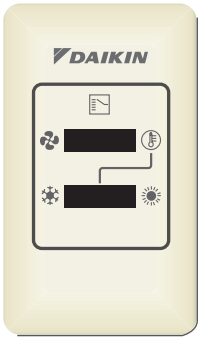
Part 4
Outdoor Units

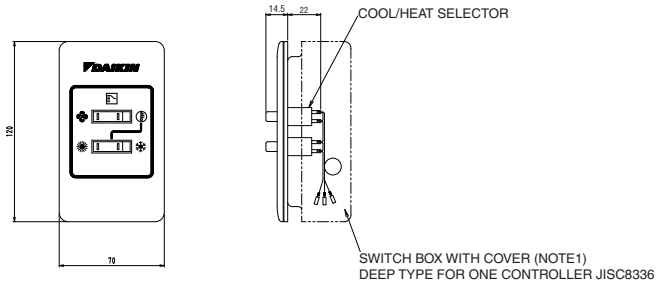
1. Cool / Heat Selector

1.1 KRC19-26A

This remote controller has a switch to enable selection of a heating or cooling operation for each outdoor unit or system. The controller can also be used to switch to the fan operation mode, for example, during moderate weather season.



Dimensions **Unit:mm**



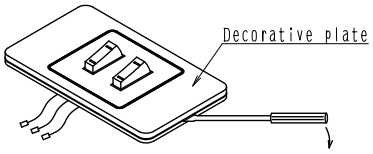
NOTE) 1. THE SWITCH BOX IS NOT ATTACHED.

C: 3D032519A

- Basically, this remote controller is not necessary for the Cooling/Heating VRV System and the Cooling Only VRV System.
- When the BS unit that automatically selects either cooling or heating operation mode is used in the manual mode, this remote controller can be connected to the BS unit.

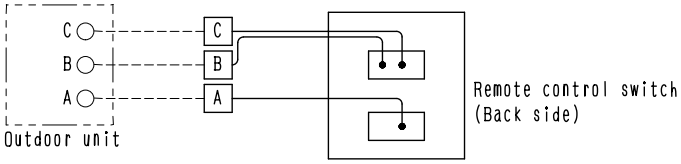
Installation Point

1. Remove the decorative plate.
   - Insert a (−) screwdriver in the gap between the concaved part of the decorative plate and the remote control switch to open it.

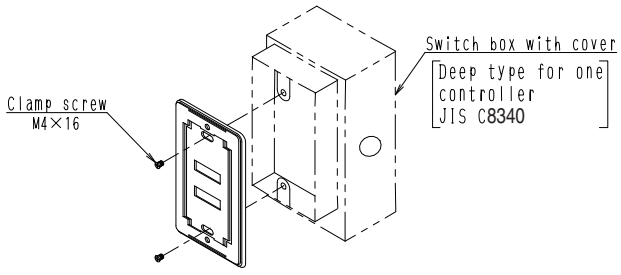


2. Provide the wiring between the remote control switch and the outdoor unit.
   - Connect terminals (A, B, C) on the back side of the remote control switch to terminals (A, B, C) on the outdoor unit.
   - ---shows field wiring.
   - Use the wires shown below ror the wiring.

Kind of wires	Polyvinyl chloride insulated and sheathed cords or cables.
Size of wires	0.75 ~ 1.25mm²



3. Attach the remote control switch to the switch box (To be obtained locally) as shown below.



4. Attach the decorative plate.

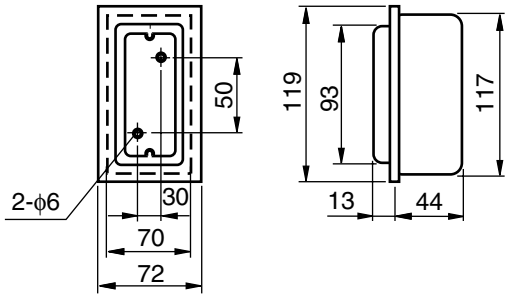
Note; The switch box and connecting wires are not attached.

C: 3P077945A

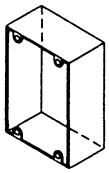
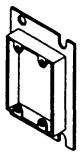
2. Fixing Box

2.1 KJB111A

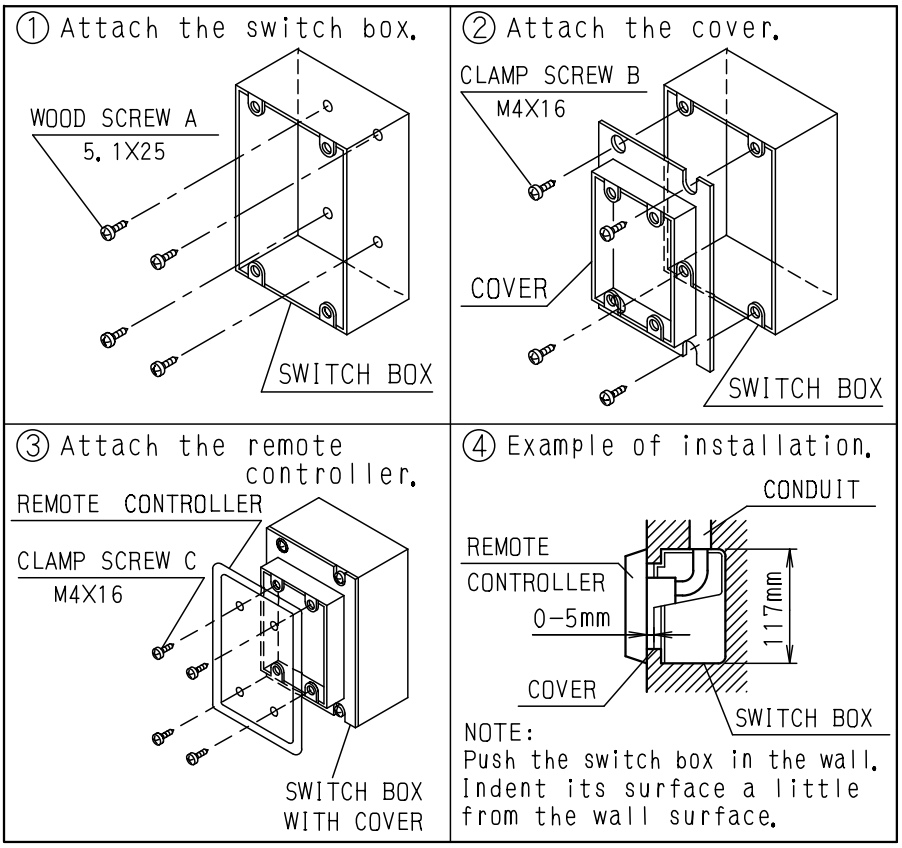
Dimensions **Unit:mm**



Component parts

Name		Switch box	Cover	Wood screw A (5.1×25)	Clamp screw B (M4×16)
Q'ty	KJB111A	1	1	2	2
Shape					

Installation



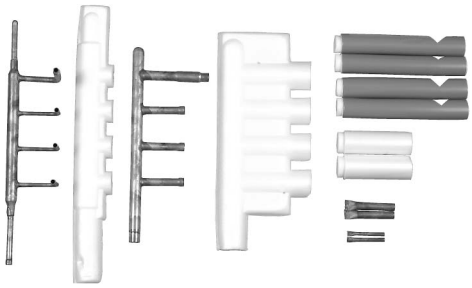
NOTES: 1. Refer to the installation of each remote controller.
2. Do not bind the lead wires for switch box with the power cord and the link wiring.
This may cause erratic operation.
3. The remote controller and the clamp screw C are one kit.
They are sold separately and attach to the switch box.

C: 3PA34878C

3. REFNET Header

3.1 KHRJ26K11·17·18·37·40H

KHRJ26K11H



REFNET HEADER INSTALLATION MANUAL
(Except for JAPAN) KHRJ26K11H・17H

■ This kit includes the following parts.

KIT NAME	PARTS NAME						
	GAS SIDE HEADER	LIQUID SIDE HEADER	PLUGGING TUBES	INSULATION	INSULATION FOR GAS SIDE ENCLOSED PIPING	INSULATION FOR LIQUID SIDE PIPING	TAPE
KHRJ 26K11H	One header	One header	2 each for gas/ liquid sides	1 each for gas/ liquid sides	2 pcs.	4 pcs.	16 Sheets
KHRJ 26K17H	One header	One header	6 each for gas/ liquid sides	1 each for gas/ liquid sides	6 pcs.	8 pcs.	30 Sheets

SELECTION PROCEDURE

❶ Total the capacity of indoor unit in the downstream from it's HEADER and select the kit from the table below.

INDOOR UNIT TOTAL CAPACITY	KIT NAME
Less than 100	KHRJ26K11H
Not less than 100	KHRJ26K17H

・For the model name of indoor unit which can be combined, refer to the installation manual attached to the product.

(Find the indoor unit capacity by calculation from the nominal capacity indicated on the model name according to the table below.)

INDOOR UNIT NOMINAL CAPACITY	CAPACITY
Type 20	20
Type 25	25
Type 32	31.25
Type 40	40
Type 50	50
Type 63	62.5
Type 80	80
Type 100	100
Type 125	125

❷ According to the following procedure, determine the piping size at each part.

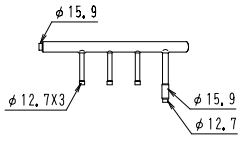
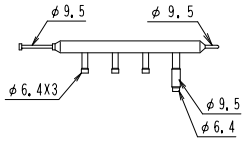
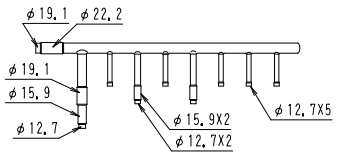
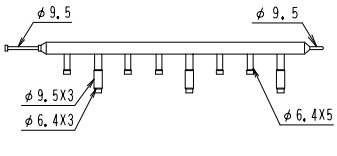
・Connect between the outdoor unit and the first HEADER according to the outdoor unit connection size.

OUTDOOR UNIT	GAS PIPE SIZE	LIQUID PIPE SIZE
Type 5 (HP)	φ19.1	φ9.5

・Connect between the HEADER and indoor unit according to the indoor unit connection size.

INDOOR UNIT NOMINAL CAPACITY	GAS PIPE SIZE	LIQUID PIPE SIZE
Types 20・25・32・40	φ12.7	φ6.4
Types 50・63・80	φ15.9	φ9.5
Types 100・125	φ19.1	φ9.5

The outlet/inlet piping sizes of refrigerant branching header of each kit are as shown in the table below.

KIT NAME	GAS SIDE HEADER	LIQUID SIDE HEADER
KHRJ26K11H		
KHRJ26K17H		

3P234615

INSTALLATION PROCEDURE

❶ For the outlet/inlet pipings which can be connected in several piping sizes, cut the connections of piping diameter to be used with a pipe cutter according to the left lower table.

❷ For non-connected outlet/inlet pipings at the indoor unit side for refrigerant branching, install the supplied plugging tube.

❸ When connecting the field piping to outlet/inlet piping part B at the outdoor unit of liquid side header:
- Cut part B as shown at right with a pipe cutter and install it to part A.
- Connect the flared field piping to part B.

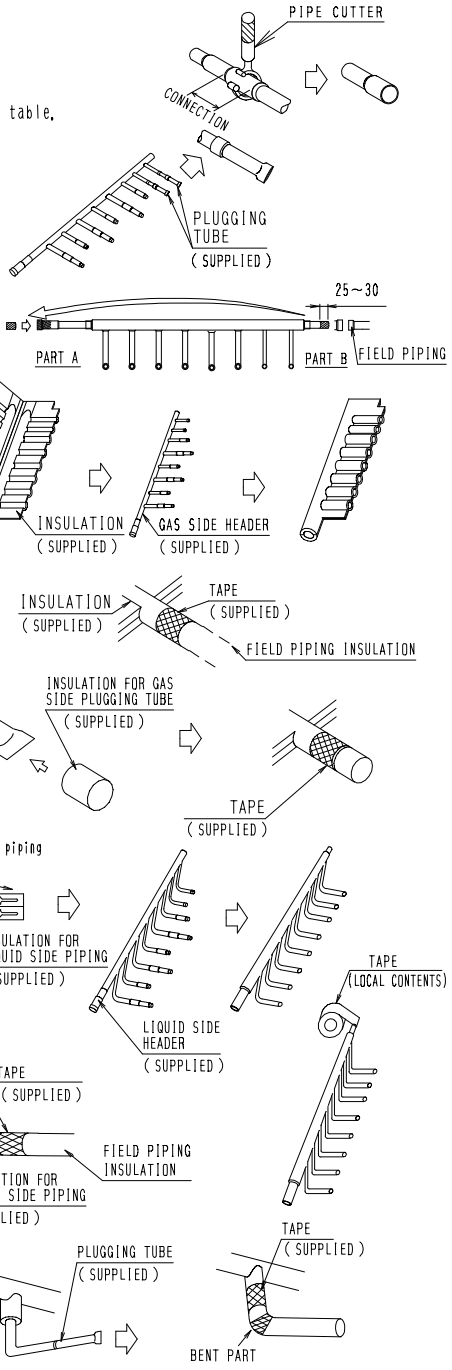
❹ HEADER HEAT INSULATION

GAS SIDE HEADER:

(1) Insulate the gas side header with the supplied insulation.

(2) Seal the supplied insulation and field piping insulation joint with the supplied tape.

(3) Seal the plugging tube mounting part with the field supplied tape after installing the supplied insulation for the supplied plugging tube.

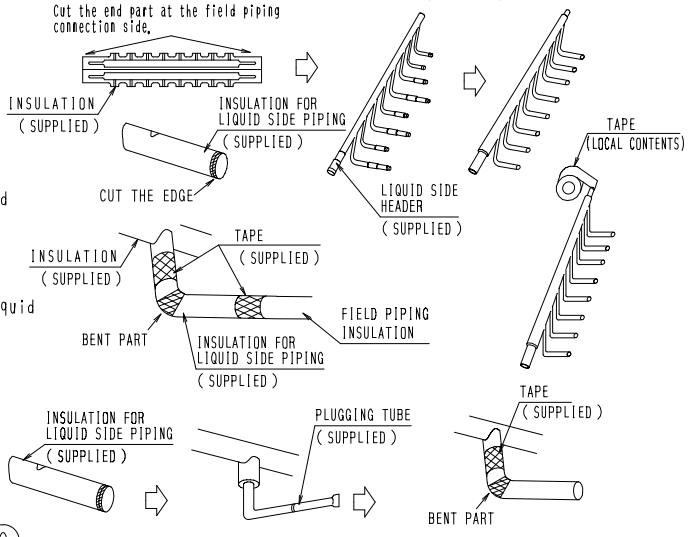


LIQUID SIDE HEADER:

(1) When cooling operation may be performed in outdoor temperature 15℃ or under also insulate the liquid side header.

(2) Seal the supplied insulation and liquid side piping insulation joint, the supplied liquid side piping insulation bending part, and the joint with the field piping insulation, using the supplied tape. Seal the supplied insulation with a vinyl tape, for example.

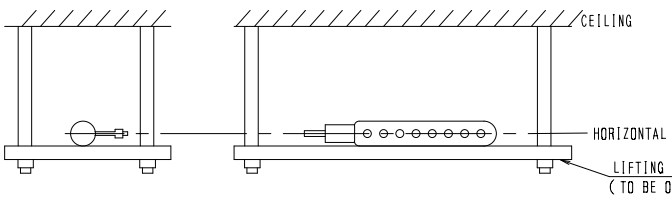
(3) Using the supplied tape, seal the plugging tube mounting part after installing the insulation for liquid side piping (supplied).



INSTALLATION OF HEADER FOR REFRIGERANT BRANCHING

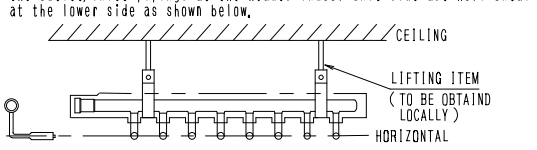
GAS SIDE HEADER:

- Place the header on the pedestal and install it so that it is horizontal.



LIQUID SIDE HEADER:

- Suspend the header from the ceiling, and be sure to install it so that the outlet/inlet pipings at the header indoor unit side are horizontal at the lower side as shown below.

