Only 1 ducted unit can be included in the connection.

^{*3} For MXZ-8C60NA2: When connecting the SEZ and PEAD-series units, the total system wide capacity per 1 branch box should be 100% or below including the ducted units. (Only if connecting to branch box)

^{*4} When not outside units 60: A branch box can connect to maximum 3 of the ducted units. When connecting with 3 of the ducted units per 1 branch box, other indoor units cannot be connected.
When outside units 60: A branch box can connect to maximum 2 of the ducted units. When connecting with 1 and over 1 of the ducted units, the total ability including of the ducted units is 100% and below 100%.

^{*5} When the system includes 1 unit of ducted units, the number of the maximum connectable indoor units is decreased as follows:
3 for MXZ-4C36NAHZ2-U1, 4 for MXZ-5C42NAHZ2-U1, and 6 for MXZ-8C48NA(HZ)2-U1 and MXZ-8C60NA2-U1



NOTE

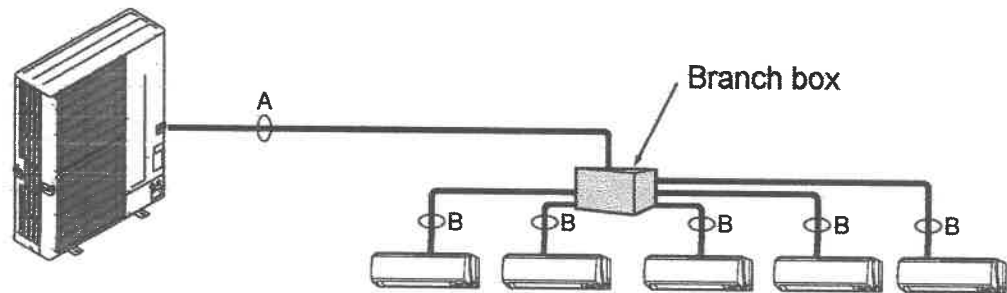
Please refer to Application Note 1039 for more information and exceptions to these rules.

Piping connection size

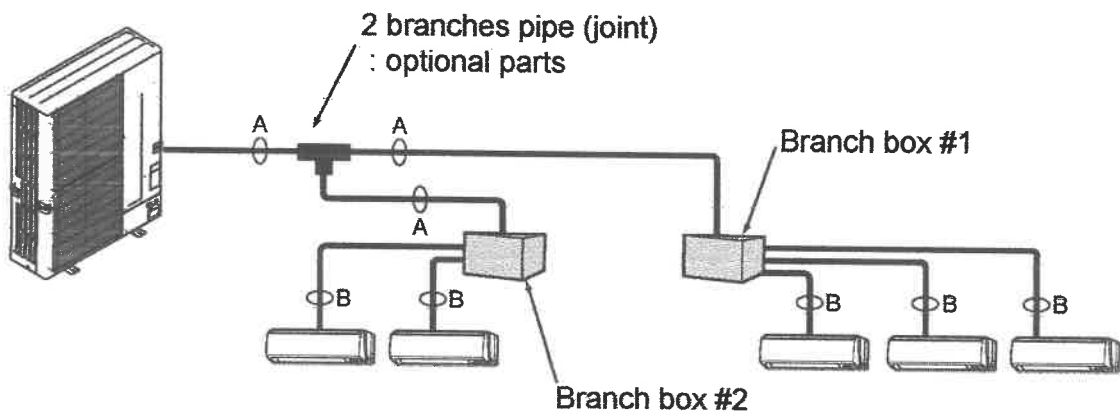
	A	B
Liquid	$\phi 3/8$ inch [9.52 mm]	The piping connection size differs according to the type and capacity of indoor units. Match the piping connection size of branch box with indoor unit. If the piping connection size of branch box does not match the piping connection size of indoor unit, use optional different-diameter (deformed) joints to the branch box side. (Connect deformed joint directly to the branch box side.)
Gas	$\phi 5/8$ inch / $\phi 3/4$ inch* [15.88 mm] / [19.05 mm]	

* MXZ-8C60 only

- In case of using 1-branch box
Flare connection employed (No brazing)



- In case of using 2-branch boxes



- Installation procedure (2 branches pipe (joint))
Refer to the installation manuals of MSDD-50AR-E and MSDD-50BR-E.



ACCESSORIES: MXZ-8C48NA2

Distribution pipe for Branch box (Flare Connection)	□ MSDD-50AR-E
Distribution pipe for Branch box (Brazed Connection)	□ MSDD-50BR-E
Port Adapter size: 3/8" x 5/8"	□ PAC-SG76RJ-E
Port Adapter size: 1/4" x 3/8"	□ PAC-493PI
Port Adapter size: 3/8" X 1/2"	□ MAC-A454JP-E
Port Adapter size: 1/2" X 3/8"	□ MAC-A455JP-E
Port Adapter size: 1/2" X 5/8"	□ MAC-A456JP-E
Branch Box	□ PAC-MKA52BC
Branch Box	□ PAC-MKA32BC
Branch Box Outer Cover	□ BBE-1
Air Outlet Guide	□ PAC-SH96SG-E (two pieces are required)
Front Wind Baffle	□ WB-PA3 (two pieces are required)
Optional Defrost Heater	□ PAC-SJ20BH-E
Centralized Drain Pan	□ PAC-SH97DP-E
Refrigeration Ball Valve-Flare/Schrader/Insulated — 1/2" size	□ BV12FFSI2
Refrigeration Ball Valve-Flare/Schrader/Insulated — 1/4" size	□ BV14FFSI2
Refrigeration Ball Valve-Flare/Schrader/Insulated — 3/8" size	□ BV38FFSI2
Refrigeration Ball Valve-Flare/Schrader/Insulated — 5/8" size	□ BV58FFSI2
Hail Guard	□ HG-A2
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	□ QSMS1202M
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DIMENSIONS: PAC-MKA52BC AND PAC-MKA32BC BRANCH BOXES

