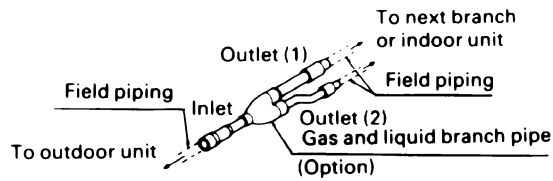


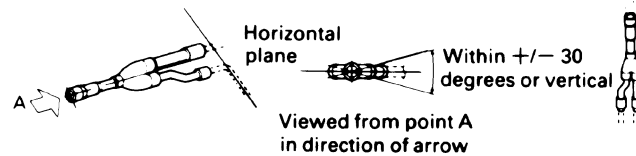
## 4.2 REFNET Joints and Headers

### 4.2.1 REFNET Joints

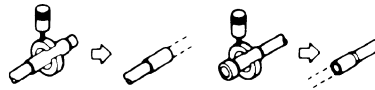
For gas and liquid branch pipes



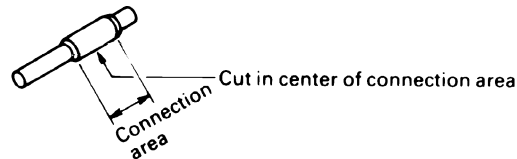
- Make sure that all branch pipes are fitted such that they branch either horizontally or vertically.



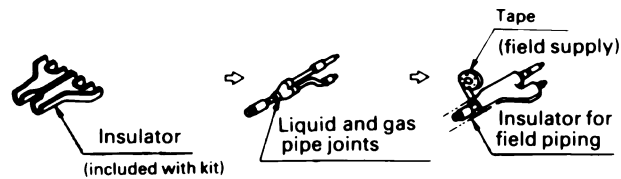
- When the size of the selected field piping is different from that of branch pipe then the connecting section should be cut with a pipe cutter as shown in the figure below.



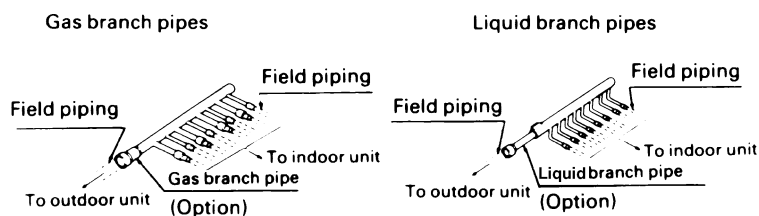
- When you are cutting an inlet or outlet pipe with a pipe cutter make sure that you make the cut in the center of the connection area.



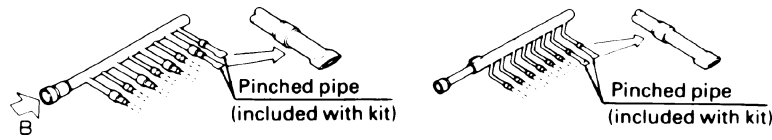
- Branch pipes must be insulated in accordance with the handbook which comes with each kit.



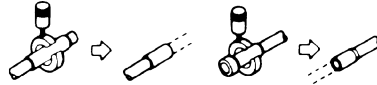
### 4.2.2 REFNET Headers



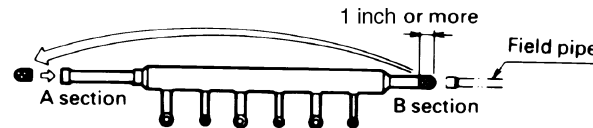
- When the number of indoor units to be connected to the branch pipes is less than the number of branch pipes available for connection then cap pipes should be fitted to the surplus branches.



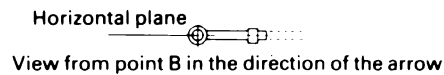
- When the size of the selected field piping is different from that of branch pipe then the connecting section should be cut with a pipe cutter as shown in the figure below.