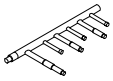
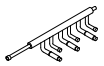
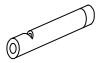
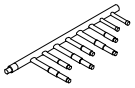
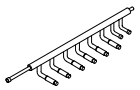
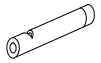
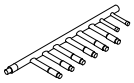
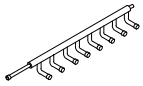


3P234615

REFNET HEADER INSTALLATION MANUAL (Except for JAPAN)

KHRJ26K18H・37H・40H

■ This kit includes the following parts.

KIT NAME	PARTS NAME						
	GAS SIDE HEADER	LIQUID SIDE HEADER	PLUGGING TUBES	INSULATION FOR HEADER	INSULATION FOR SUCTION GAS AND DISCHARGE GAS SIDE ENCLOSED PIPING	INSULATION FOR LIQUID SIDE PIPING	TAPE
KHRJ 26K18H 6 branches			 4 each for gas/ liquid sides	 1 each for gas/ liquid sides	 4 PCS.	 6 PCS.	 23 Sheets
KHRJ 26K37H 8 branches			 6 each for gas/ liquid sides	 1 each for gas/ liquid sides	 6 PCS.	 8 PCS.	 30 Sheets
KHRJ 26K40H 8 branches			 6 each for gas/ liquid sides	 1 each for gas/ liquid sides	 6 PCS.	 8 PCS.	 45 Sheets

SELECTION PROCEDURE

❶ Total the capacity of indoor unit in the downstream from it's HEADER and select the kit from the table below.

INDOOR UNIT TOTAL CAPACITY	KIT NAME
Less than 160	KHRJ26K18H (Maximum of 6 branching)
Not less than 160, less than 330	KHRJ26K37H (Maximum of 8 branching)
Not less than 330, less than 640	KHRJ26K40H (Maximum of 8 branching)+KHRJ26K40HP

・VRV PLUS series, use KHRJ26K40H+KHRJ26K40HP

・For the model name of indoor unit which can be combined, refer to the installation manual attached to the product.

(Find the indoor unit capacity by calculation from the nominal capacity indicated on the model name according to the below.)

INDOOR UNIT NOMINAL CAPACITY	CAPACITY
Type 20	20
Type 25	25
Type 32	31.25
Type 40	40
Type 50	50
Type 63	62.5
Type 80	80
Type 100	100
Type 125	125
※Type 200	200
※Type 250	250

※ Indoor unit(Type 200, 250) can not be connected the HEADER.

※ Connected indoor unit(Type 200, 250) after branching at upstream HEADER.

❷ According to the following procedure, determine the piping size at each part.

・Connect between the outdoor unit and the first HEADER according to the outdoor unit connection size.

OUTDOOR UNIT	LIQUID PIPE SIZE	GAS PIPE SIZE
Type 8(HP)	φ12.7	φ25.4
Type 10(HP)	φ12.7	φ28.6

・Connect between the outdoor unit and the first HEADER according to the outdoor unit connection size.

OUTDOOR SYSTEM NAME	LIQUID PIPE SIZE	GAS PIPE SIZE
RXY16K	φ15.9	φ34.9
RXY18～20K	φ19.1	φ34.9
RXY24K	φ19.1	φ41.3

・Connect between the HEADER and indoor unit according to the indoor unit connection size.

INDOOR UNIT NOMINAL CAPACITY	LIQUID PIPE SIZE	SUCTION GAS PIPE SIZE
Type 20・25・32・40	φ6.4	φ12.7
Type 50・63・80	φ9.5	φ15.9
Type 100・125	φ9.5	φ19.1

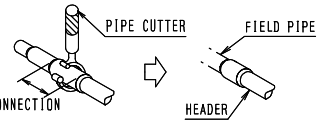
3P234616

INSTALLATION PROCEDURE

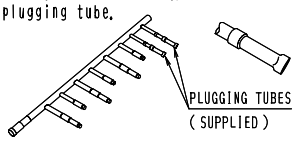
• The outlet/inlet piping sizes of refrigerant branching header of each kit are as shown in the table below.

KIT NAME	GAS SIDE HEADER	LIQUID SIDE HEADER
KHRJ26K18H	φ15.9 φ19.1 φ12.7X3 φ19.1 φ15.9 φ12.7 φ15.9X2 φ12.7X2	φ9.5 φ9.5 φ9.5X3 φ6.4X3 φ6.4X3
KHRJ26K37H	φ28.6 φ25.4 φ12.7×2 φ31.8 φ15.9×3 φ12.7×3 φ19.1X3 φ15.9×3 φ12.7×3	φ15.9 φ12.7 φ12.7 φ9.5X6 φ6.4X6 φ6.4X2
KHRJ26K40H	φ38.1 φ31.8 φ19.1×6 φ15.9×6 φ15.9×2	φ19.1 φ15.9 φ15.9 φ9.5X8

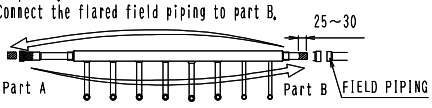
1) For the outlet/inlet pipings which can be connected in several piping sizes, cut the connections of piping diameter to be used with a pipe cutter.



2) For non-connected outlet pipings at the indoor unit side for refrigerant branching, install the supplied plugging tube.



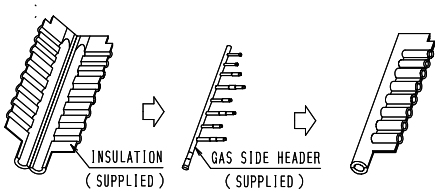
3) When connecting the field piping to inlet piping part B at the outdoor unit of liquid side header.
- Cut part B as shown with a pipe cutter and install it to part A.
- Connect the flared field piping to part B.



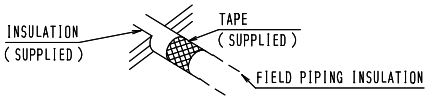
4)Heder heat insulation.

DISCHARGE/SUCTION GAS SIDE HEADER

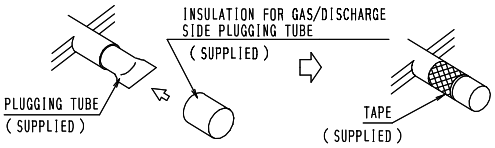
i) Insulate the discharge/suction gas side header with the supplied insulation.



ii)Seal the supplied insulation and field piping insulation junction with the field supplied tape.

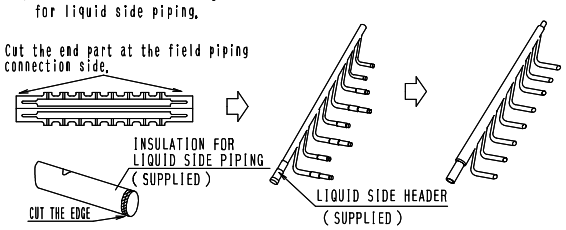


iii) Seal the plugging tube mounting part with the field supplied tape after installing the supplied insulation for the supplied plugging tube.

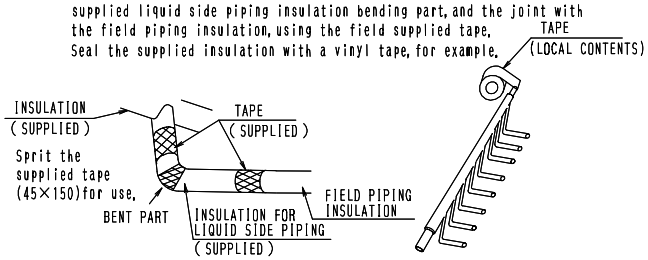


LIQUID SIDE HEADER

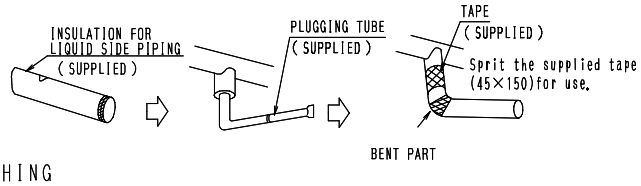
i) Insulate the header using the insulation for header and the insulation for liquid side piping.



ii) Seal the supplied insulation and liquid side piping insulation joint, the supplied liquid side piping insulation bending part, and the joint with the field piping insulation, using the field supplied tape. Seal the supplied insulation with a vinyl tape, for example.



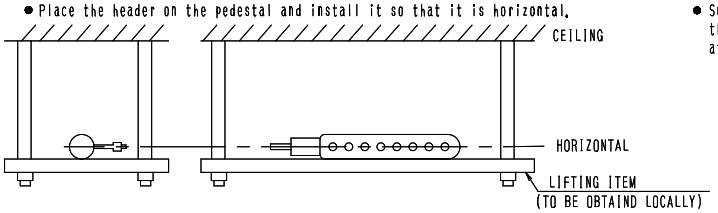
iii) Using the field supplied tape, seal the plugging tube mounting part after installing the insulation for liquid side piping (supplied).



5) INSTALLATION OF HEADER REFRIGERANT BRANCHING

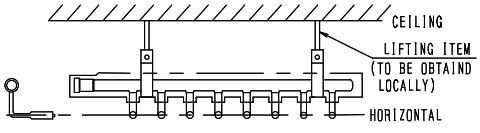
GAS SIDE HEADER

- Place the header on the pedestal and install it so that it is horizontal.



LIQUID SIDE HEADER

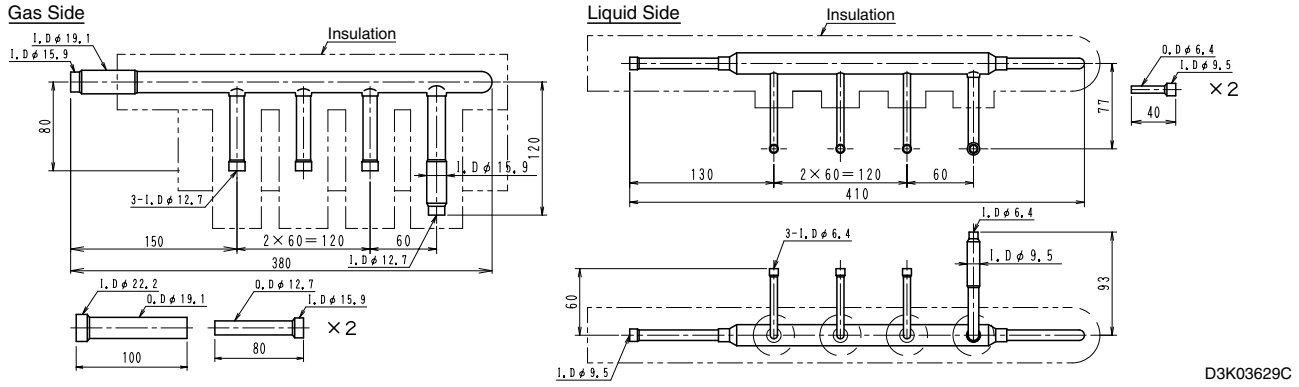
- Suspend the header from the ceiling, and be sure to install it so that the outlet/inlet pipings at the header indoor unit side are horizontal at the lower side as shown below.



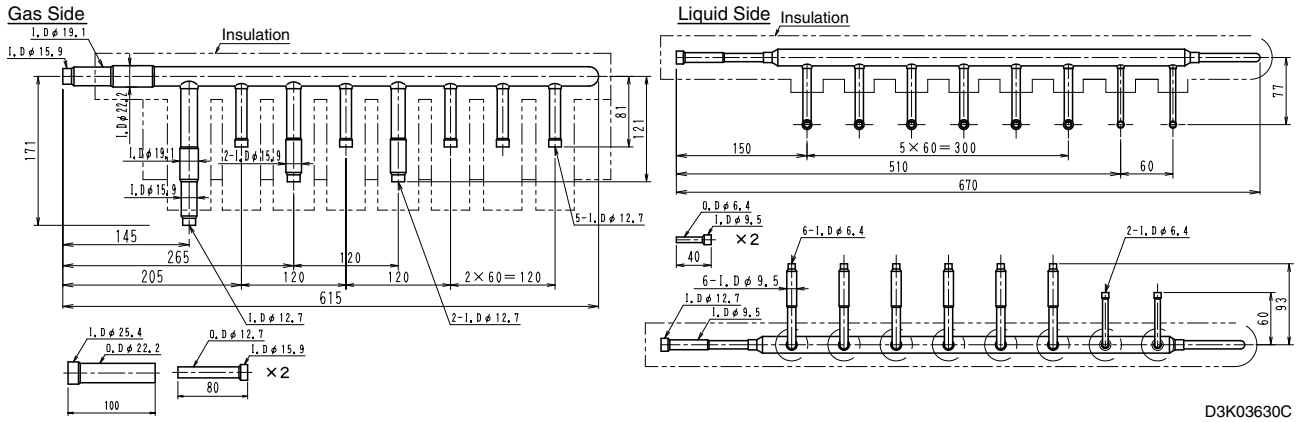
3P234616

3.2 KHRP26M22·33·72·73H

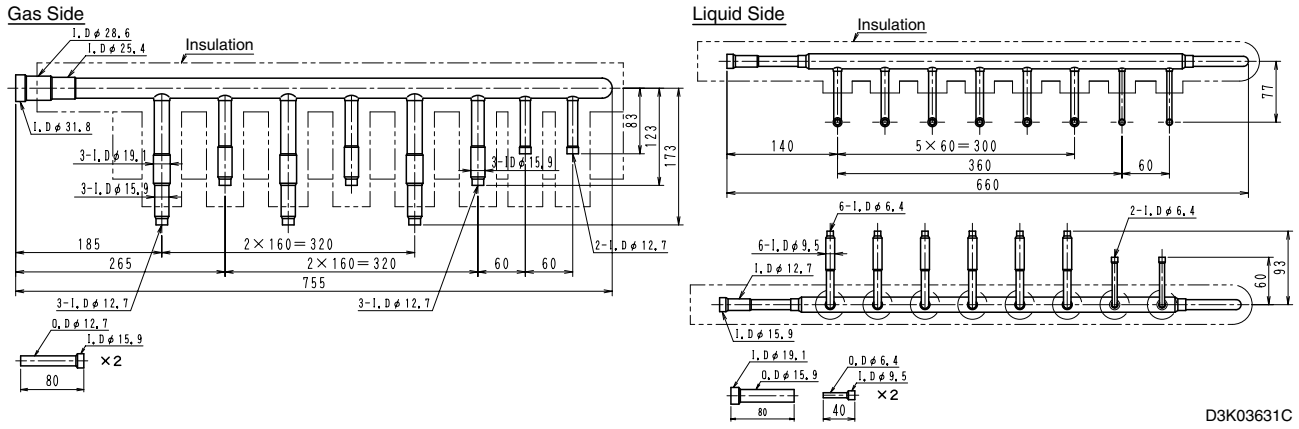
KHRP26M22H



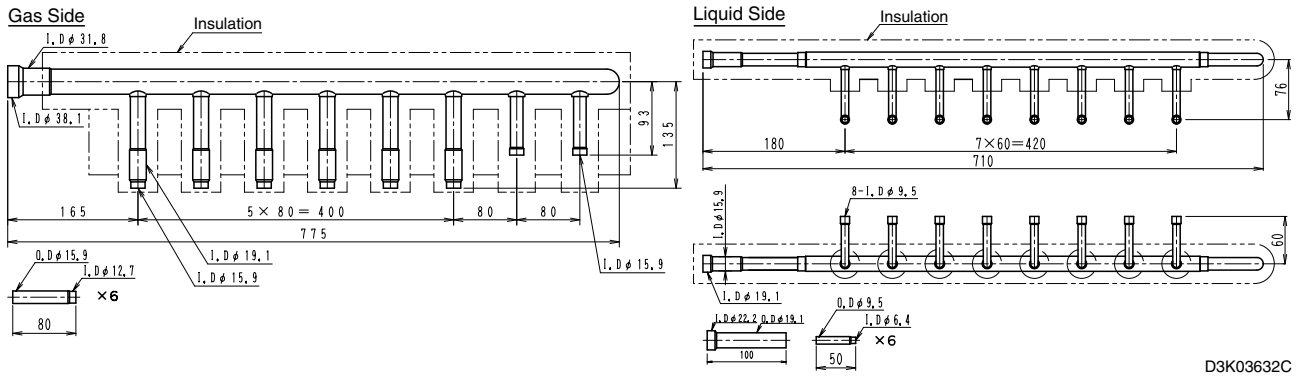
KHRP26M33H



KHRP26M72H



KHRP26M73H



Installation

■ THIS KIT INCLUDES THE FOLLOWING PARTS.

