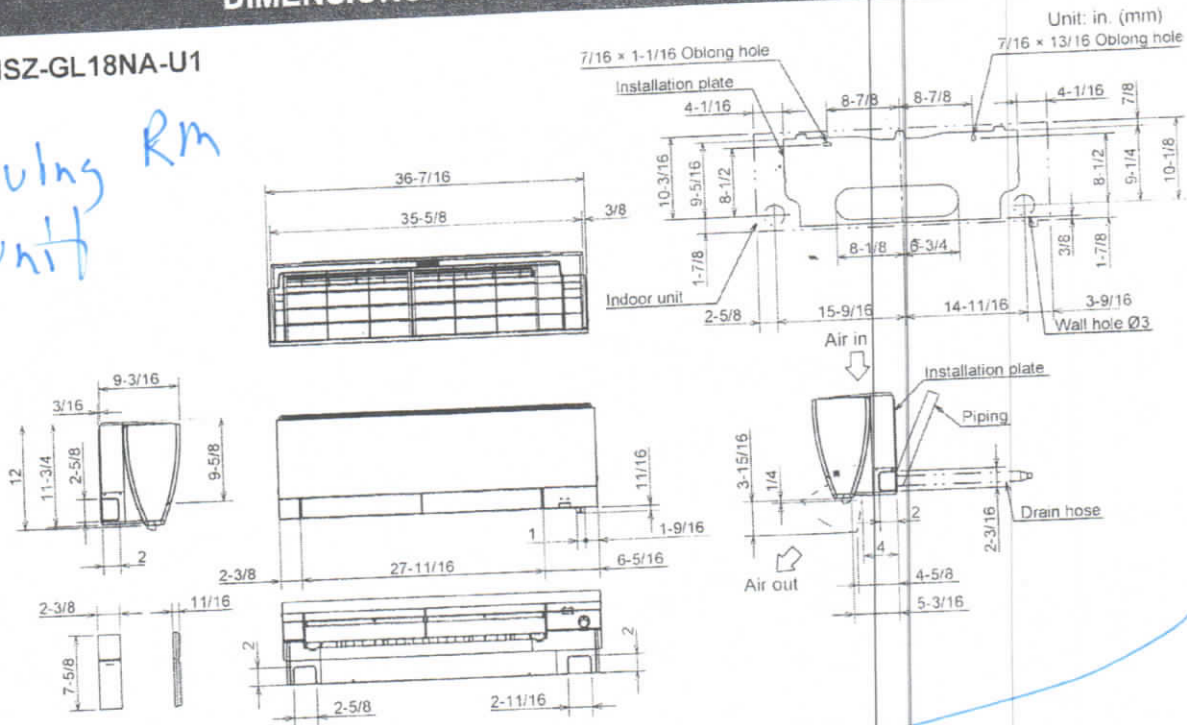


DIMENSIONS: MSZ-GL18NA-U1 & MUZ-GL18NA-U1

MSZ-GL18NA-U1

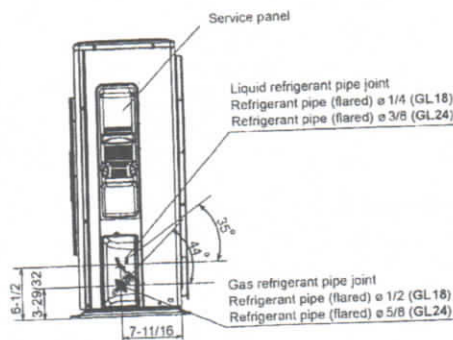
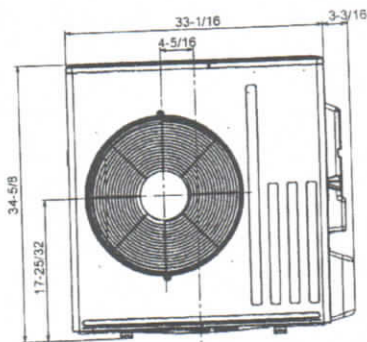
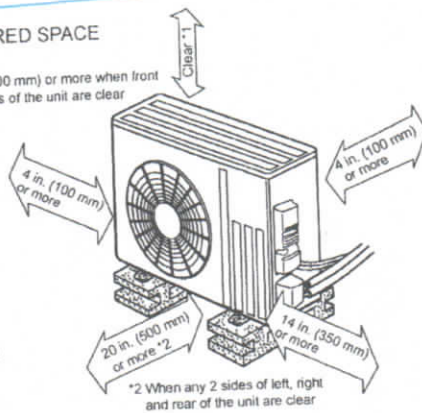
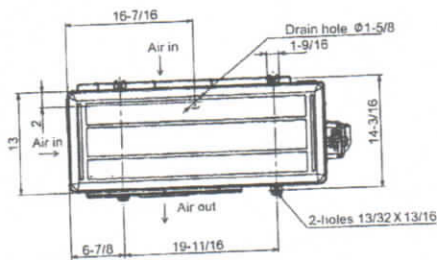
Using Rm Unit