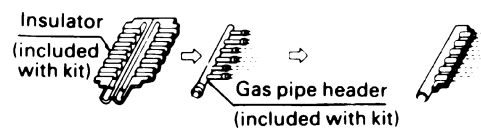
- When field piping is connected to the B section of the inlet/outlet pipe on the outside unit side of the liquid pipe header.
- Cut the B section with a pipe cutter as shown below and connect it to the A section.
- Connect the flared section of the field pipe to the B section.



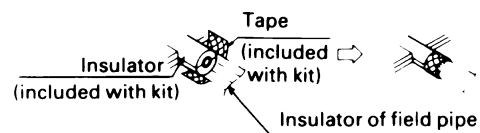
- Fit the branch pipe so that the branch lies in a horizontal plane.



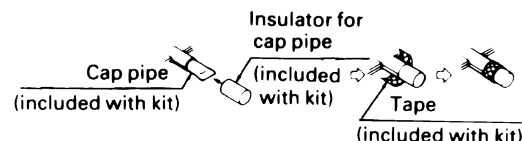
- The branch pipe must be insulated in accordance with the instruction manual which comes with each kit.
1. Use the insulator included in the kit to insulate the header.



2. Joints between insulators included in the kit and those already applied to the field piping should be sealed with the tape which is also included in each kit.



3. Any cap pipes should also be insulated using the insulator provided with each kit and then taped as described above.



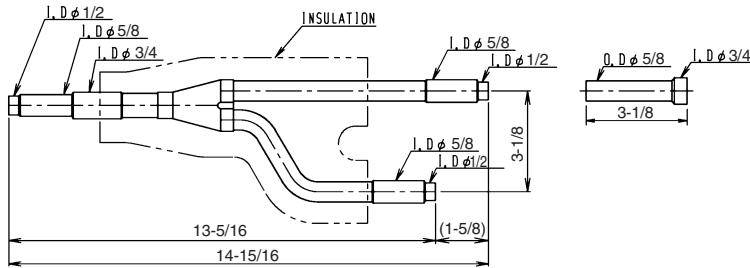
## 5. REFNET Joint and Header

### 5.1 REFNET Joint (Branch Kit)

KHRP25A22T9

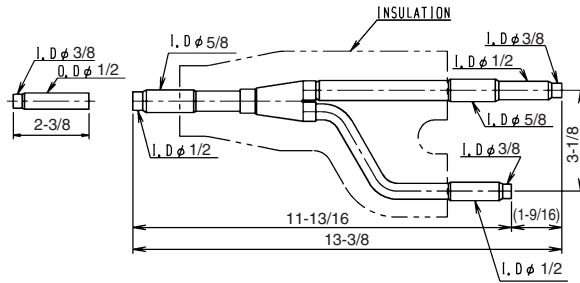
Unit: in.