KIT NAME	SHAPE						
	GAS SIDE HEADER	LIQUID SIDE HEADER	PLUGGING TUBES	REDUCER	INSULATION FOR HEADER	INSULATION FOR GAS SIDE ENCLOSED PIPING	INSULATION FOR LIQUID SIDE PIPING
KHRP 26M22H 4branches	※ 1 pcs.	1 pcs.	2 each for gas/liquid sides	for gas sides (φ22.2)1pcs. (φ15.9)2pcs. for liquid sides (φ9.5) 2pcs.	1 each for gas/liquid sides	2 pcs.	4 pcs.
KHRP 26M33H 8branches	1 pcs.	1 pcs.	6 each for gas/liquid sides	for gas sides (φ25.4)1pcs. (φ15.9)2pcs. for liquid sides (φ9.5) 2pcs.	1 each for gas/liquid sides	6 pcs.	8 pcs.
KHRP 26M72H 8branches	1 pcs.	1 pcs.	6 each for gas/liquid sides	for gas sides (φ15.9) 2pcs. for liquid sides (φ19.1)1pcs. (φ9.5)2pcs.	1 each for gas/liquid sides	6 pcs.	8 pcs.
KHRP 26M73H 8branches	1 pcs.	1 pcs.	6 each for gas/liquid sides	6pcs. for gas sides(φ12.7) for liquid sides (φ6.4)6pcs. (φ22.2)1pcs.	1 each for gas/liquid sides	6 pcs.	8 pcs.

※…Make sure gas side header and liquid side header are for R410A. (Label for R410A is attached on each part.)

SELECTION PROCEDURE

According to the INSTALLATION MANUAL of outdoor unit.

INSTALLATION PROCEDURE

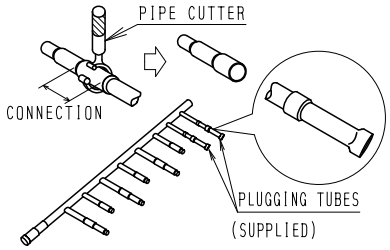
❶ The pipe size of each parts are shown below.

KIT NAME	GAS SIDE HEADER	LIQUID SIDE HEADER
KHRP26M22H 4branches	φ15.9 φ19.1 φ12.7X3 φ15.9 φ12.7	φ9.5 φ9.5 φ6.4X3 φ9.5 φ6.4
KHRP26M33H 8branches	φ15.9 φ19.1 φ22.2 φ19.1 φ15.9 φ12.7 φ15.9X2 φ12.7X2 φ12.7X5	φ12.7 φ9.5 φ9.5 φ9.5X6 φ6.4X6 φ6.4X2
KHRP26M72H 8branches	φ28.6 φ25.4 φ31.8 φ15.9×3 φ12.7×3 φ19.1X3 φ12.7×2 φ15.9×3 φ12.7×3	φ15.9 φ12.7 φ12.7 φ9.5X6 φ6.4X6 φ6.4X2
KHRP26M73H 8branches	φ38.1 φ31.8 φ19.1×6 φ15.9×6 φ15.9×2	φ19.1 φ15.9 φ15.9 φ9.5X8

3P113151C

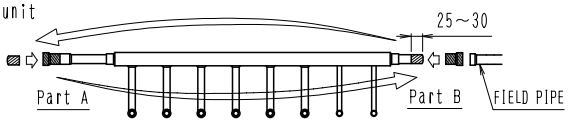
❷ For the outlet/inlet pipings which can be connected in several piping sizes, cut the connections of piping diameter to be used with a pipe cutter according to the left lower table.

NOTE) 1. Cut in the center of the connections.
2. PIPE SIDE REDUCER
ex)When connecting the field pipe(φ22.2) to inlet liquid side pipe of KHRP26M73H, use PIPE SIDE REDUCER.



❸ For non-connected outlet pipings at the indoor unit side for refrigerant branching, install the supplied plugging tube.

When connecting the field piping to inlet piping part B at the outdoor unit of liquid side header.
- Cut part B as shown with a pipe cutter and install it to part A.
- Connect the flared field piping to part B.



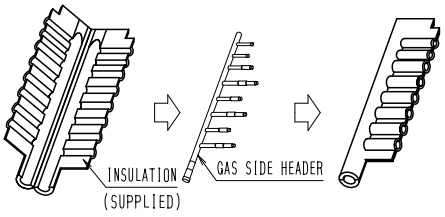
- Make sure to flow nitrogen gas through the pipe when brazing.

❹ Insulation of HEADER
- Be sure to insulate the gas and liquid side HEADER.

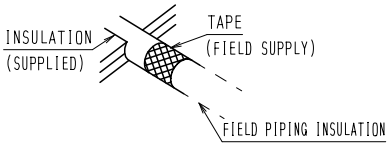
Note) The insulation of the refrigerant piping must be reinforced based on the environment of installation. Otherwise, dew may condensate on the surface of the insulation. For details, see Engineering Data.

GAS SIDE HEADER

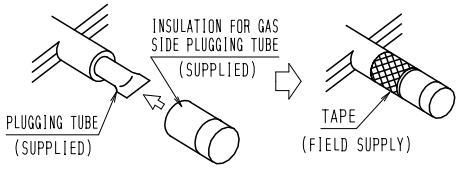
i)Insulate the gas side header with the supplied insulation.



ii)Seal the supplied insulation and field piping insulation junction with the field supplied tape.

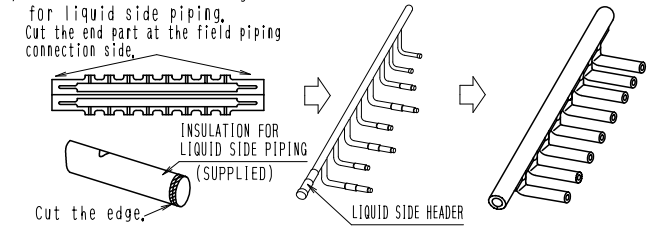


iii)Seal the plugging tube mounting part with the field supplied tape after installing the supplied insulation for the supplied plugging tube.

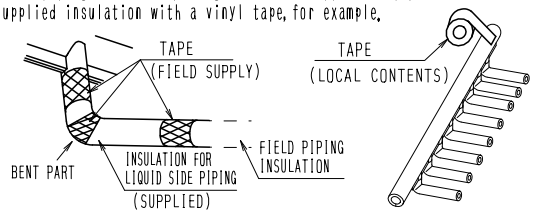


LIQUID SIDE HEADER

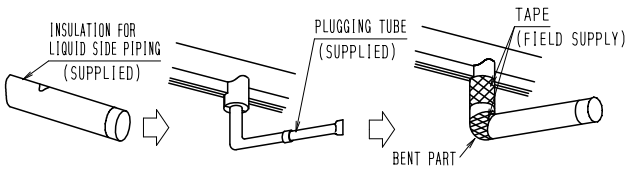
i) Insulate the header using the insulation for header and the insulation for liquid side piping.
Cut the end part at the field piping connection side.



ii) Seal the supplied insulation and liquid side piping insulation joint, the supplied liquid side piping insulation bending part, and the joint with the field piping insulation, using the field supplied tape. Seal the supplied insulation with a vinyl tape, for example.



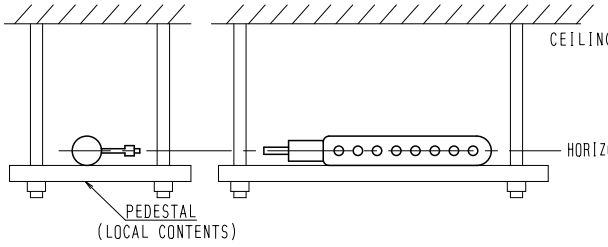
iii) Using the field supplied tape, seal the plugging tube mounting part after installing the insulation for liquid side piping (supplied).



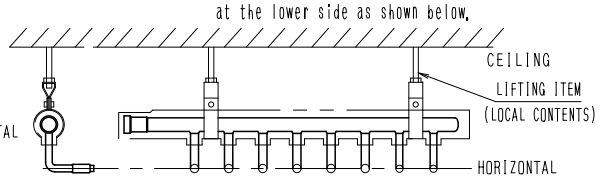
INSTALLATION PRECAUTIONS

- Do not apply extra force on the piping part. The brazed part may be damaged and it may result in gas leakage.

GAS SIDE HEADER
- Place the header on the pedestal and install it so that it is horizontal.



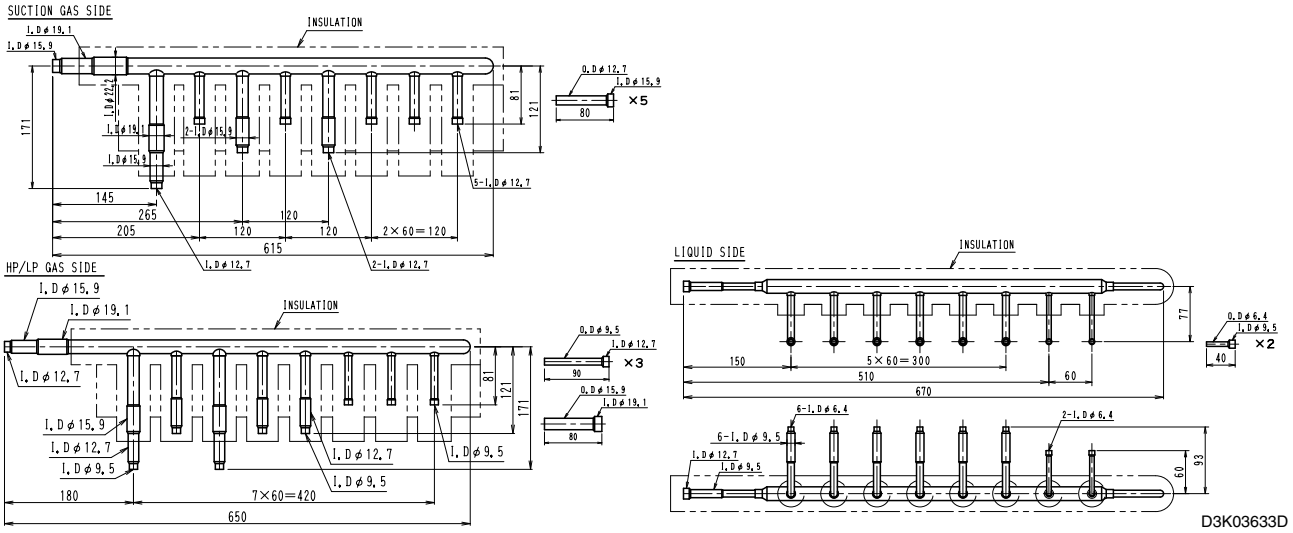
LIQUID SIDE HEADER
- Suspend the header from the ceiling, and be sure to install it so that the outlet/inlet pipings at the header indoor unit side are horizontal at the lower side as shown below.



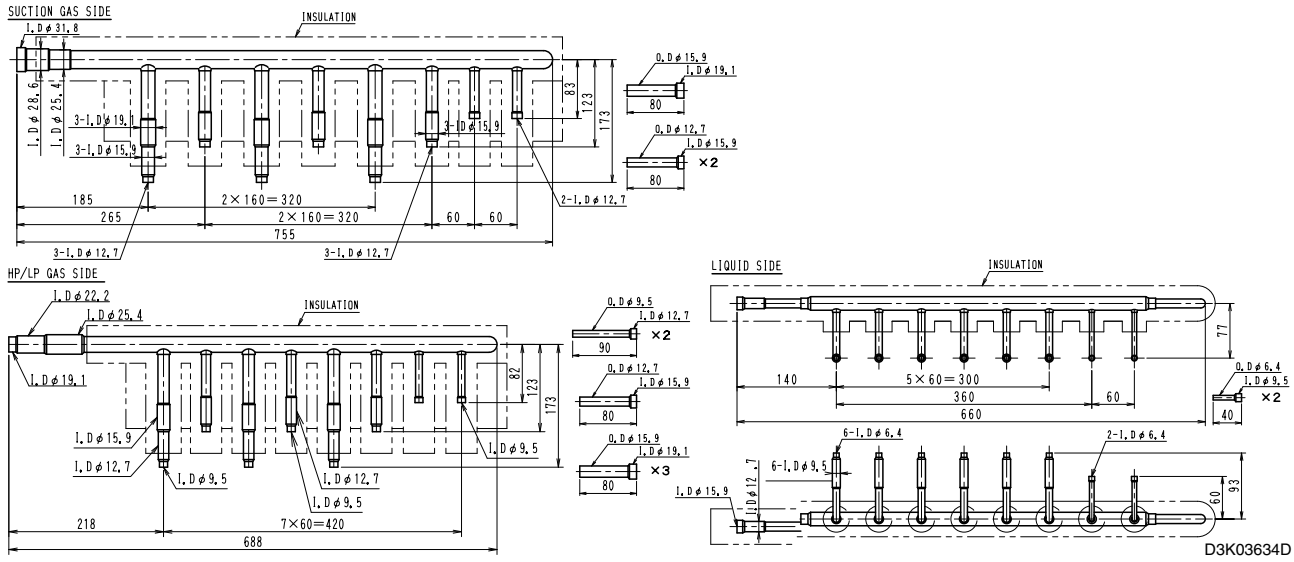
3P113151C

3.3 KHRP25M33·72·73H

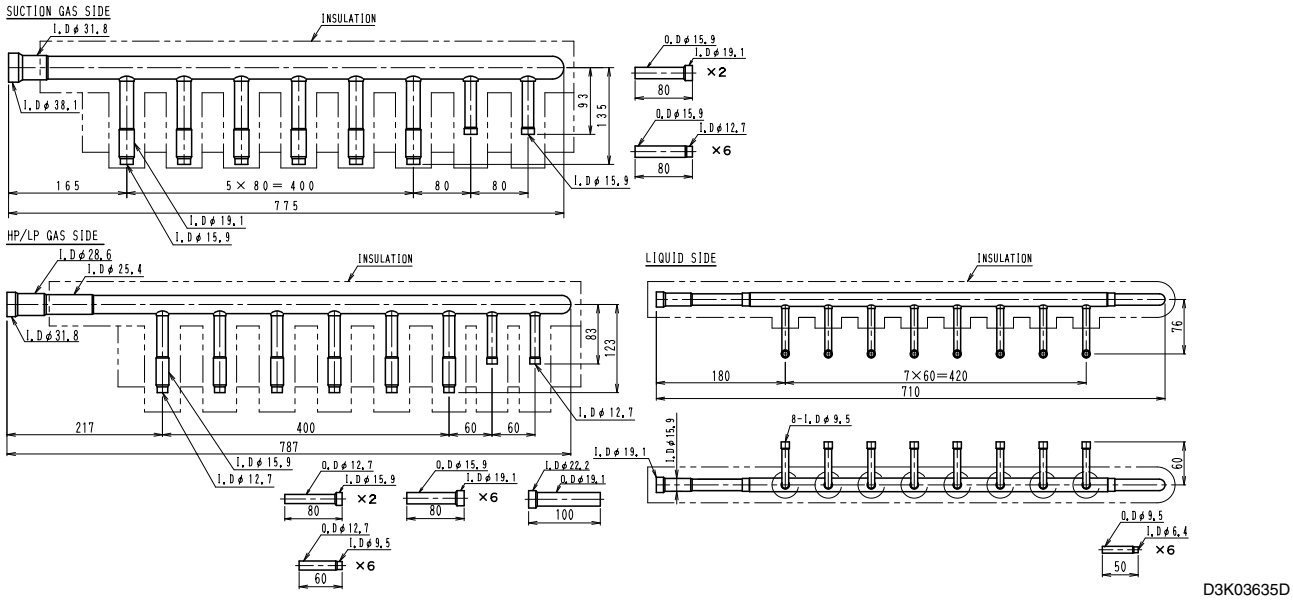
KHRP25M33H



KHRP25M72H



KHRP25M73H



Installation

■ THIS KIT INCLUDES THE FOLLOWING PARTS.