MUZ-GL18NA-U1

REQUIRED SPACE

*1 20 in. (500 mm) or more when front and sides of the unit are clear



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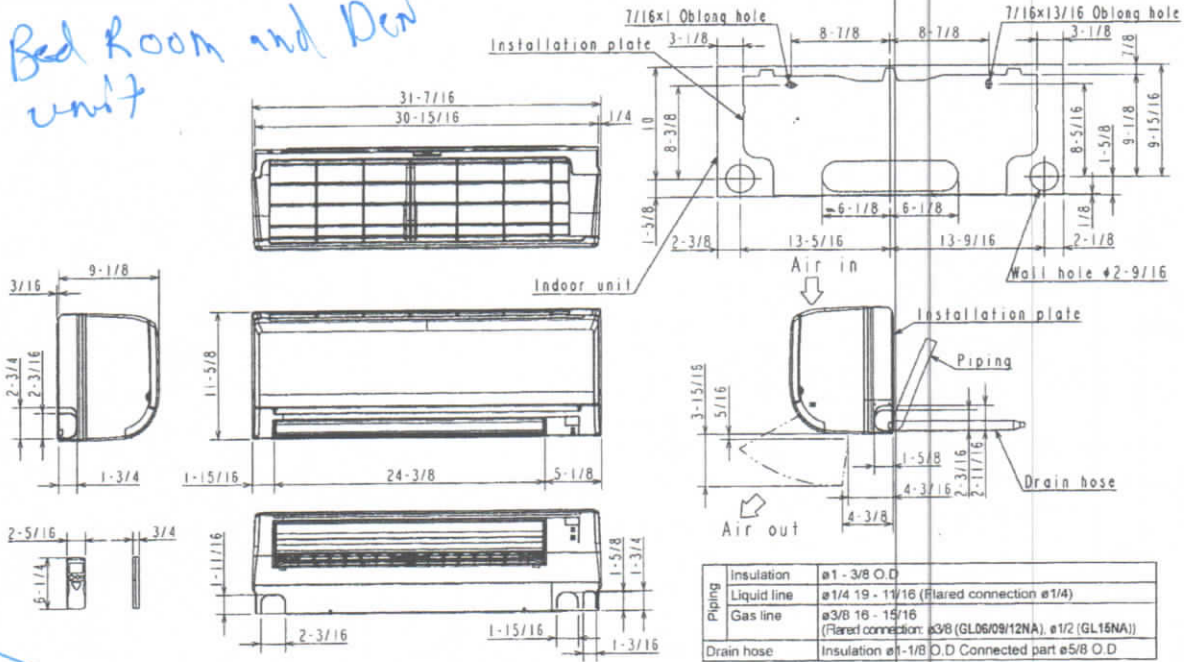