SUCTION GAS SIDE JOINT

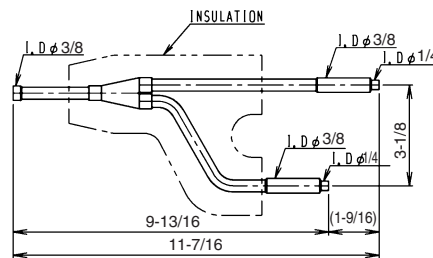


ACCESSORY  
 REDUCER : SUCTION GAS SIDE : 1pcs  
 HP/LP GAS SIDE : 1pcs  
 INSULATION : 3pcs  
 INSTALLATION MANUAL

HP/LP GAS SIDE JOINT



LIQUID SIDE JOINT

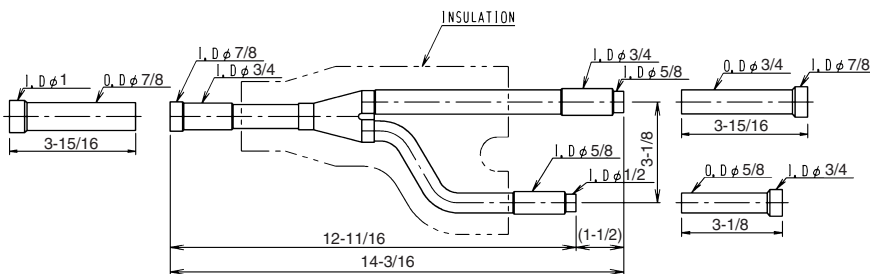


C: D3K05706

KHRP25A33T9

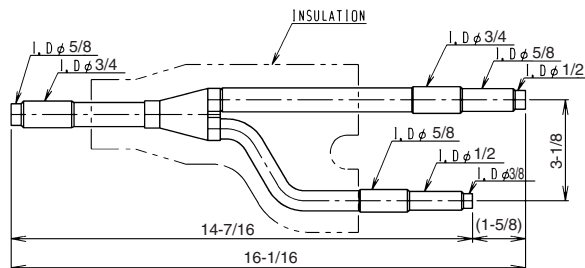
Unit: in.

SUCTION GAS SIDE JOINT

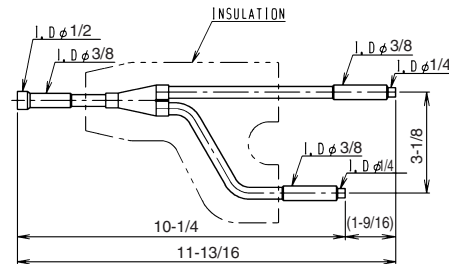


ACCESSORY  
 REDUCER : SUCTION GAS SIDE : 3pcs  
 INSULATION : 3pcs  
 INSTALLATION MANUAL

HP/LP GAS SIDE JOINT



LIQUID SIDE JOINT



C: D3K05707

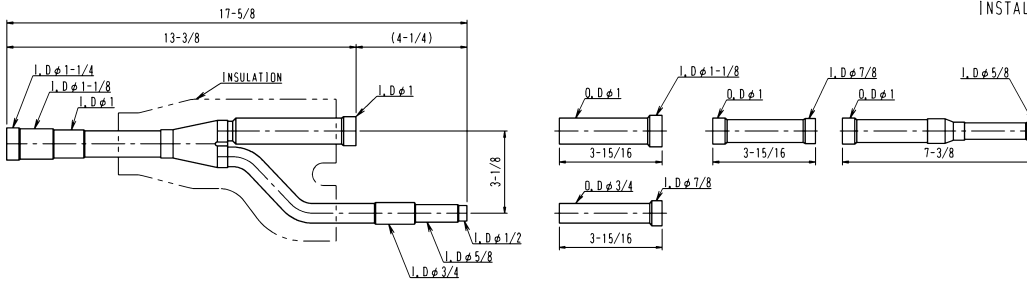
## KHRP25M72TU9

Unit: in.

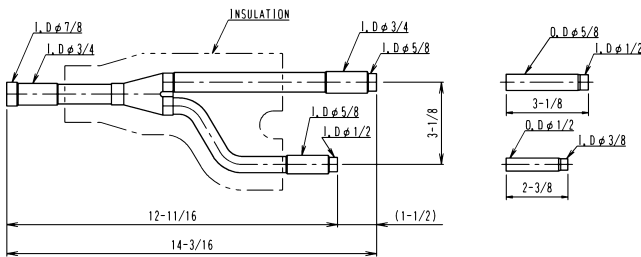
## ACCESSORIES

REDUCER: 4 pcs. (FOR SUCTION GAS SIDE)  
 : 2 pcs. (FOR DISCHARGE GAS SIDE)  
 : 2 pcs. (FOR LIQUID SIDE)  
 INSULATION: 3 pcs.  
 INSTALLATION MANUAL: 1 sheet