KIT NAME	SHAPE							
	SUCTION GAS SIDE HEADER	DISCHARGE GAS(HP/LP GAS) SIDE HEADER	LIQUID SIDE HEADER	INSULATION FOR HEADER	PLUGGING TUBES	REDUCER	INSULATION FOR GAS SIDE ENCLOSED PIPING	INSULATION FOR LIQUID SIDE PIPING
KHRP 25M33H 8branches	※ 1 pcs.	1 pcs.	1 pcs.	2pcs. for gas side 1 pcs. for liquid side	6 each for suction gas/ discharge gas (HP/LP gas)/ liquid sides	suction gas side (φ15.9) 5pcs. discharge gas(HP/LP gas)side (φ19.1) 1pcs. (φ12.7) 3pcs. liquid side (φ9.5) 2pcs.	1 2 pcs.	8 pcs.
KHRP 25M72H 8branches	1 pcs.	1 pcs.	1 pcs.	2pcs. for gas side 1 pcs. for liquid side	6 each for suction gas/ discharge gas (HP/LP gas)/ liquid sides	suction gas (φ19.1) 1pcs. (φ15.9) 2pcs. discharge gas(HP/LP gas)side (φ19.1) 3pcs. (φ15.9) 1pcs. (φ12.7) 2pcs. liquid side (φ9.5) 2pcs.	1 2 pcs.	8 pcs.
KHRP 25M73H 8branches	1 pcs.	1 pcs.	1 pcs.	2pcs. for gas side 1 pcs. for liquid side	6 each for suction gas/ discharge gas (HP/LP gas)/ liquid sides	suction gas side (φ19.1) 2pcs. (φ12.7) 6pcs. discharge gas(HP/LP gas)side (φ19.1) 6pcs. (φ15.9) 2pcs. (φ9.5) 6pcs. liquid side (φ22.2) 1pcs. (φ6.4) 6pcs.	1 2 pcs.	8 pcs.

※…Make sure suction gas side header, discharge gas(HP/LP gas) side and liquid side header are for R410A.
(Label for R410A is attached on each part.)

INTRODUCTION

This kit is designed as a refrigerant branching kit for HEAT RECOVERY unit for installation in buildings.

- Between outdoor unit and BS unit (upstream of BS unit), use 3 pipings. Use this kit for such branching application.
- Between BS unit and indoor unit (downstream of BS unit) and between REFNET HEADER and cooling-only indoor unit, use 2 pipings.

3 pipings	2 pipings	
Upstream of BS unit	Downstream of BS unit	To cooling-only indoor unit
Suction gas side piping Discharge gas(HP/LP gas) side piping Liquid side piping	Gas side piping Liquid side piping	Suction gas side piping Liquid side piping

SELECTION PROCEDURE

According to the INSTALLATION MANUAL of outdoor unit.

INSTALLATION PROCEDURE

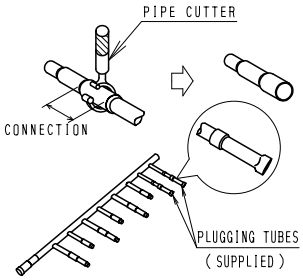
❶ The pipe size of each parts are shown below.

KIT NAME	SUCTION GAS SIDE HEADER	DISCHARGE GAS(HP/LP GAS) SIDE HEADER	LIQUID SIDE HEADER
KHRP 25M33H 8branches	φ15.9 φ19.1 φ22.2 φ19.1 φ15.9 φ12.7 φ15.9X2 φ12.7X2 φ12.7X5	φ12.7 φ15.9 φ19.1 φ15.9X2 φ12.7X2 φ9.5X2 φ12.7X3 φ9.5X3 φ9.5X3	φ12.7 φ9.5 φ9.5 φ9.5X6 φ6.4X6 φ6.4X2
KHRP 25M72H 8branches	φ28.6 φ25.4 φ31.8 φ15.9×3 φ12.7×3 φ19.1X3 φ15.9×3 φ12.7×3 φ12.7×2	φ22.2 φ25.4 φ19.1 φ15.9X3 φ12.7X3 φ9.5X3 φ12.7×3 φ9.5×3 φ9.5×2	φ15.9 φ12.7 φ12.7 φ9.5X6 φ6.4X6 φ6.4X2
KHRP 25M73H 8branches	φ38.1 φ31.8 φ19.1×6 φ15.9×6 φ15.9×2	φ28.6 φ25.4 φ31.8 φ15.9×6 φ12.7×6 φ12.7×2	φ19.1 φ15.9 φ15.9 φ9.5X8

3P113623D

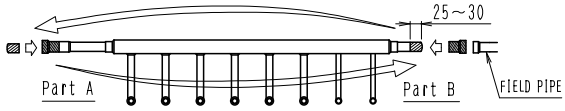
❷ For the outlet/inlet pipings which can be connected in several piping sizes, cut the connections of piping diameter to be used with a pipe cutter according to the left lower table.

NOTE) 1. Cut in the center of the connections.
2. PIPE SIDE REDUCER
ex)When connecting the field pipe(φ22.2) to inlet liquid side pipe of KHRP25M73H, use PIPE SIDE REDUCER.



❸ For non-connected outlet pipings at the indoor unit side for refrigerant branching, install the supplied plugging tube.

When connecting the field piping to inlet piping part B at the outdoor unit of liquid side header.
- Cut part B as shown with a pipe cutter and install it to part A.
- Connect the flared field piping to part B.



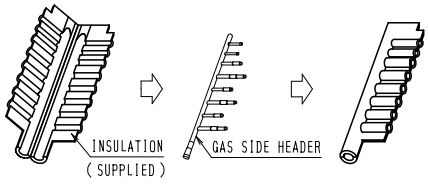
• Make sure to flow nitrogen gas through the pipe when brazing.

❹ Insulation of HEADER

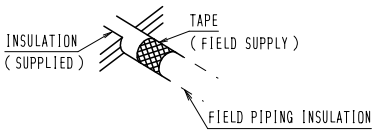
• Be sure to insulate the gas and liquid side HEADER.
Note) The insulation of the refrigerant piping must be reinforced based on the environment of installation. Otherwise, dew may condensate on the surface of the insulation. For details, see Engineering Data.

SUCTION/DISCHARGE GAS SIDE HEADER

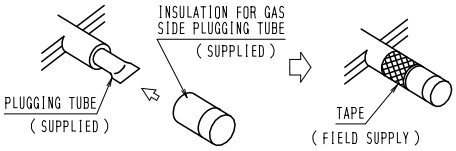
i)Insulate the gas side header with the supplied insulation.



ii)Seal the supplied insulation and field piping insulation junction with the field supplied tape.

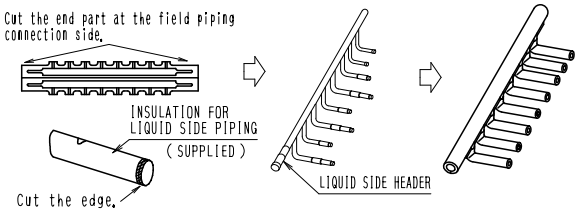


iii)Seal the plugging tube mounting part with the field supplied tape after installing the supplied insulation for the supplied plugging tube.

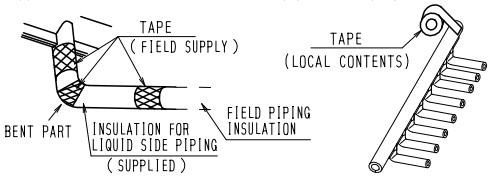


LIQUID SIDE HEADER

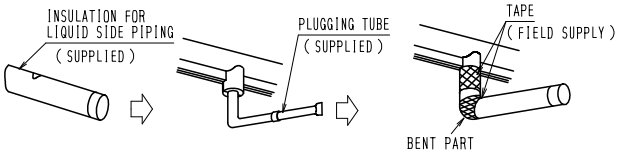
i) Insulate the header using the insulation for header and the insulation for liquid side piping.



ii) Seal the supplied insulation and liquid side piping insulation joint, the supplied liquid side piping insulation bending part, and the joint with the field piping insulation, using the field supplied tape. Seal the supplied insulation with a vinyl tape, for example.



iii) Using the field supplied tape, seal the plugging tube mounting part after installing the insulation for liquid side piping (supplied).

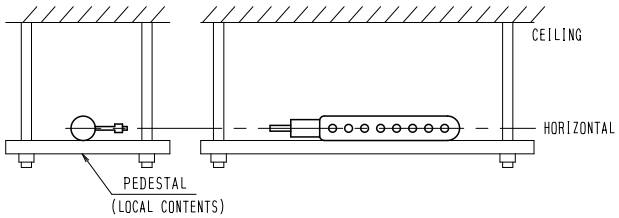


INSTALLATION PROCEDURE

- Do not apply extra force on the piping part. The brazed part may be damaged and it may result in gas leakage.

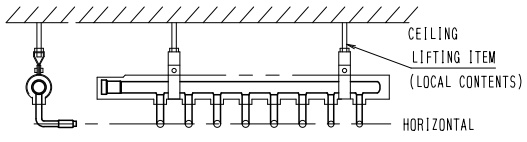
SUCTION/DISCHARGE GAS SIDE HEADER

- Place the header on the pedestal and install it so that it is horizontal.



LIQUID SIDE HEADER

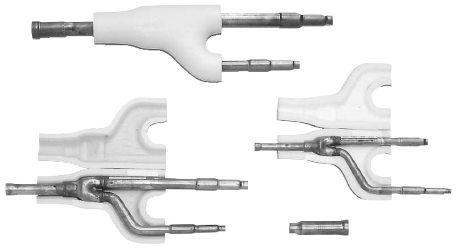
- Suspend the header from the ceiling, and be sure to install it so that the outlet/inlet pipings at the header indoor unit side are horizontal at the lower side as shown below.



3P113623D

4. REFNET Joint

4.1 KHRJ26K11·17·18·37·40·75T



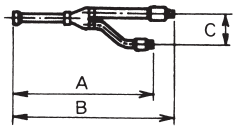
- Includes insulation. Makes it easy to insulate complicated branch points in no time flat.
- Connecting parts have already been expanded. Brazing is finished in a flash.

Dimensions

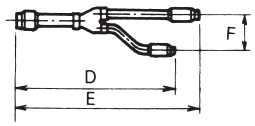
Model \ Dimensions	A	B	C	D	E	F
KHRJ26K11T	250	290	80	298	338	80
KHRJ26K17T	250	290	80	320	360	80
KHRJ26K18T	250	290	80	298	338	80
KHRJ26K37T	290	332	80	448	503	80
KHRJ26K40T	400	438	90	534	634	93
KHRJ26K75T	409	323	90	607	721	80

Unit:mm

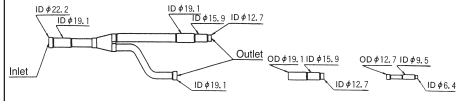
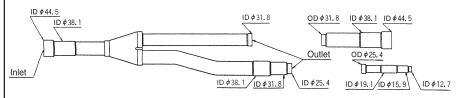
Liquid side joint



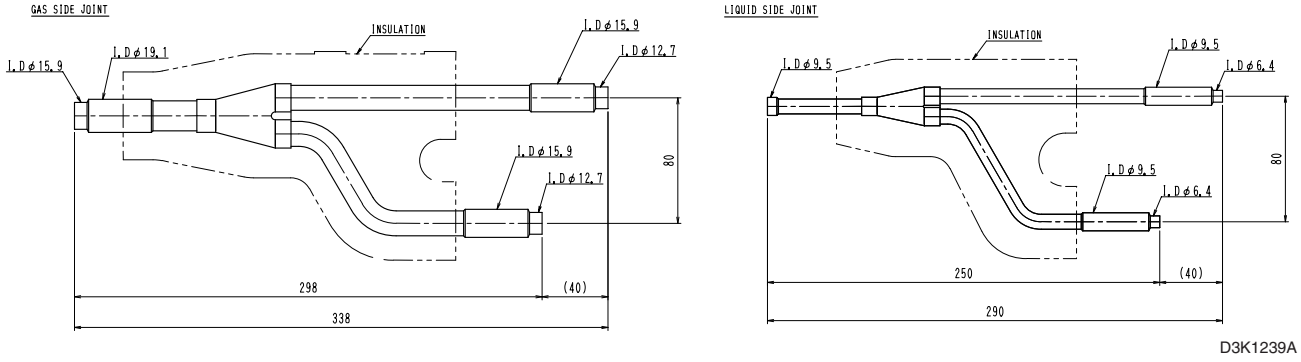
Gas - side joint



This graph above shows KHRJ26K11T.

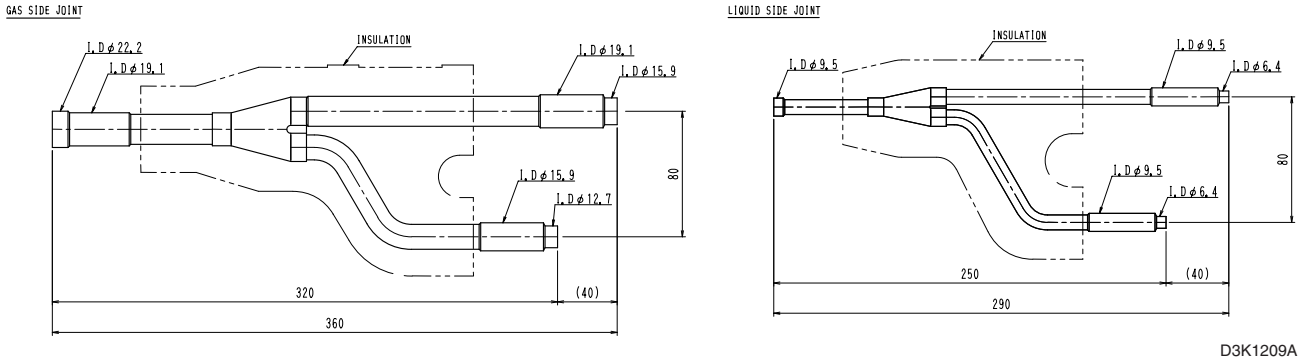
Item \ Model			KHRJ26K11T	KHRJ26K17T	KHRJ26K18T	KHRJ26K37T	KHRJ26K40T	KHRJ26K75T
Connection pipe diameter	Liquid side use	Joint (with insulation)	φ6.4 φ9.5  φ9.5	φ6.4 φ9.5 φ9.5	φ6.4 φ6.4 φ9.5 φ9.5  φ9.5	φ 9.5 φ 6.4 φ12.7 φ 9.5 φ12.7  φ12.7 φ15.9	φ12.7 φ 9.5 φ15.9 φ15.9 φ19.1 φ19.1  φ19.1 φ15.9	
	Gas - side use	Joint (with insulation)	φ12.7 φ12.7 φ15.9 φ15.9  φ19.1 φ15.9	φ15.9 φ12.7 φ19.1 φ15.9  φ19.1 φ22.2	φ12.7 φ12.7 φ15.9 φ15.9 φ19.1  φ19.1 φ15.9	φ15.9 φ12.7 φ19.1 φ15.9 φ25.4 φ19.1  φ25.4 φ28.6 φ31.8	φ25.4 φ15.9 φ28.6 φ19.1 φ31.8 φ25.4  φ31.8 φ38.1	
		Reducer	—	—	—	φ19.1→φ25.4 φ25.4→φ28.6	φ 9.5→φ 6.4 φ15.9→φ12.7 φ25.4→φ28.6 φ31.8→φ38.1	Liquid side : φ12.7→φ15.9→φ19.1, φ6.4→φ9.5→φ12.7 Gas side : φ31.8→φ38.1→φ31.8, φ12.7→φ15.9$→φ19.1→φ25.4
Material			Polypropylene					
Insulation temperature			120˚C					
Color			White					
Component parts			Liquid - side joint, Gas - side joint, Insulation, Installation manual			Liquid - side joint, Gas - side joint, Insulation, Reducer, Installation manual		