DIMENSIONS: MSZ-GL09NA-U1 & MUZ-GL09NA-U8

MSZ-GL09NA-U1

Bed Room and Den unit

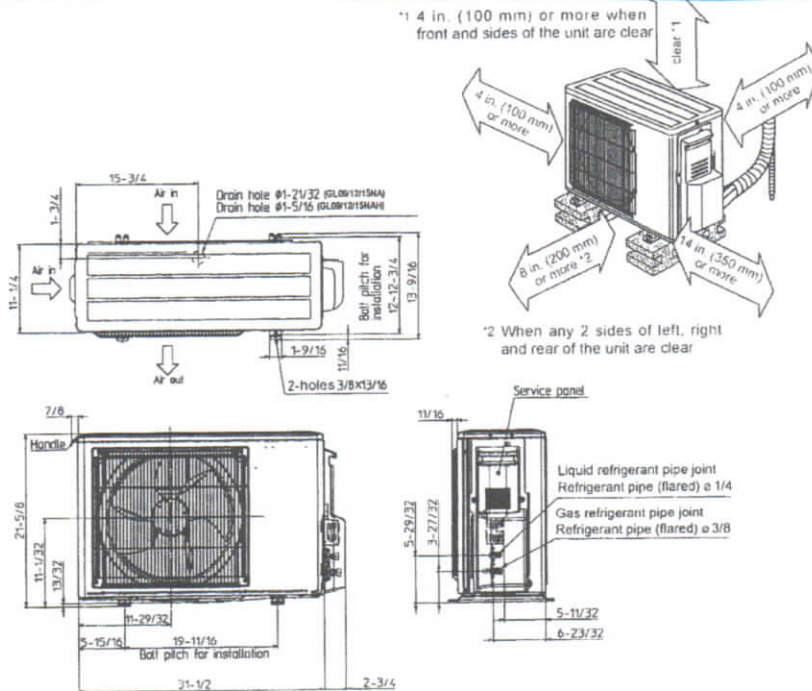
Unit: in. (mm)



MUZ-GL09NA-U8

REQUIRED SPACE

Unit: in. (mm)



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M-SERIES

SUBMITTAL DATA: MSZ-GL09NA-U1 & MUZ-GL09NA-U8

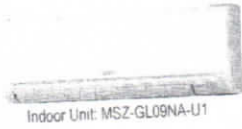


9,000 BTU/h WALL-MOUNTED HEAT PUMP SYSTEM

Job Name:

Date:

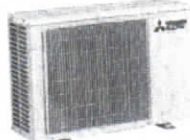
System Reference:



Indoor Unit: MSZ-GL09NA-U1



Wireless Remote Controller



Outdoor Unit: MUZ-GL09NA-U8

ACCESSORIES:

Indoor Unit

- Condensate Pump (BlueDiamond X87-711/721; 115/230V)
- Condensate Pump (Sauermann SI30-115/230; 115/230V)
- Anti-Allergy Enzyme Filter (MAC-408FT-E)
- Drain Pan Level Sensor (DPLS2)

Outdoor Unit

- Outdoor Mounting Pad (ULTRILITE1)
- Drain Pan Heater (MAC-640BH-U)
- 3-1/4" Mounting Base [Pair] (DSD-400P)
- Drain Pan Socket (MAC-860DS)
- Air Outlet Guide (MAC-889SG)
- Wall Mounting Bracket (QSWB2000M-1)

Controls

- Wireless Controller (MHK1)
- Wired Remote Controller PAR-31MAA (Requires MAC-333IF-E)
- Wireless Interface for kumo cloud™ (PAC-WHS01WF-E)
- Thermostat Interface (PAC-US444CN-1)

SPECIFICATIONS:

Rated Conditions (Capacity / Input)		
Cooling ¹	Btu/h / W	9,000 / 585
Heating at 47° F ²	Btu/h / W	10,900 / 720

Capacity Range	Minimum		Maximum	
	Btu/h	3,600	Btu/h	12,200
Cooling ¹	Btu/h	4,500	Btu/h	14,100
Heating at 47° F ²	Btu/h	-	Btu/h	9,400
Heating at 17° F ³	Btu/h	-	Btu/h	7,600
Heating at 5° F ⁴	Btu/h	-	Btu/h	-

¹ Cooling | Indoor: 30° F (27° C) DB / 67° F (19° C) WB, Outdoor: 95° F (35° C) DB / 75° F (24° C) WB
² Heating at 47° F | Indoor: 70° F (21° C) DB / 60° F (16° C) WB, Outdoor: 47° F (8° C) DB / 43° F (6° C) WB
³ Heating at 17° F | Indoor: 70° F (21° C) DB / 60° F (16° C) WB, Outdoor: 17° F (-8° C) DB / 15° F (-9° C) WB
⁴ Heating at 5° F | Indoor: 70° F (21° C) DB / 60° F (16° C) WB, Outdoor: 5° F (-15° C) DB / 5° F (-15° C) WB
 * Rating Conditions per AHRI Standard.

Operating Conditions (Indoor Intake Air Temp.) (Max./ Min.)

Cooling ²	90° F (32° C) DB / 67° F (19° C) DB
Heating	80° F (27° C) DB / 70° F (21° C) DB

Operating Conditions (Outdoor Intake Air Temp.) (Max./ Min.)