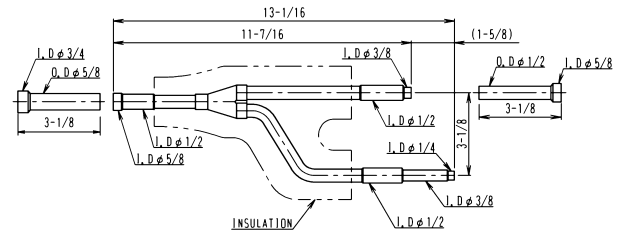
## SUCTION GAS SIDE



## DISCHARGE GAS SIDE



## LIQUID SIDE

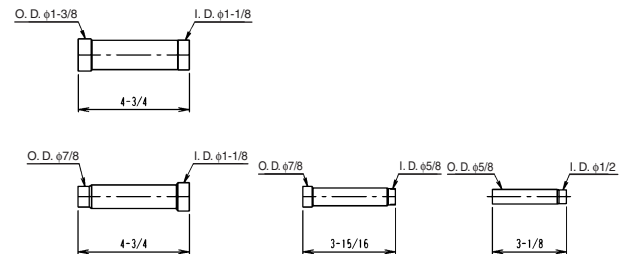
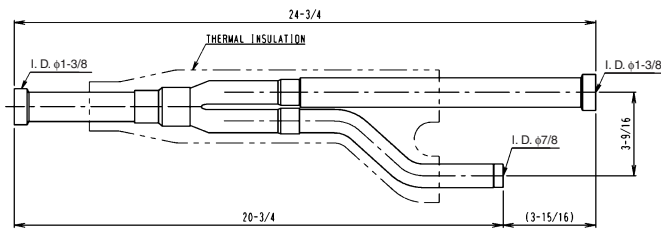


D3K04888B

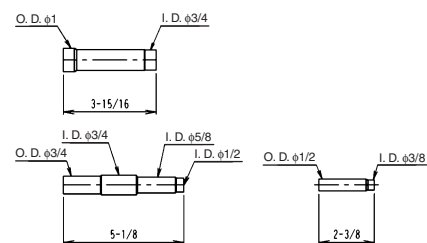
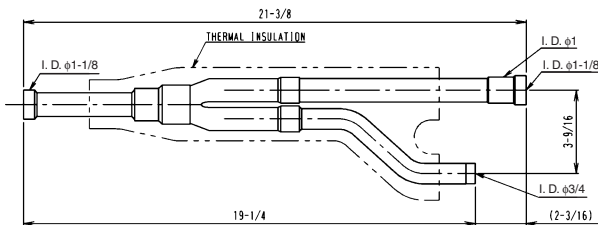
## KHRP25M73TU9

Unit: in.

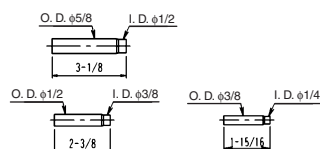
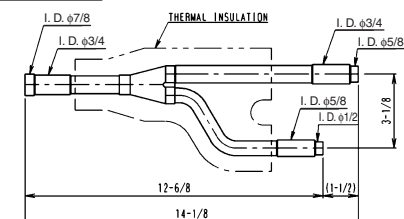
## SUCTION GAS SIDE JOINT