KHRJ26K11T



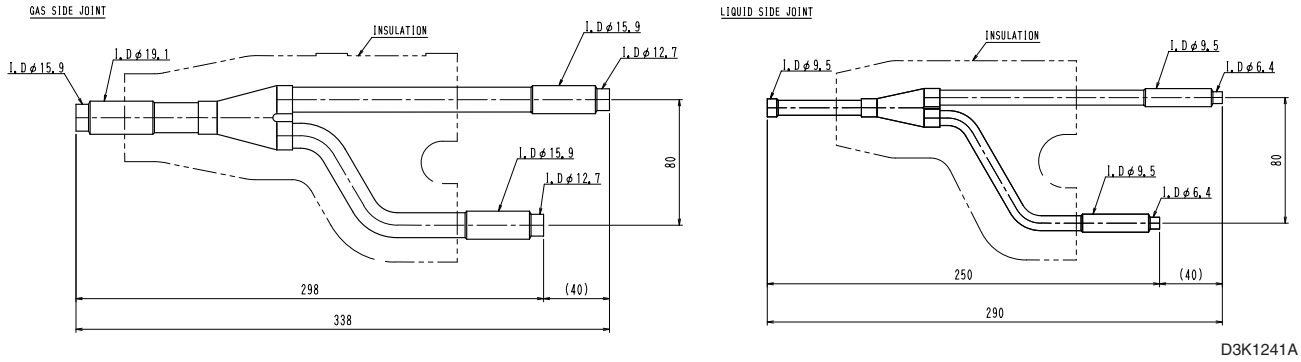
D3K1239A

KHRJ26K17T



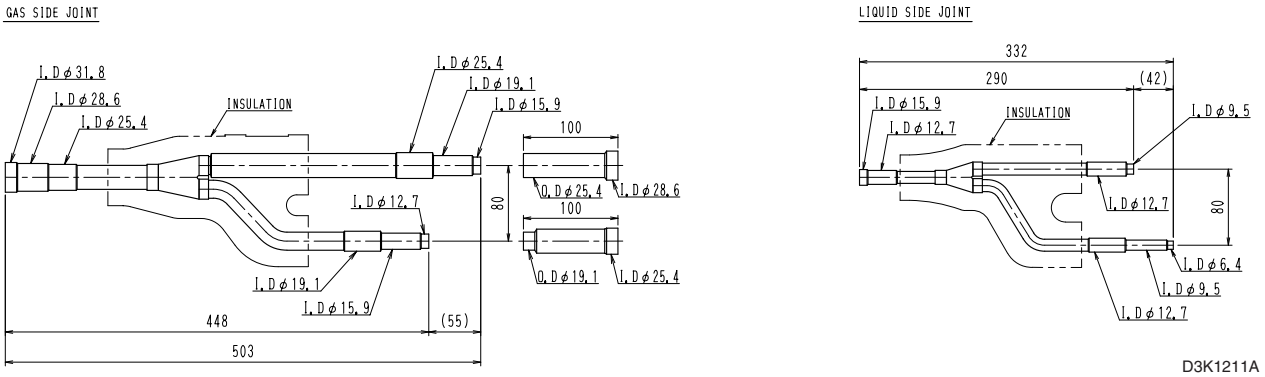
D3K1209A

KHRJ26K18T



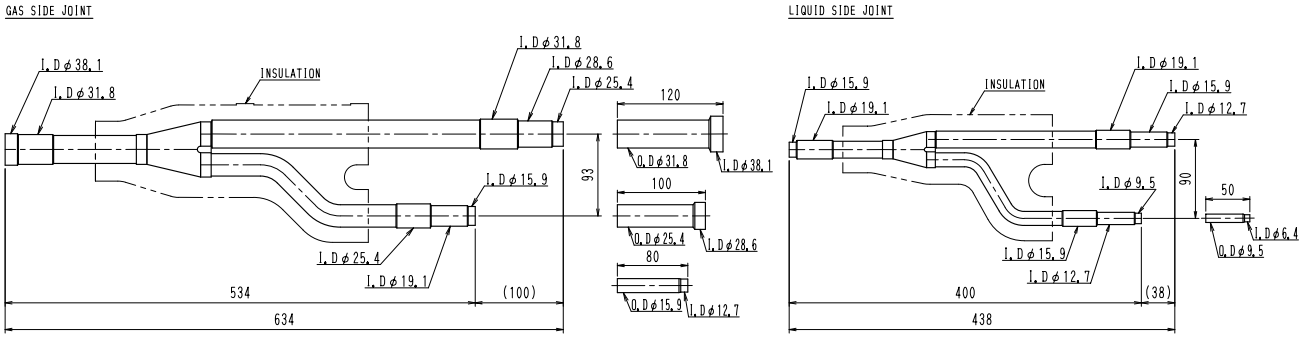
D3K1241A

KHRJ26K37T



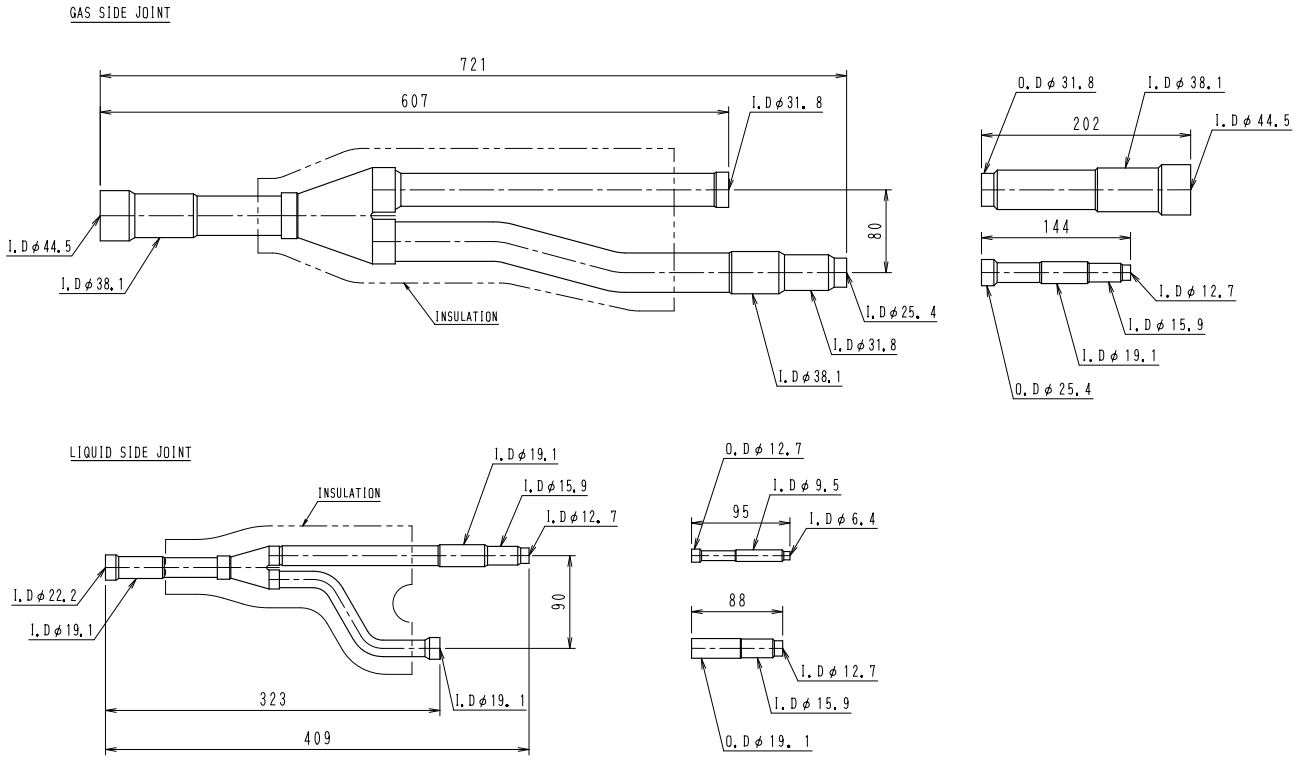
D3K1211A

KHRJ26K40T



D3K1211A

KHRJ26K75T



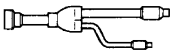
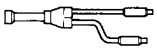
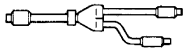
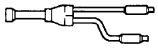
D3K1311B

4.1.1 KHRJ26K11·17T

REFNET JOINT INSTALLATION MANUAL (EXCEPT FOR JAPAN)

KHRJ26K17T
KHRJ26K11T

■ THIS KIT INCLUDES THE FOLLOWING PARTS.

KHRJ26K17T				KHRJ26K11T			
GAS SIDE JOINT	LIQUID SIDE JOINT	INSULATION	TAPE	GAS SIDE JOINT	LIQUID SIDE JOINT	INSULATION	TAPE
		 (Gas side/liquid side) 2 pcs.	 8 sheets.			 (Gas side/liquid side) 2 pcs.	 8 sheets.

■ SELECTION PROCEDURE

① **According to the following procedure, use KHRJ26K17T and KHRJ26K11T properly.**

- Total the capacity of indoor unit in the downstream from its JOINT and sclect the kit from the table below.

INDOOR UNIT TOTAL CAPACITY	KIT NAME
Less than 100	KHRJ26K11T
Not less than 100	KHRJ26K17T

- For the model name of indoor unit which can be combined, refer to the installation manual attached to the product.

(Find the indoor unit capacity by calculation from the nominal capacity indicated on the model name according to the table below.)

INDOOR UNIT MODEL NO.	CAPACITY
Type 20	20
Type 25	25
Type 32	31.25
Type 40	40
Type 50	50
Type 63	62.5
Type 80	80
Type 100	100
Type 125	125

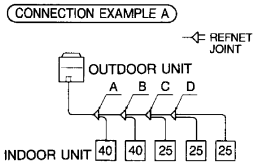
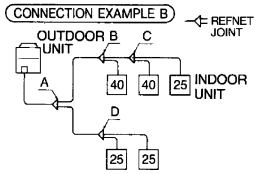
② **According to the following procedure, determine the piping size at each part.**

- Connect between the outdoor unit and the first JOINT according to the pipe size of the outdoor unit. ex) For RSXY5HY1 Gas pipe size:ϕ19.1 Liquid pipe size:ϕ9.5
- Total the capacity of indoor unit in the downstream and select the size between JOINTS from the table below.

INDOOR UNIT TOTAL CAPACITY	GAS PIPE SIZE	LIQUID PIPE SIZE
LESS THAN 100	ϕ15.9	ϕ9.5
NOT LESS THAN 100	ϕ19.1	ϕ9.5

- Connect between the JOINT and indoor unit according to the indoor unit connection size.

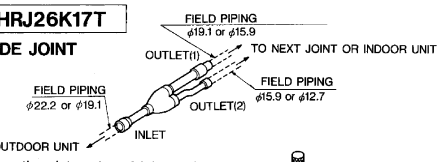
INDOOR UNIT NOMINAL CAPACITY	GAS PIPE SIZE	LIQUID PIPE SIZE
Type 20,25,32,40	ϕ12.7	ϕ6.4
Type 50,63,80	ϕ15.9	ϕ9.5
Type 100,125	ϕ19.1	ϕ9.5

REFRIGERANT PIPING CONNECTION EXAMPLE	JOINT SELECTION PROCEDURE	PIPING SIZE SELECTION PROCEDURE
CONNECTION EXAMPLE A  The figure in □ indicates the indoor unit capacity.	A: Total capacity of indoor unit in the downstream ⇨ KHRJ26K17T 40+40+25+25+25=155>100 B: Total capacity of indoor unit in the downstream ⇨ KHRJ26K17T 40+25+25+25=115>100 C: Total capacity of indoor unit in the downstream ⇨ KHRJ26K11T 25+25+25=75<100 D: Total capacity of indoor unit in the downstream ⇨ KHRJ26K11T 25+25=50<100	• Between JOINT (A) and (B): Total capacity of indoor unit in the downstream 40+25+25+25=115>100 ⇨ Gas side piping ϕ19.1 Liquid side piping ϕ9.5 • Between JOINT (B) and (C): Total capacity of indoor unit in the downstream 25+25+25=75<100 ⇨ Gas side piping ϕ15.9 Liquid side piping ϕ9.5 • Between JOINT (C) and (D): Total capacity of indoor unit in the downstream 25+25=50<100 ⇨ Gas side piping ϕ15.9 Liquid side piping ϕ9.5 • Between JOINT (A~D) and indoor unit: As per indoor unit connection size ⇨ Gas side piping / Liquid side piping As per the table above.
CONNECTION EXAMPLE B  The figure in □ indicates the indoor unit capacity.	A: Total capacity of indoor unit in the downstream ⇨ KHRJ26K17T 40+40+25+25+25=155>100 B: Total capacity of indoor unit in the downstream ⇨ KHRJ26K17T 40+40+25=105>100 C: Total capacity of indoor unit in the downstream ⇨ KHRJ26K11T 40+25=65<100 D: Total capacity of indoor unit in the downstream ⇨ KHRJ26K11T 25+25=50<100	• Between JOINT (A) and (B): Total capacity of indoor unit in the downstream 40+40+25=105>100 ⇨ Gas side piping ϕ19.1 Liquid side piping ϕ9.5 • Between JOINT (B) and (C): Total capacity of indoor unit in the downstream 40+25=65<100 ⇨ Gas side piping ϕ15.9 Liquid side piping ϕ9.5 • Between JOINT (A) and (D): Total capacity of indoor unit in the downstream 25+25=50<100 ⇨ Gas side piping ϕ15.9 Liquid side piping ϕ9.5 • Between JOINT (B~D) and indoor unit: As per indoor unit connection size ⇨ Gas side piping / Liquid side piping As per the table above.

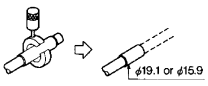
■ INSTALLATION PROCEDURE

For KHRJ26K17T

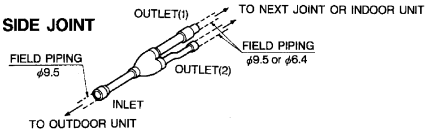
① **GAS SIDE JOINT**



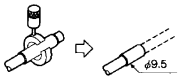
Note: When the piping size of inlet is ϕ19.1, piping size of outlet(1) is ϕ19.1 or piping size of outlet(2) is ϕ15.9, cut the pipe with a pipe cutter for use.



② **LIQUID SIDE JOINT**

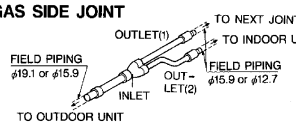


Note: When the piping size of outlet is ϕ9.5 cut the pipe with a pipe cutter for use.



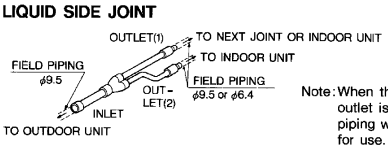
For KHRJ26K11T

① **GAS SIDE JOINT**



Note: When the piping size of inlet is ϕ19.1 or the piping size of outlet is ϕ15.9, cut the pipe with a pipe cutter for use.

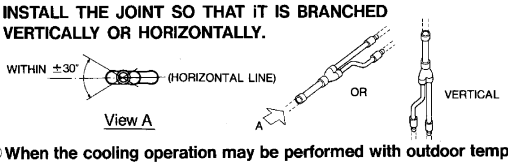
② **LIQUID SIDE JOINT**



Note: When the piping size of outlet is ϕ9.5, cut the piping with a pipe cutter for use.

■ INSTALLATION PRECAUTIONS

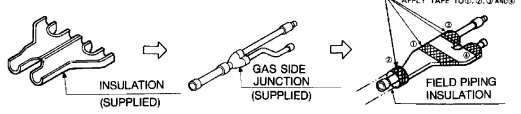
① **INSTALL THE JOINT SO THAT IT IS BRANCHED VERTICALLY OR HORIZONTALLY.**



③ **When the cooling operation may be performed with outdoor temperature 15°C or under, also insulate the liquid side.**

② **BE SURE TO INSULATE THE GAS SIDE JOINT.**

- Seal the insulation and field piping heat insulation joint with the supplied tape.

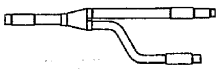
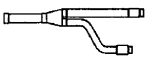
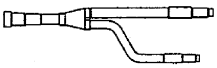
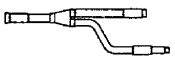
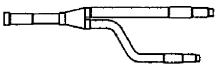


3P234462

4.1.2 KHRJ26K18·37·40T

REFNET JOINT INSTALLATION MANUAL
(Except for JAPAN) KHRJ26K18T・37T・40T

■ THIS KIT INCLUDES THE FOLLOWING PARTS.

KIT NAME	SHAPE							
	GAS SIDE JOINT	LIQUID SIDE JOINT	INSULATION	TAPE	REDUCER			
KHRJ26K18T			 (Gas side/ Liquid side) 2 pcs.	 8 sheets				
KHRJ26K37T			 (Gas side/ Liquid side) 2 pcs.	 8 sheets	 φ25.4	 φ28.6		
KHRJ26K40T			 (Gas side/ Liquid side) 2 pcs.	 8 sheets	 φ28.6	 φ38.1	 φ12.7	 φ6.4

SELECTION PROCEDURE

① According to the following procedure.

- First branch counted from the outdoor unit (Type8, 10), use KHRJ26K37T.
- When using REFNET joint on the first branch counted from the function unit side. If system capacity is less than 640, use KHRJ26K40T + KHRJ26K40TP.

- Next JOINT, total the capacity of indoor unit in the downstream from it is JOINT and select the kit from the table 1.
- For the model name of indoor unit which can be combined, refer to the installation manual attached to the product.