Cooling ⁵	115 F (46° C) DB / 14° F (-10° C) DB
Heating	75° F (24° C) DB / -4° F (-20° C) DB**

¹ Applications should be restricted to comfort cooling only, equipment cooling applications are not recommended for low ambient temperature conditions.
² System cuts out at -9° F (-27° C) to avoid thermistor error and automatically restarts at -4° F (-20° C).

AHRI Efficiency Ratings

SEER / HSPF	24.6 / 12.8
COP at 47° F / 17° F	4.44 / 3.3

Energy Star® Yes

ENERGY STAR products are third-party certified by an EPA-recognized Certification Body.

Specifications are subject to change without notice.

Electrical Power Requirements 208 / 230V, 1-Phase, 60 Hz

Minimum Circuit Ampacity (MCA)

Indoor / Outdoor A 1 / 9

Indoor Unit

Blower Motor (ECM)	FLA	0.76
Blower Motor Output	W	30
SHF / Moisture Removal		0.820 / 1.5 pt./h
Field Drainpipe Size O.D.	In.(mm)	5/8 (15)

Outdoor Unit

Compressor		DC INVERTER-driven Twin Rotary
Fan Motor (ECM)	FLA	0.76

Airflow Rate (Quiet - Lo - Med - Hi - Super Hi)

Indoor (Cooling)	DRY	CFM	145-170-237-321-399
	WET		109-134-201-286-364
Indoor (Heating)	DRY	145-170-237-321-406	
		1,229 / 1,172	

Sound Pressure Level (Quiet - Lo - Med - Hi - Super Hi)

Indoor	Cooling	dB(A)	19-22-30-37-43
	Heating		19-22-30-37-43
Outdoor	Cooling	48	
	Heating	50	

External Dimensions

Indoor (H x W x D)	In.(mm)	11-5/8 x 31-7/16 x 9-1/8 (295 x 798 x 232)
Outdoor (H x W x D)	In.(mm)	21-5/8 x 31-1/2 x 11-1/4 (550 x 800 x 285)

Net Weight

Indoor	Lbs.(kg)	22 (10)
Outdoor	Lbs.(kg)	81 (37)

External Finish

Indoor	Munsell 1.0Y 9.2 / 0.2
Outdoor	Munsell No. 3Y 7.8 / 1.1

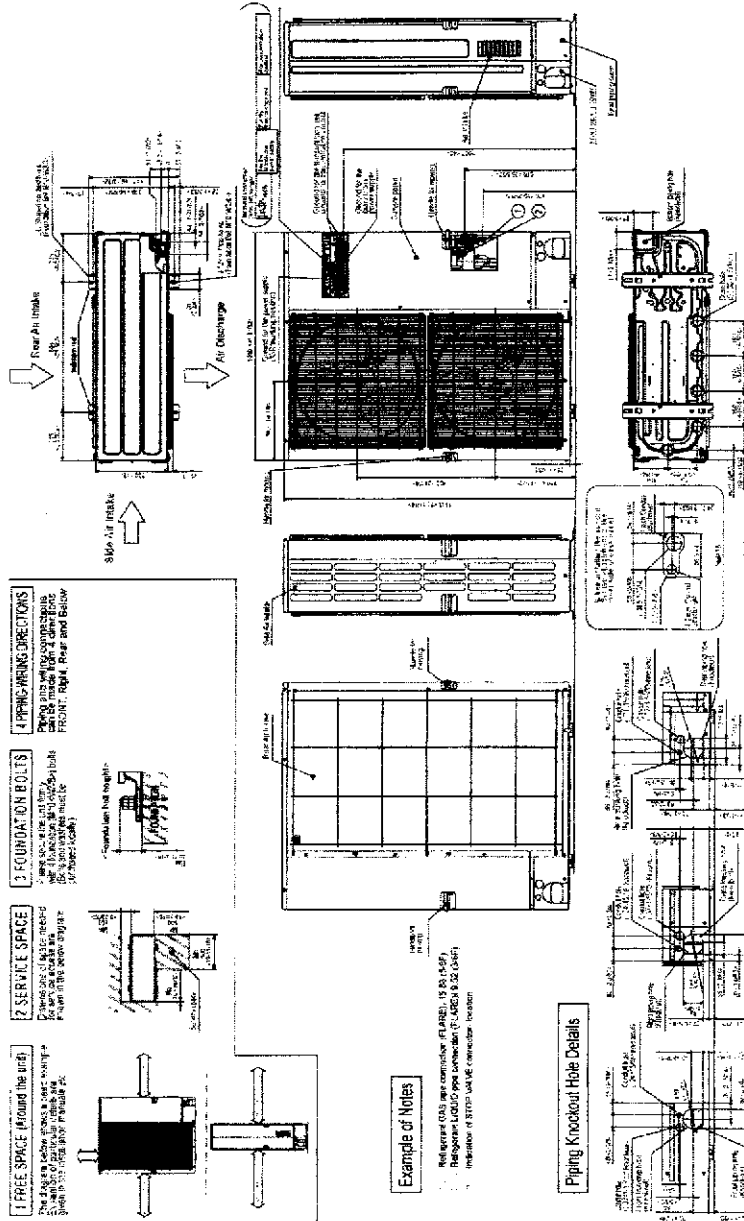
Refrigerant R410A; 2 lb. 9 oz.