## DISCHARGE GAS SIDE JOINT



## LIQUID SIDE JOINT



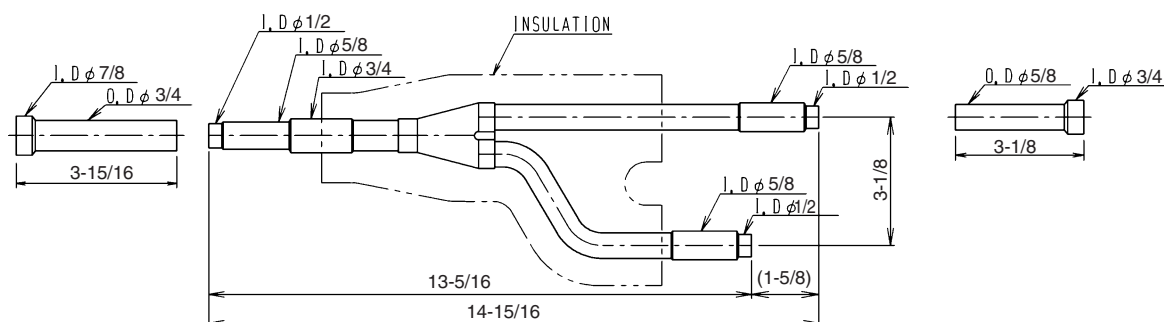
ACCESSORY  
 REDUCER: SUCTION GAS SIDE JOINT 4 PIECES  
 DISCHARGE GAS SIDE JOINT 3 PIECES  
 LIQUID SIDE JOINT 3 PIECES  
 THERMAL INSULATION: 1 SET  
 INSTALLATION MANUAL

D3K05573A

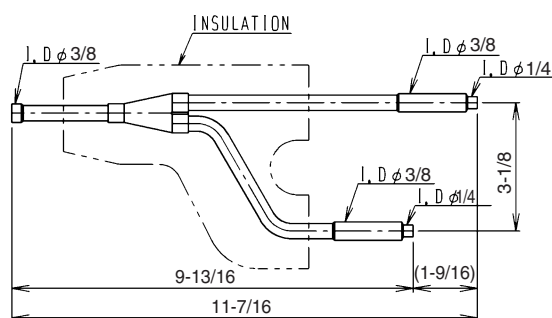
**KHRP26A22T9**

Unit: in.

GAS SIDE JOINT



## LIQUID SIDE JOINT



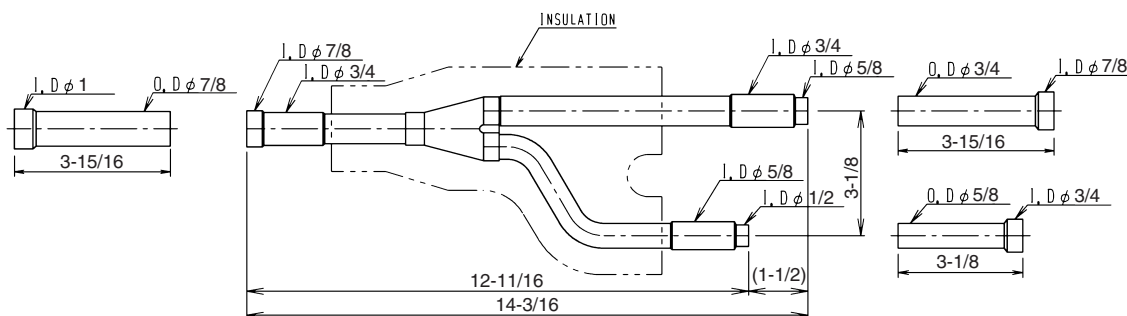
ACCESSORY  
REDUCER : GAS SIDE : 2pcs  
INSULATION : 2pcs  
INSTALLATION MANUAL

C: D3K05234A

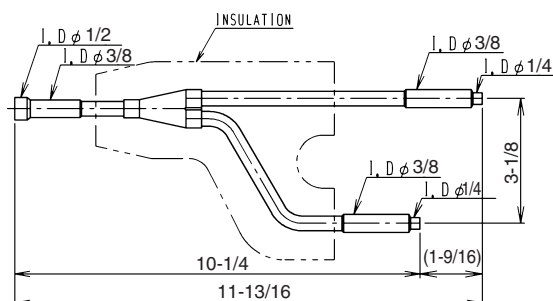
**KHRP26A33T9**

Unit: in.