(Table 1)

INDOOR UNIT TOTAL CAPACITY	KIT NAME
Less than 160	KHRJ26K18T
Not less than 160, less than 330	KHRJ26K37T
Not less than 330	KHRJ26K40T
	KHRJ26K40TP

(Find the indoor unit capacity by calculation from the nomina capacity indicated on the mode name according to the table 2.

(Table 2)

INDOOR UNIT NOMINAL CAPACITY	CAPACITY
Type 20	20
Type 25	25
Type 32	31.25
Type 40	40
Type 50	50
Type 63	62.5
Type 80	80
Type 100	100
Type 125	125
Type 200	200
Type 250	250

② According to the folloing procedure, determine the piping size at each part.

- Connect between the outdoor unit and the first JOINT according to the outdoor unit connection size.

(Table 3) (Unit:mm)

OUTDOOR UNIT	LIQUID PIPE SIZE	GAS PIPE SIZE
Type 8(HP)	φ12.7	φ25.4
Type 10(HP)	φ12.7	φ28.6

- Connect between the function unit and the first JOINT according to the function unit connection size.

(Table 3) (Unit:mm)

OUTDOOR SYSTEM NAME	LIQUID PIPE SIZE	GAS PIPE SIZE
RXY16K	φ15.9	φ34.9
RXY18~20K	φ19.1	φ34.9
RXY24K	φ19.1	φ41.3

- Total the capacity of indoor unit in the downstream and select the size between JOINTS from the table 4.

(Table 4) (Unit:mm)

INDOOR ~~UNIT~~ TOTAL CAPACITY	LIQUID PIPE SIZE	GAS PIPE SIZE
Less than 100	φ9.5	φ15.9
Not less than 100, less than 160	φ9.5	φ19.1
Not less than 160, less than 330	φ12.7	φ25.4
Not less than 330, less than 480	φ15.9	φ34.9
Not less than 480, less than 640	φ19.1	φ34.9
Not less than 640	φ19.1	φ41.3

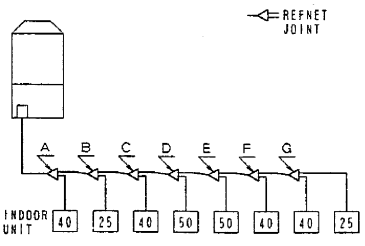
- Connect between the JOINT and indoor unit according to the indoor unit connection size.

(Table 5) (Unit:mm)

INDOOR UNIT NOMINALCAPACITY	LIQUID PIPE SIZE	GAS PIPE SIZE
Types 20・25・32・40	φ6.4	φ12.7
Types 50・63・80	φ9.5	φ15.9
Types 100・125	φ9.5	φ19.1
Types 200	φ12.7	φ25.4
Types 250	φ12.7	φ28.6

REFRIGERANT PIPING CONNECTION EXAMPLE

CONNECTION EXAMPLE



The figure in □ indicates the indoor unit capacity.

JUNCTION SELECTION PROCEDURE

A : First JOINT→KHRJ26K37T

B : Total capacity of indoor unit in the downstream→KHRJ26K37T
25+40+50+50+40+40+25=270<330

C : Total capacity of indoor unit in the downstream→KHRJ26K37T
40+50+50+40+40+25=245<330

D : Total capacity of indoor unit in the downstream→KHRJ26K37T
50+50+40+40+25=205<330

E : Total capacity of indoor unit in the downstream→KHRJ26K18T
50+40+40+25=155<160

F : Total capacity of indoor unit in the downstream→KHRJ26K18T
40+40+25=105<160

G : Total capacity of indoor unit in the downstream→KHRJ26K18T
40+25=65<160

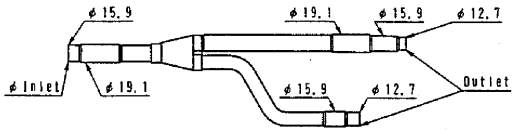
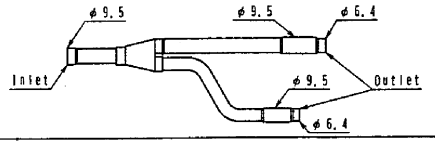
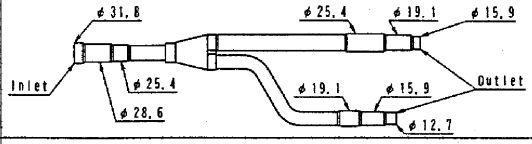
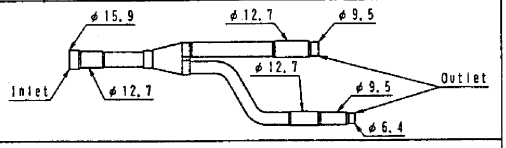
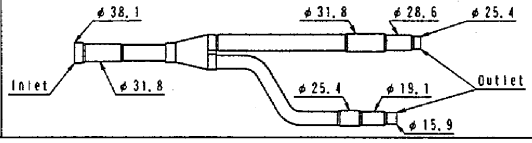
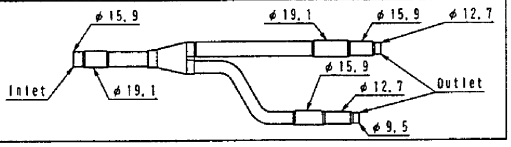
PIPING SIZE SELECTION PROCEDURE

• Between outdoor unit and first JOINT (A)	As per outdoor unit connection size →	Gas/liquid side piping: As per the table 3.
• Between JOINT (A) AND (B)	Total capacity of indoor unit in the downstream →	Gas side piping: φ25.4 Liquid side piping: φ12.7
	25+40+50+50+40+40+25=270<330	
• Between JOINT (B) AND (C)	Total capacity of indoor unit in the downstream →	Gas side piping: φ25.4 Liquid side piping: φ12.7
	40+50+50+40+40+25=245<330	
• Between JOINT (C) AND (D)	Total capacity of indoor unit in the downstream →	Gas side piping: φ25.4 Liquid side piping: φ12.7
	50+50+40+40+25=205<330	
• Between JOINT (D) AND (E)	Total capacity of indoor unit in the downstream →	Gas side piping: φ19.1 Liquid side piping: φ9.5
	50+40+40+25=155<160	
• Between JOINT (E) AND (F)	Total capacity of indoor unit in the downstream →	Gas side piping: φ19.1 Liquid side piping: φ9.5
	40+40+25=105<160	
• Between JOINT (F) AND (G)	Total capacity of indoor unit in the downstream →	Gas side piping: φ15.9 Liquid side piping: φ9.5
	40+25=65<160	
• Between JOINT (A-G) and indoor unit	TAs per indoor unit connection size →	Gas side piping Liquid side piping: As per the table 5.

3P234463

INSTALLATION PROCEDURE

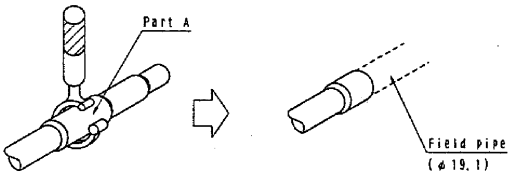
① The pipe size of each parts are shown below.

KIT NAME	GAS SIDE JOINT	LIQUID SIDE JOINT
KHRJ26K18T		
KHRJ26K37T		
KHRJ26K40T		

② According to SELECTION PROCEDURE cut the pipe with a pipe cutter for use.

・When the liquid side pipe size of outlet is φ19.1.

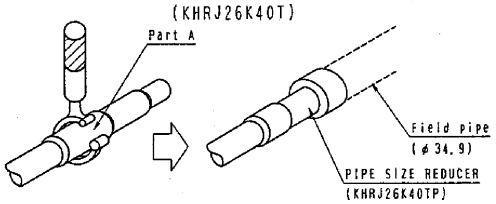
(KHRJ26K40T)



(Cut part A and connect a field pipe.)

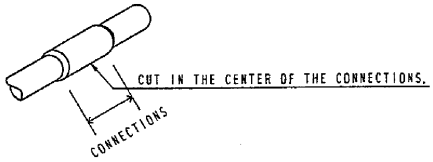
・When the gas side pipe size of outlet is φ34.9.

(KHRJ26K40T)



(Cut part A (φ31.8) and use PIPE SIZE REDUCER.)

・When cutting the inlet/outlet pipes with a pipe cutter, be sure to cut the center of the pipe connections to be cut.



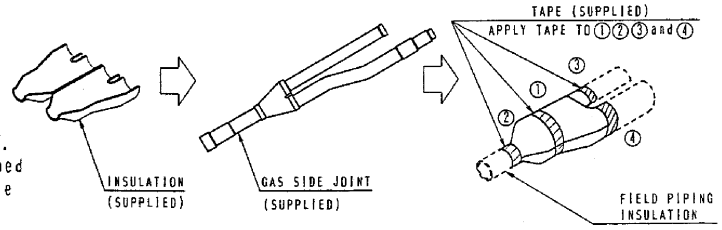
③ Insulation of JOINT

GAS SIDE

・Be sure to insulate the gas side JOINT and the liquid side JOINT.
・Seal the insulation and field piping insulation joint with the supplied tape.

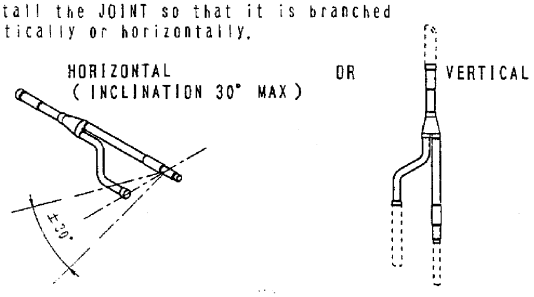
LIQUID SIDE

・For HEAT RECOVER SERIES
Be sure to insulate the liquid side JOINT.
・When the cooling operation may be performed in outdoor temperature 15° C, also insulate the liquid side.



INSTALLATION PRECAUTIONS

・Install the JOINT so that it is branched vertically or horizontally.



3P234463

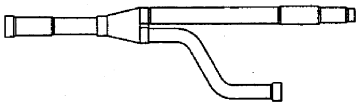
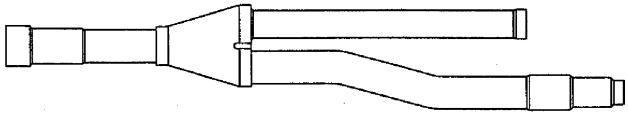
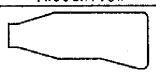
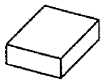
4.1.3 KHRJ26K75T

REFNET JOINT INSTALLATION MANUAL (Except for JAPAN)

KHRJ26K75T

■ THIS KIT INCLUDES THE FOLLOWING PARTS.

KHRJ26K75T

LIQUID SIDE JOINT	GAS SIDE JOINT		
			
REDUCER (Liquid side)	REDUCER (Gas side)	INSULATION	TAPE
		 (Gas side/Liquid side) 2 pcs.	 7 sheets

SELECTION PROCEDURE

①According to the following procedure.

- When using REFNET joint on the first branch counted from the function unit side.
  If system capacity is less than 640, use KHRJ26K40T + KHRJ26K40TP.
  If system capacity is 640 or greater, use KHRJ26K75T + KHRJ26K75TP.
- Next JOINT, total the capacity of indoor unit in the downstream from it is JOINT and select the kit from the table 1.

(Table 1)

INDOOR UNIT TOTAL CAPACITY	KIT NAME
Less than 100	KHRJ26K11T
Not less than 100, less than 160	KHRJ26K18T
Not less than 160, less than 330	KHRJ26K37T
Not less than 330, less than 640	KHRJ26K40T + KHRJ26K40TP
Not less than 640	KHRJ26K75T + KHRJ26K75TP

(Find the indoor unit capacity by calculation from the nominal capacity indicated on the model name according to the table 2.)

(Table 2)

INDOOR UNIT NOMINAL CAPACITY	CAPACITY
Type 20	20
Type 25	25
Type 32	31.25
Type 40	40
Type 50	50
Type 63	62.5
Type 80	80
Type 100	100
Type 125	125
Type 200	200
Type 250	250

②According to the following procedure, determine the piping size at each part.

- Select the pipe size between function unit and the first JOINT from the table 3.

(Table 3) (Unit:mm)

OUTDOOR SYSTEM NAME	LIQUID PIPE SIZE	GAS PIPE SIZE
RXY16K	φ15.9	φ34.9
RXY18~20K	φ19.1	φ34.9
RXY24K	φ19.1	φ41.3
RXY26~30K	φ22.2	φ41.3

- Total the capacity of indoor unit in the downstream and select the size between JOINTS from the table 4.

(Table 4) (Unit:mm)

INDOOR UNIT TOTAL CAPACITY	LIQUID PIPE SIZE	GAS PIPE SIZE
Less than 100	φ9.5	φ15.9
Not less than 100, less than 160	φ9.5	φ19.1
Not less than 160, less than 330	φ12.7	φ25.4
Not less than 330, less than 480	φ15.9	φ34.9
Not less than 480, less than 640	φ19.1	φ34.9
Not less than 640	φ19.1	φ41.3

- Connect between the JOINT and indoor unit according to the indoor unit connection size.

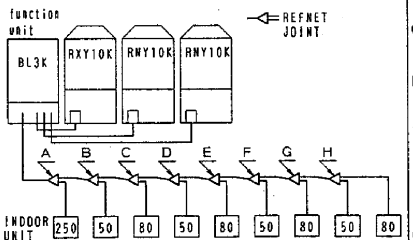
(Table 5) (Unit:mm)

INDOOR UNIT NOMINALCAPACITY	LIQUID PIPE SIZE	GAS PIPE SIZE
Types 20・25・32・40	φ6.4	φ12.7
Types 50・63・80	φ9.5	φ15.9
Types 100・125	φ9.5	φ19.1
Types 200	φ12.7	φ25.4
Types 250	φ12.7	φ28.6

REFRIGERANT PIPING CONNECTION EXAMPLE

OUTDOOR SYSTEM NAME:RXY30K

system capacity:770



The figure in □ indicates the indoor unit capacity.

JUNCTION SELECTION PROCEDURE

A : First JOINT→KHRJ26K75T

B : Total capacity of indoor unit in the downstream→KHRJ26K40T
50+80+50+80+50+80+50+80=520<640

C : Total capacity of indoor unit in the downstream→KHRJ26K40T
80+50+80+50+80+50+80=470<640

D : Total capacity of indoor unit in the downstream→KHRJ26K40T
50+80+50+80+50+80=390<640

E : Total capacity of indoor unit in the downstream→KHRJ26K40T
80+50+80+50+80=340<640

F : Total capacity of indoor unit in the downstream→KHRJ26K37T
50+80+50+80=260<330

G : Total capacity of indoor unit in the downstream→KHRJ26K37T
80+50+80=210<330

G : Total capacity of indoor unit in the downstream→KHRJ26K18T
50+80=130<160

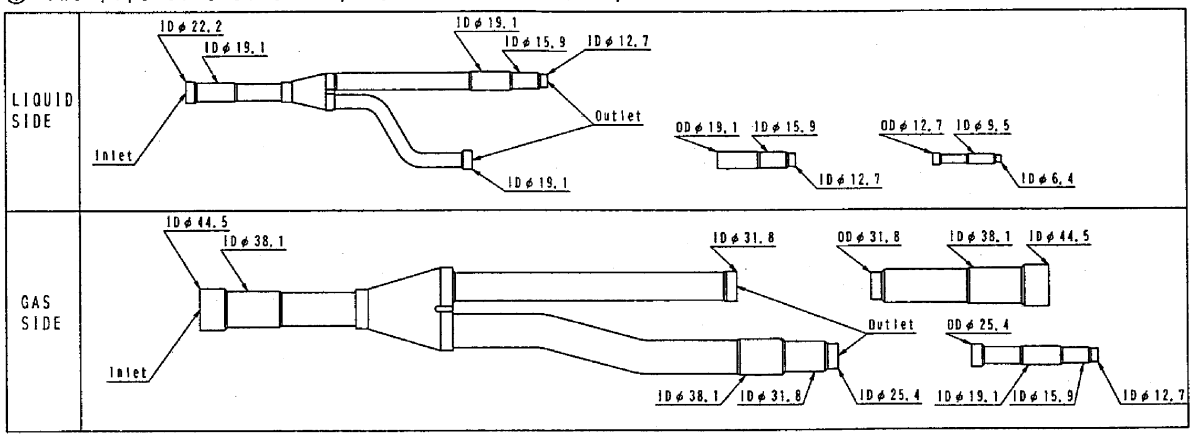
PIPING SIZE SELECTION PROCEDURE

- Between function unit and first JOINT (A): As per function unit connection size → Gas/liquid side piping: As per the table 3.
- Between JOINT (A) AND (B): Total capacity of indoor unit in the downstream 50+80+50+80+50+80+50+80=520<640 → Gas side piping: φ34.9, Liquid side piping: φ19.1
- Between JOINT (B) AND (C): Total capacity of indoor unit in the downstream 80+50+80+50+80+50+80=470<480 → Gas side piping: φ34.9, Liquid side piping: φ15.9
- Between JOINT (C) AND (D): Total capacity of indoor unit in the downstream 50+80+50+80+50+80=390<480 → Gas side piping: φ34.9, Liquid side piping: φ15.9
- Between JOINT (D) AND (E): Total capacity of indoor unit in the downstream 80+50+80+50+80=340<480 → Gas side piping: φ34.9, Liquid side piping: φ15.9
- Between JOINT (E) AND (F): Total capacity of indoor unit in the downstream 50+80+50+80=260<330 → Gas side piping: φ25.4, Liquid side piping: φ12.7
- Between JOINT (F) AND (G): Total capacity of indoor unit in the downstream 80+50+80=210<330 → Gas side piping: φ25.4, Liquid side piping: φ12.7
- Between JOINT (G) AND (H): Total capacity of indoor unit in the downstream 50+80=130<160 → Gas side piping: φ19.1, Liquid side piping: φ9.5
- Between JOINT (A~H) and indoor unit: As per indoor unit connection size → Gas/liquid side piping: As per the table 5.