Refrigerant Piping (Flared)

Liquid (High Pressure)	In.(mm)	1/4 (6.35)
Gas (Low Pressure)	In.(mm)	3/8 (9.52)
Max. Total Refrigerant Pipe Length (Height Diff.)	Ft. (m)	40 (12)
Max. Total Refrigerant Pipe Length (Length.)	Ft. (m)	65 (20)

DIMENSIONS: MXZ-5C42NAHZ

Unit: mm <in>



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Job Name:

Date:

System Reference:

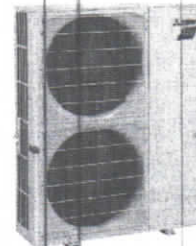
Condenser

GENERAL FEATURES

- Quiet operation
- Built-in base pan heater to prevent ice in drain pan
- Limited warranty: five years parts and seven years compressors

ACCESSORIES

- Three-port Branch Box (PAC-MKA30BC)
- Five-port Branch Box (PAC-MKA50BC)
- Distribution Pipe for Flare Connection (MSDD-50AR; necessary for installing two branch boxes)
- Distribution Pipe for Braze Connection (MSDD-50BR; necessary for installing two branch boxes)
- 3/8" x 1/2" Port Adapter (MAC-A454JP)
- 1/2" x 3/8" Port Adapter (MAC-A455JP)
- 1/2" x 5/8" Port Adapter (MAC-A456JP)
- 1/4" x 3/8" Port Adapter (PAC-493PI)
- 3/8" x 5/8" Port Adapter (PAC-SG76RJ)
- Airflow Guide (PAC-SH96SG-E)



Outdoor Unit, MXZ-5C42NAHZ

(For data on specific indoor units, see the MXZ-C Technical and Service Manual.)

Specifications			Model Name
Unit Type			MXZ-5C42NAHZ
Cooling* (Non-ducted / Ducted)	Rated Capacity	Btu/h	42,000 / 42,000
	Capacity Range	Btu/h	6,000 - 42,000
	Rated Total Input	W	3,130 / 3,890
Heating at 47°F* (Non-ducted / Ducted)	Rated Capacity	Btu/h	48,000 / 48,000
	Capacity Range	Btu/h	7,200 - 48,000
	Rated Total Input	W	3,430 / 4,350
Heating at 17°F* (Non-ducted/Ducted)	Rated Capacity	Btu/h	35,800 / 36,600
	Maximum Capacity		48,000 / 48,000
	Rated Total Input	W	3,650 / 4,290
Heating at 5°F*	Maximum Capacity	Btu/h	48,000
Energy Star® (ENERGY STAR products are third-party certified by an EPA-recognized Certification Body.)			Yes
Electrical Requirements	Power Supply	Voltage, Phase, Hertz	208 / 230V, 1-Phase, 60 Hz
	Recommended Fuse/Breaker Size	A	50
	MCA	A	42
Voltage	Indoor - Outdoor S1-S2	V	AC 208 / 230
	Indoor - Outdoor S2-S3	V	DC ±24
Compressor			Hermetic
Fan Motor (ECM)		F.L.A.	0.4+0.4
Sound Pressure Level	Cooling	dB(A)	50
	Heating		54
External Dimensions (H x W x D)		in / mm	52-11/16 x 41-11/32 x 13+1 1338 x 1050 x 330+25
Net Weight		Lbs / kg	276 / 125
External Finish			
Refrigerant Pipe Size O.D. — Eight Ports	Liquid (High Pressure)	in / mm	3/8 / 9.52
	Gas (Low Pressure)		5/8 / 15.88
Max. Refrigerant Line Length		Ft / m	492 (150)
Max. Piping Length for Each Indoor Unit		Ft / m	262 (80)
Max. Refrigerant Pipe Height Difference	If IDU is Above ODU	Ft / m	131 (40)
	If IDU is Below ODU		164 (50)
Connection Method			Flared/Flared
Refrigerant			R410A