## GAS SIDE JOINT



## LIQUID SIDE JOINT

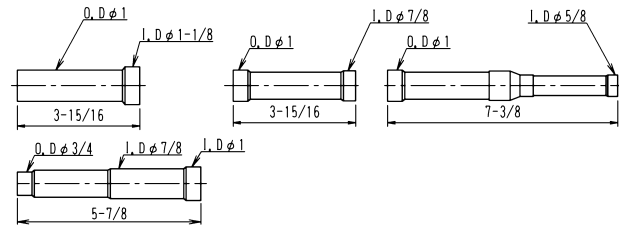
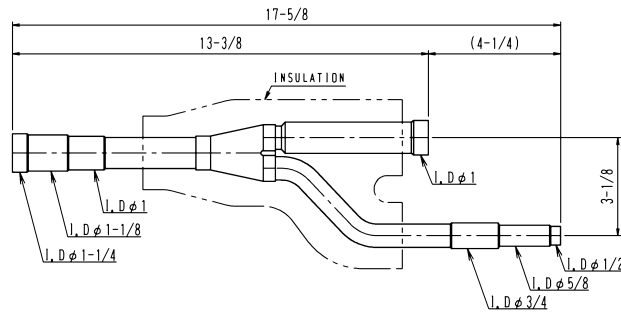


ACCESSORY  
REDUCER : GAS SIDE : 3pcs  
INSULATION : 2pcs  
INSTALLATION MANUAL

C: D3K05235B

**KHRP26M72TU9**

Unit: in.

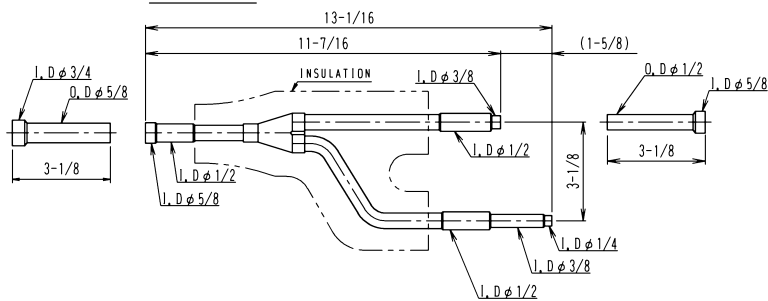
GAS SIDE**ACCESSORIES**

REDUCER: 4 pcs. (FOR GAS SIDE)

: 2 pcs. (FOR LIQUID SIDE)

INSULATION: 2 pcs.

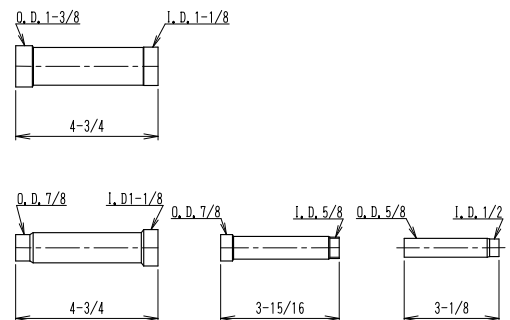
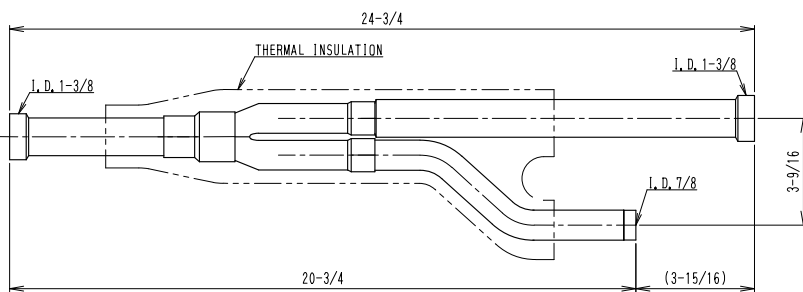
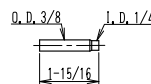
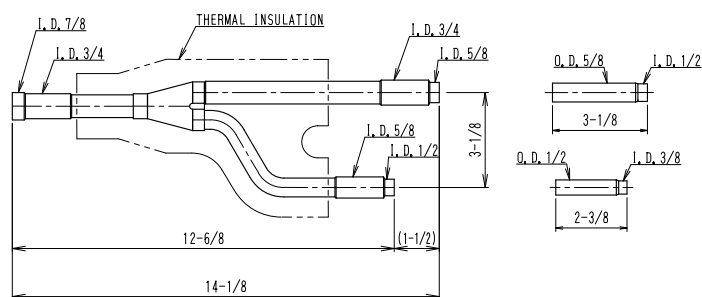
INSTALLATION MANUAL: 1 sheet