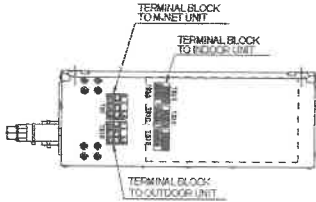
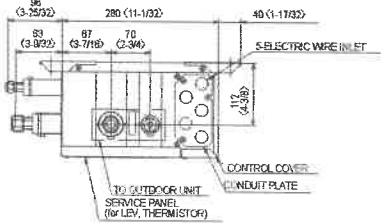
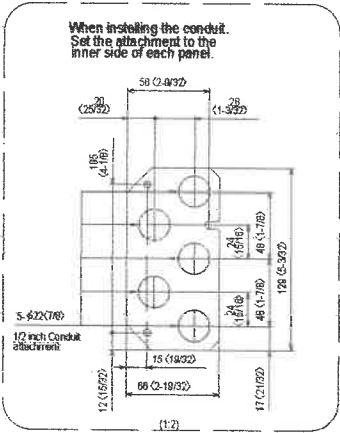
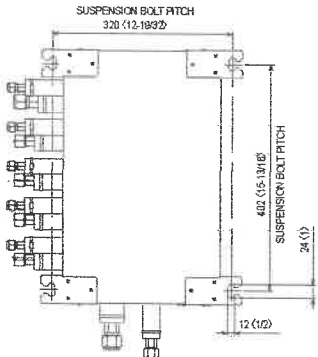
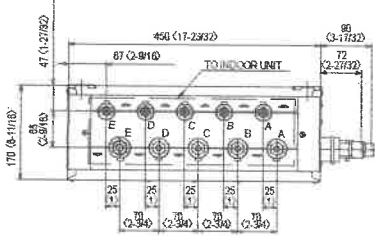
PAC-MKA52BC

Unit: mm <inch>

SUSPENSION BOLT: W3/8(M10)

REFRIGERANT PIPE FLARED CONNECTION

	A	B	C	D	E	TO OUTDOOR UNIT
LIQUID PIPE	1/4F	1/4F	1/4F	1/4F	1/4F	3/8F
GAS PIPE	3/8F	3/8F	3/8F	3/8F	1/2F	5/8F

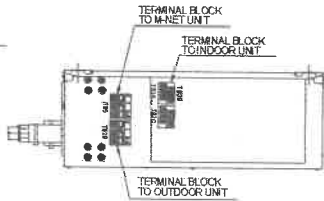
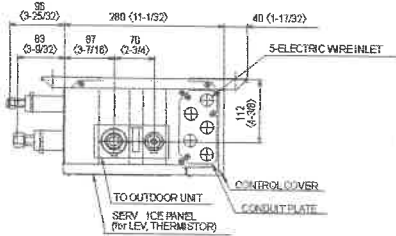
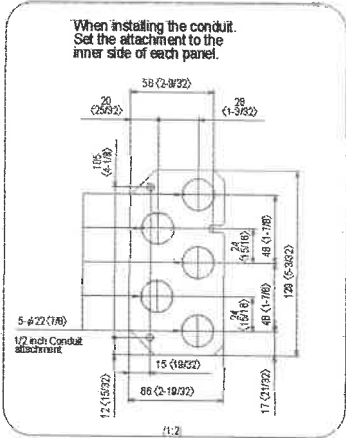
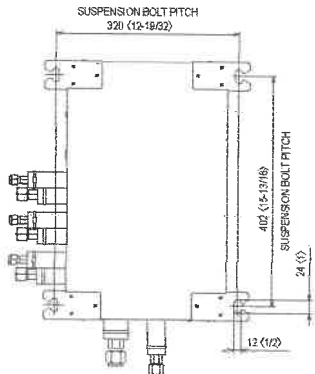
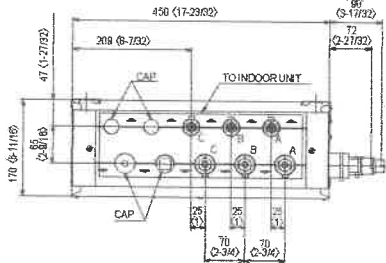


PAC-MKA32BC

SUSPENSION BOLT: W3/8(M10)

REFRIGERANT PIPE FLARED CONNECTION

	A	B	C		TO OUTDOOR UNIT
LIQUID PIPE	1/4F	1/4F	1/4F		3/8F
GAS PIPE	3/8F	3/8F	3/8F		5/8F



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Specifications are subject to change without notice.

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