* Rating Conditions per AHRI Standard:

Cooling | Indoor: 80°F (27°C) DB / 67°F (19°C) WB
Cooling | Outdoor: 95°F (35°C) DB / 75°F (24°C) WB

Heating at 47°F | Indoor: 70°F (21°C) DB
Heating at 47°F | Outdoor: 47°F (6°C) DB / 43°F (6°C) WB

Heating at 17°F | Indoor: 70°F (21°C) DB
Heating at 17°F | Outdoor: 17°F (-8°C) DB / 15°F (-9°C) WB

MXZ-5C42NAHZ SYSTEM DESIGN

Outdoor unit		4.5HP	
Rated capacity (kBTU/h)	Cooling	42	
	Heating	48	
Refrigerant		R410A	
Connectable indoor unit	Capacity	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 5 units	
Total system wide capacity		29 to 130% of outdoor unit capacity (12 to 54.6 kBTU/h)	
Connectable branch box	Number of units	1 or 2 units	



Connectable indoor unit finishes (Heat pump inverter type)		Model name	Capacity class [kBTU/h]							
Model type			06	09	12	15	18	24	30	36
Wall mounted	Deluxe	MSZ-FE09/12/18NA		●	●		●			
		MSZ-FH09/12/15NA		●	●	●				
	Standard	MSZ-GE06/09/12/15/18/24NA	●	●	●	●	●	●		
Ceiling concealed	Low static pressure	SEZ-KD09/12/15/18NA		●	●	●	●			
	Middle static pressure	PEAD-A24/30/36AA4						●	●	●
4-way ceiling cassette	2 by 2 type	SLZ-KA09/12/15NA		●	●	●				
	Standard	PLA-A12/18/24/30/36BA4			●		●	●	●	●
Floor standing		MFZ-KA09/12/18NA		●			●			
Multi-position		MVZ-A12/18/24/30/36AA4			●		●	●	●	

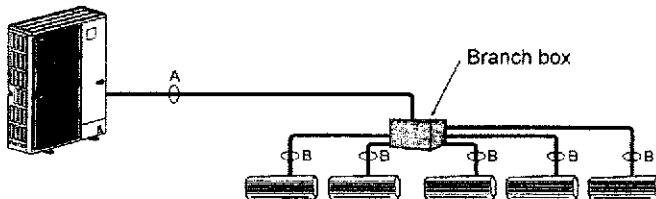


Branch box	PAC-MKA50SC	PAC-MKA30SC
Number of branches (indoor unit that can be connected)	5 branches (MAX. 5 units)	3 branches (MAX. 3 units)

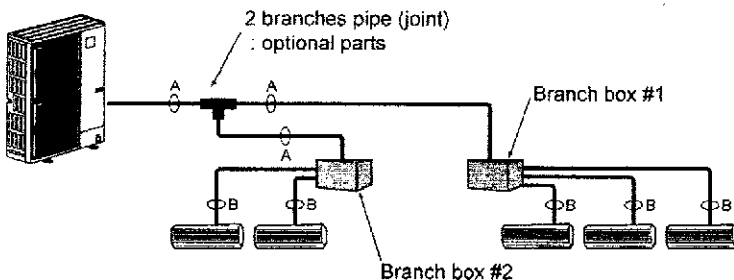
Note: A maximum of 2 branch boxes can be connected to 1 outdoor unit.

Branch Box Combinations	
Three-port	Five-port
1	0
0	1
1	1
2	0
0	2 (Up to 8 IDU)

- If Using One Branch Box
Flare connection employed (No brazing)



- If Using Two Branch Boxes



■ Installation procedure (2 branches pipe (joint))
Refer to the installation manuals of MSDD-5GAR-E and MSDD-40BR-E.

Piping connection size

	A	B
Liquid	φ9.52 mm (3/8 inch)	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	φ15.88 mm (5/8 inch)	