3P234468

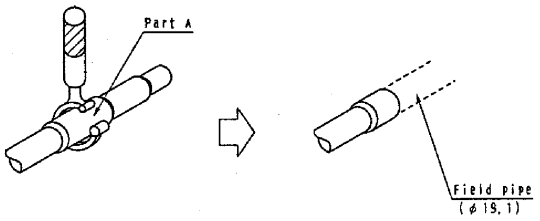
INSTALLATION PROCEDURE

① The pipe size of each parts are shown below.



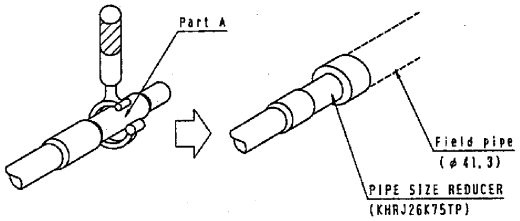
② According to SELECTION PROCEDURE cut the pipe with a pipe cutter for use.

- When the liquid side pipe size of outlet is φ 19.1.



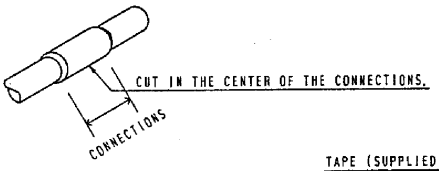
(Cut part A and connect a field pipe.)

- When the gas side pipe size of outlet is φ 41.3.



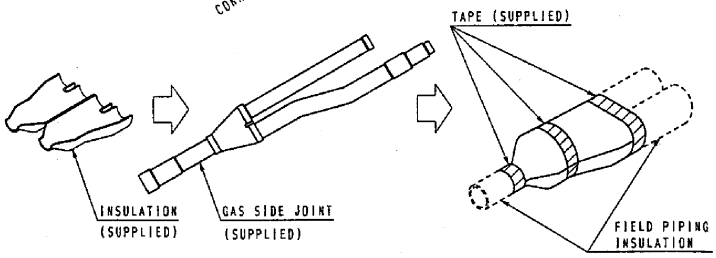
(Cut part A (φ 31.8) and use PIPE SIZE REDUCER.)

- When cutting the inlet/outlet pipes with a pipe cutter, be sure to cut the center of the pipe connections to be cut.



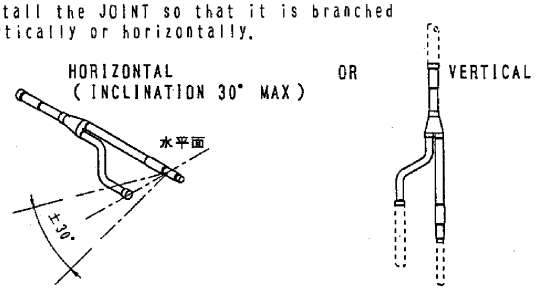
③ Insulation of JOINT

- Be sure to insulate the gas side JOINT and the liquid side JOINT.
- Seal the insulation and field piping insulation joint with the supplied tape.

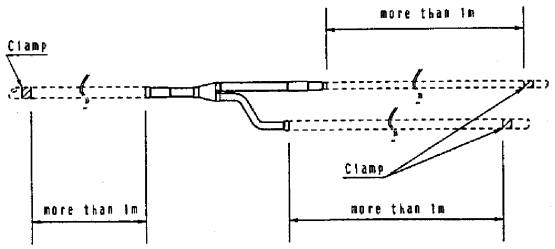


INSTALLATION PRECAUTIONS

- Install the JOINT so that it is branched vertically or horizontally.



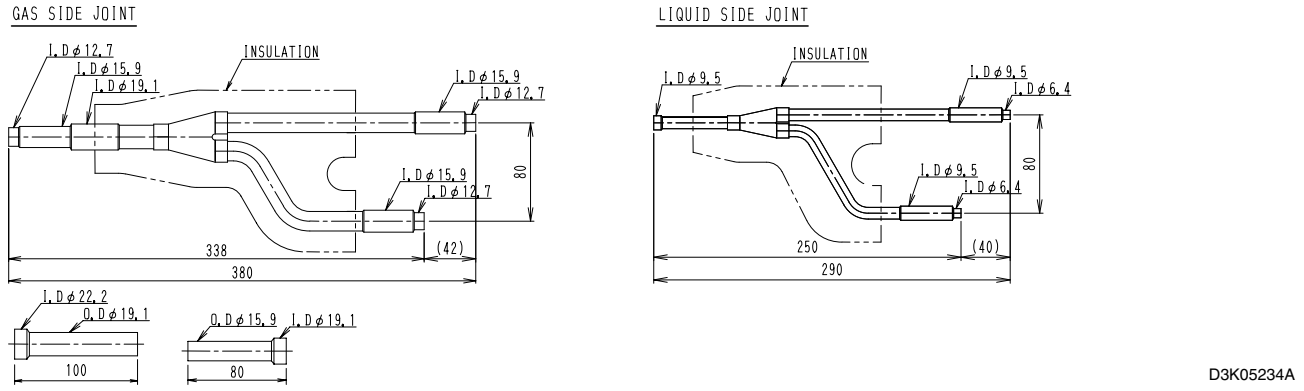
- Fix the field piping, and be sure to put clamp position apart from JOINT (more than 1m).



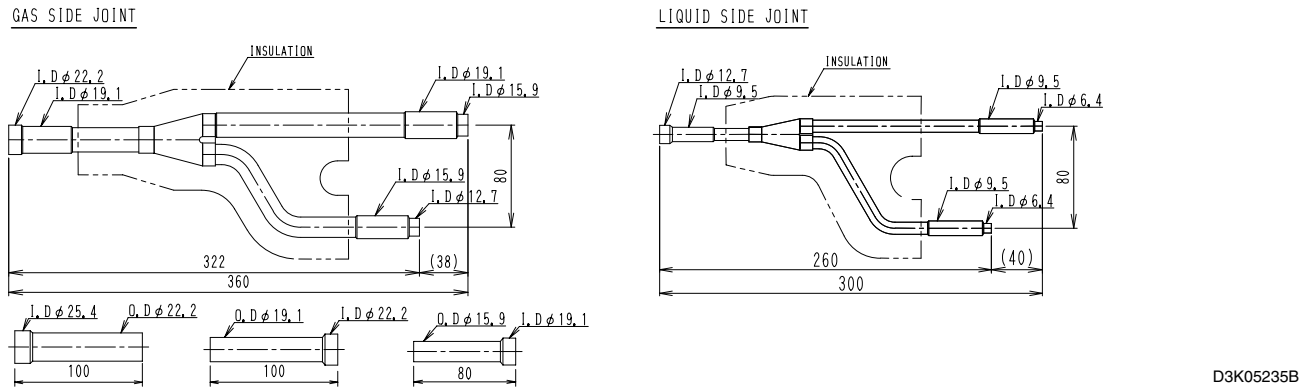
3P234468

4.2 KHRP26A22·33·72·73T

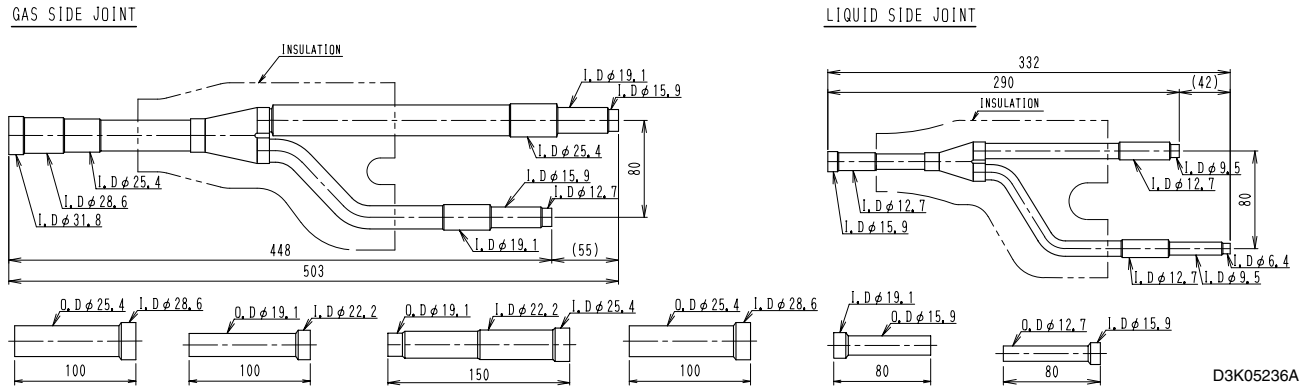
KHRP26A22T



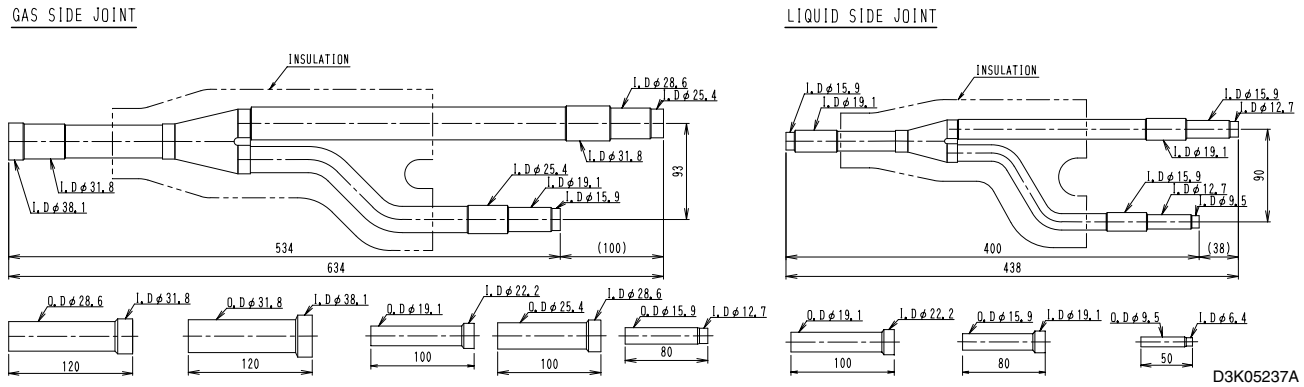
KHRP26A33T



KHRP26A72T



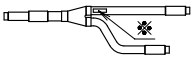
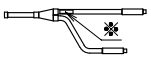
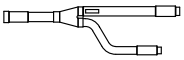
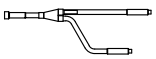
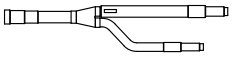
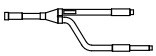
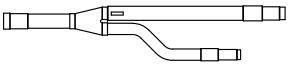
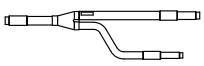
KHRP26A73T



Installation

REFNET JOINT INSTALLATION MANUAL(Except for JAPAN)
KHRP26A22T • 33T • 72T • 73T(FOR R410A)

■ THIS KIT INCLUDES THE FOLLOWING PARTS.

KIT NAME	SHAPE				
	GAS SIDE JOINT	LIQUID SIDE JOINT	INSULATION	REDUCER(FOR GAS PIPE)	REDUCER(FOR LIQUID PIPE)
KHRP26A 22T			2 pcs.	φ19.1 φ22.2	
KHRP26A 33T			2 pcs.	φ19.1 φ22.2 φ25.4	
KHRP26A 72T			2 pcs.	φ22.2 φ25.4/φ22.2 φ28.6 2 PCS.	φ15.9 φ19.1
KHRP26A 73T			2 pcs.	φ12.7 φ22.2 φ28.6 φ31.8 φ38.1	φ6.4 φ19.1 φ22.2

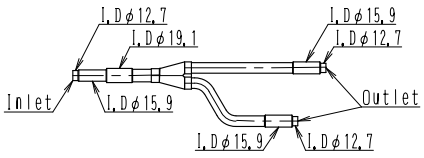
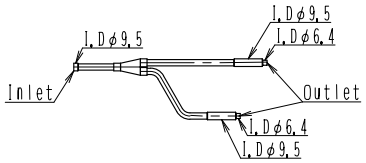
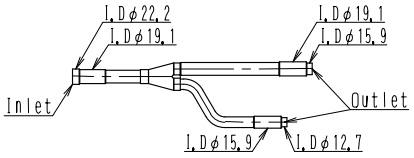
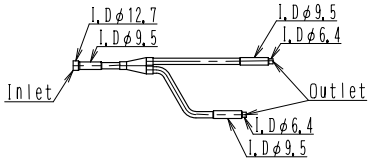
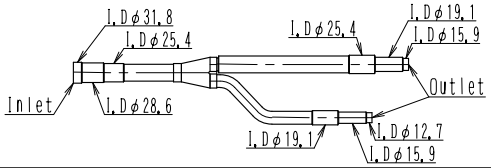
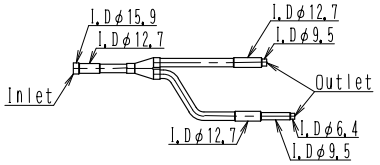
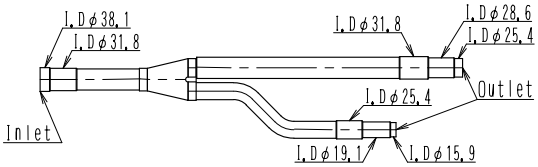
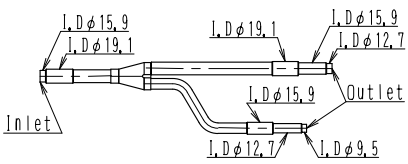
※···Make sure gas side joint and liquid side joint are for R410A. (Label for R410A is attached on each part.)

SELECTION PROCEDURE

According to the INSTALLATION MANUAL of outdoor unit.

INSTALLATION PROCEDURE

❶ The pipe size of each parts are shown below.

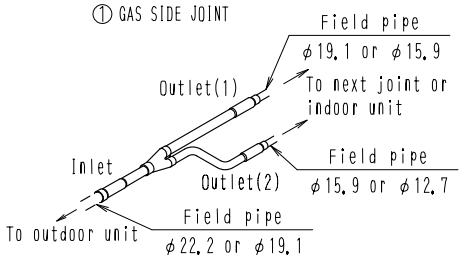
KIT NAME	GAS SIDE JOINT	LIQUID SIDE JOINT
KHRP26A 22T		
KHRP26A 33T		
KHRP26A 72T		
KHRP26A 73T		

2P182411

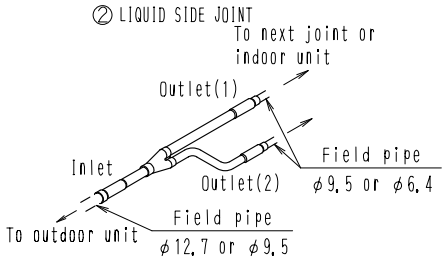
❷ According to SELECTION PROCEDURE, cut the pipe with a pipe cutter for use.

• (Ex.) FOR KHRP26A33T

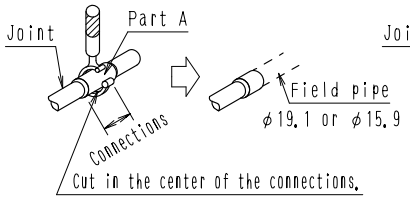
① GAS SIDE JOINT



② LIQUID SIDE JOINT

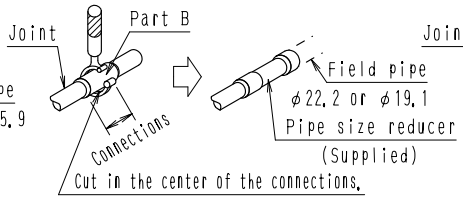


Note)For the size of inlet is φ19.1 or the size of outlet(1) is φ19.1, the size of outlet(2) is φ15.9.
• Cut the pipe with a pipe cutter.



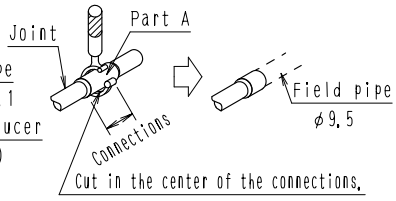
Cut in the center of the part A and connect a field pipe.

Note)For the size of outlet(1) is φ22.2 or the size of outlet(2) is φ19.1.



Cut in the center of the part B, use Pipe size reducer (supplied) and connect a field pipe.

Note)For the size of inlet is φ9.5 or the size of outlet(1) is φ9.5, the size of outlet(2) is φ9.5.
• Cut the pipe with a pipe cutter.



Cut in the center of the part A and connect a field pipe.

• Make sure to flow nitrogen gas through the pipe when brazing.

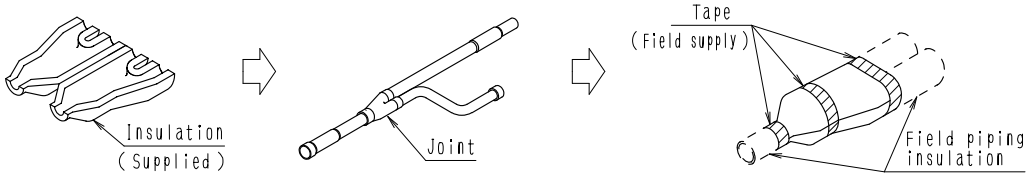
❸ Insulation of Joint

Be sure to insulate the gas and liquid side Joint.

Note) The insulation of the refrigerant piping must be reinforced based on the environment of installation. Otherwise, dew may condensate on the surface of the insulation. For details, see Engineering Data.

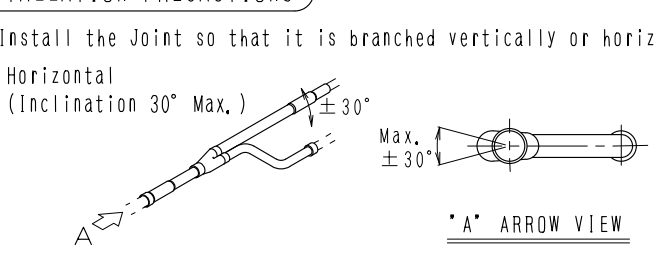
GAS SIDE
- Set the insulation matching the joint and wind the field supplied tape from the center without any clearances on the matching face of insulation.
- Seal the insulation and field piping insulation joint with the field supplied tape.

LIQUID SIDE
- Insulate by the same method as gas side joint.



INSTALLATION PRECAUTIONS

- Install the Joint so that it is branched vertically or horizontally.



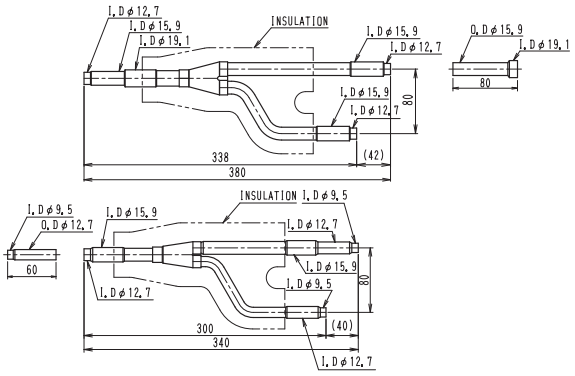
- Do not apply extra force on the piping part. The brazed part may be damaged and it may result in gas leakage.

2P182411

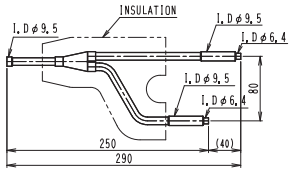
4.3 KHRP25A22·33·72·73T

KHRP25A22T

GAS SIDE JOINT



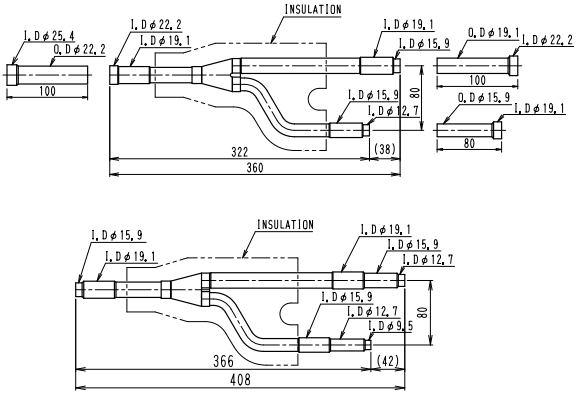
LIQUID SIDE JOINT



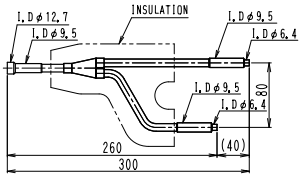
D3K05706

KHRP25A33T

GAS SIDE JOINT



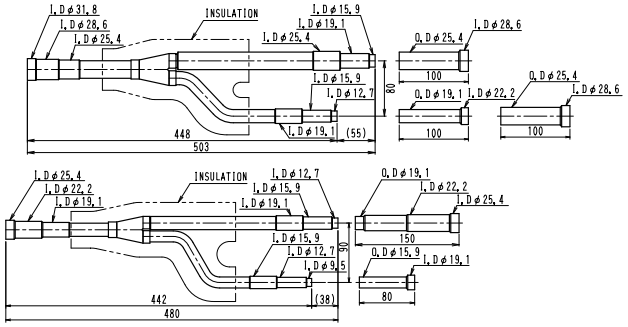
LIQUID SIDE JOINT



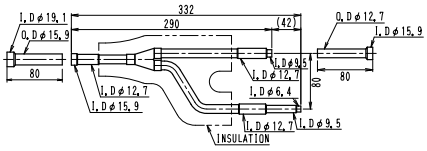
D3K05707

KHRP25A72T

GAS SIDE JOINT



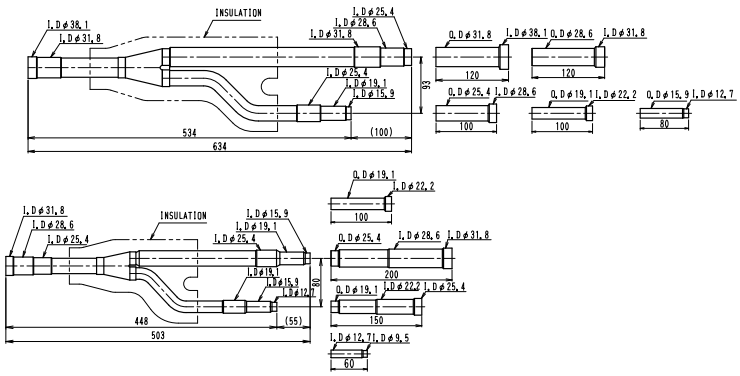
LIQUID SIDE JOINT



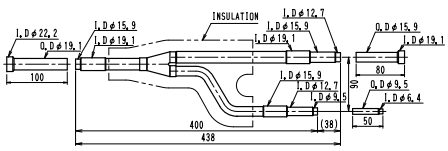
D3K05708

KHRP25A73T

GAS SIDE JOINT



LIQUID SIDE JOINT



D3K05709

Installation

THIS KIT INCLUDES THE FOLLOWING PARTS.

KIT NAME	SHAPE			
	SUCTION GAS SIDE JOINT	HP/LP GAS SIDE JOINT	LIQUID SIDE JOINT	INSULATION
KHRP25A 22T	REDUCER φ19.1	φ9.5		3 pcs.
KHRP25A 33T	REDUCER φ22.2 φ25.4 φ19.1			3 pcs.
KHRP25A 72T	REDUCER φ22.2 φ28.6 ×2pcs.	φ25.4/22.2 φ19.1	φ15.9 φ19.1	3 pcs.
KHRP25A 73T	REDUCER φ12.7 φ22.2 φ28.6 φ31.8 φ38.1	φ31.8/28.6 φ25.4/22.2 φ22.2 φ9.5	φ6.4 φ19.1 φ22.2	3 pcs.

※···Make sure suction gas side joint, HP/LP gas side and liquid side joint are for R410A. (Label for R410A is attached on each part.)

INTRODUCTION

This kit is designed as a refrigerant branching kit for HEAT RECOVERY unit for installation in buildings.

- Between outdoor unit and BS unit (upstream of BS unit), use 3 pipings. Use this kit for such branching application.
- Between BS unit and indoor unit (downstream of BS unit) and between REFNET JOINT and cooling-only indoor unit, use 2 pipings.

3 pipings	2 pipings	
Upstream of BS unit	Downstream of BS unit	To cooling-only indoor unit
Suction gas side piping HP/LP gas side piping Liquid side piping	Gas side piping Liquid side piping	Suction gas side piping Liquid side piping

SELECTION PROCEDURE

According to the INSTALLATION MANUAL of outdoor unit.

INSTALLATION PROCEDURE

❶ The pipe size of each parts are shown below.

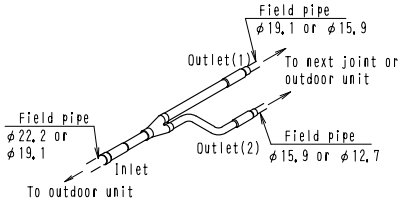
KIT NAME	SUCTION GAS SIDE JOINT	HP/LP GAS SIDE JOINT	LIQUID SIDE JOINT
KHRP25A 22T	I.D φ12.7 I.D φ15.9 I.D φ19.1 I.D φ12.7 I.D φ15.9 Inlet Outlet I.D φ15.9 I.D φ12.7	I.D φ9.5 I.D φ12.7 I.D φ15.9 I.D φ15.9 Inlet Outlet I.D φ12.7 I.D φ9.5	I.D φ9.5 I.D φ6.4 I.D φ9.5 Inlet Outlet I.D φ9.5 I.D φ6.4
KHRP25A 33T	I.D φ22.2 I.D φ19.1 I.D φ15.9 I.D φ19.1 Inlet Outlet I.D φ15.9 I.D φ12.7	I.D φ12.7 I.D φ15.9 I.D φ19.1 I.D φ15.9 I.D φ19.1 Inlet Outlet I.D φ15.9 I.D φ12.7 I.D φ9.5	I.D φ12.7 I.D φ6.4 I.D φ9.5 I.D φ9.5 Inlet Outlet I.D φ9.5 I.D φ6.4
KHRP25A 72T	I.D φ31.8 I.D φ28.6 I.D φ25.4 I.D φ15.9 I.D φ19.1 I.D φ25.4 Inlet Outlet I.D φ19.1 I.D φ15.9 I.D φ12.7	I.D φ25.4 I.D φ22.2 I.D φ19.1 I.D φ12.7 I.D φ15.9 I.D φ19.1 Inlet Outlet I.D φ15.9 I.D φ12.7 I.D φ9.5	I.D φ15.9 I.D φ12.7 I.D φ9.5 I.D φ12.7 Inlet Outlet I.D φ12.7 I.D φ9.5 I.D φ6.4
KHRP25A 73T	I.D φ38.1 I.D φ31.8 I.D φ25.4 I.D φ28.6 I.D φ31.8 Inlet Outlet I.D φ25.4 I.D φ19.1 I.D φ15.9	I.D φ31.8 I.D φ28.6 I.D φ25.4 I.D φ15.9 I.D φ19.1 I.D φ25.4 Inlet Outlet I.D φ19.1 I.D φ15.9 I.D φ12.7	I.D φ15.9 I.D φ19.1 I.D φ12.7 I.D φ15.9 I.D φ19.1 Inlet Outlet I.D φ15.9 I.D φ12.7 I.D φ9.5

3P203737

❷ According to SELECTION PROCEDURE cut the pipe with a pipe cutter for use.

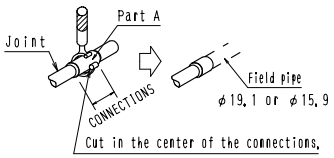
• (Ex)FOR KHRP25A33T

①SUCTION GAS SIDE JOINT

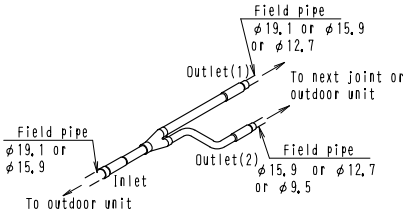


NOTE)For the size of inlet is ϕ19.1 or the size of outlet(1) is ϕ19.1 , the size of outlet(2) is ϕ15.9

• Cut the pipe with a pipe cutter.

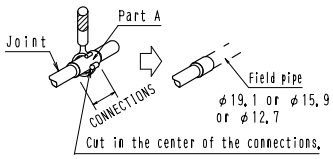


② HP/LP GAS SIDE JOINT

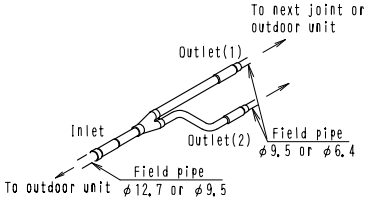


NOTE)For the size of inlet is ϕ19.1 or the size of outlet(1) is ϕ19.1 or ϕ15.9 , the size of outlet(2) is ϕ15.9 or ϕ12.7

• Cut the pipe with a pipe cutter.

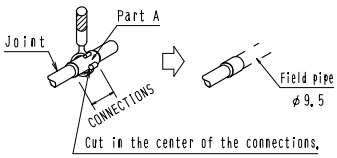


③LIQUID SIDE JOINT



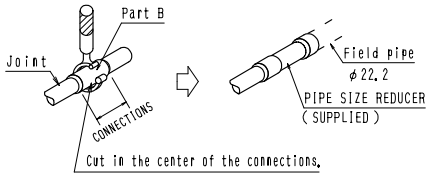
NOTE)For the size of inlet is ϕ9.5 or the size of outlet(1) or (2) is ϕ9.5

• Cut the pipe with a pipe cutter.



Cut in the center of the part A and connect a field pipe.

④ When the suction gas side pipe size of outlet(1) is ϕ22.2.



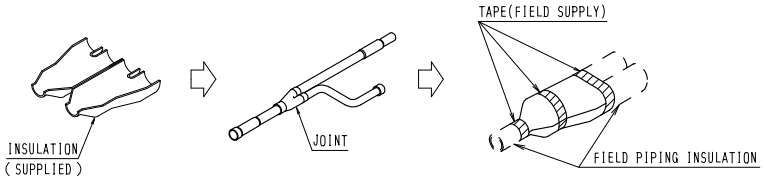
Cut the center of the part B and use PIPE SIZE REDUCER.

• Make sure to flow nitrogen gas through the pipe when brazing.

❸ Insulation of JOINT

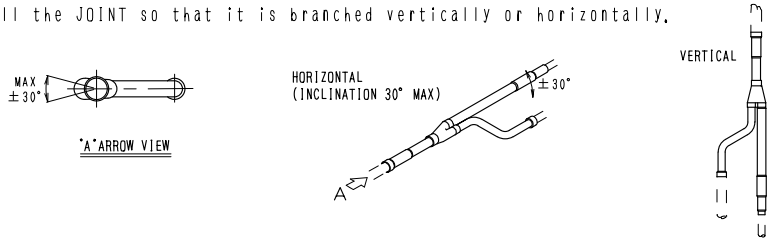
• Be sure to insulate the suction/discharge gas and liquid side JOINT.
Note) The insulation of the refrigerant piping must be reinforced based on the environment of installation. Otherwise, dew may condensate on the surface of the insulation. For details, see Engineering Data.

• Seal the insulation and field piping insulation joint with the field supplied tape.



INSTALLATION PRECAUTIONS

• Install the JOINT so that it is branched vertically or horizontally.



• Do not apply extra force on the piping part. The brazed part may be damaged and it may result in gas leakage.

3P203737