LIQUID SIDE

D3K04887A

**KHRP26M73TU9**

Unit: in.

GAS SIDE JOINTLIQUID SIDE JOINT

**ACCESSORY**  
 REDUCER: GAS SIDE JOINT 4 PIECES  
 LIQUID SIDE JOINT 3 PIECES  
 THERMAL INSULATION: 1 SET  
 INSTALLATION MANUAL

D3K05572A

## KHRP25A22T9 / KHRP25A33T9

# REFNET JOINT INSTALLATION MANUAL(Except for JAPAN)

## KHRP25A22T • 33T • 72T • 73T(FOR R410A)

■ THIS KIT INCLUDES THE FOLLOWING PARTS.

KIT NAME	S H A P E			
	SUCTION GAS SIDE JOINT	HP/LP GAS SIDE JOINT	LIQUID SIDE JOINT	INSULATION
KHRP25A 22T	 REDUCER $\phi 3/4$	 $\phi 3/8$	 $\phi 3/8$	 3 pcs.
KHRP25A 33T	 REDUCER $\phi 7/8$ $\phi 1$ $\phi 3/4$	 $\phi 3/8$	 $\phi 3/8$	 3 pcs.
KHRP25A 72T	 REDUCER $\phi 7/8$ $\phi 1-1/8 \times 2\text{pcs.}$ $\phi 3/4$	 $\phi 1-1/8$ $\phi 7/8$ $\phi 3/4$	 $\phi 5/8$ $\phi 3/4$	 3 pcs.
KHRP25A 73T	 REDUCER $\phi 1/2$ $\phi 7/8$ $\phi 1-1/8$ $\phi 1-1/4$ $\phi 1-1/2$	 $\phi 1-1/4$ $\phi 1-1/8$ $\phi 7/8$ $\phi 3/8$	 $\phi 1/4$ $\phi 3/4$ $\phi 7/8$	 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 Branch Selector unit (upstream of Branch Selector unit), use 3 pipings. Use this kit for such branching application.
- Between Branch Selector unit and indoor unit (downstream of Branch Selector unit) and between REFNET JOINT and cooling-only indoor unit, use 2 pipings.

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

### SELECTION PROCEDURE

According to the INSTALLATION MANUAL of outdoor unit,

### INSTALLATION PROCEDURE

- 1 The pipe size of each parts are shown below.

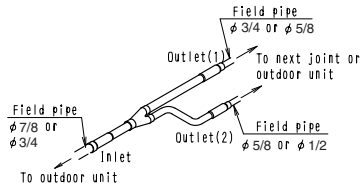
KIT NAME	SUCTION GAS SIDE JOINT	HP/LP GAS SIDE JOINT	LIQUID SIDE JOINT
KHRP25A 22T			
KHRP25A 33T			
KHRP25A 72T			
KHRP25A 73T			

C: 3P203737-1

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

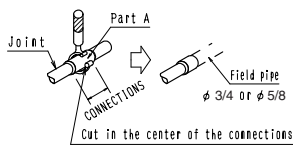
### • (Ex) FOR KHRP25A33T

#### ① SUCTION GAS SIDE JOINT

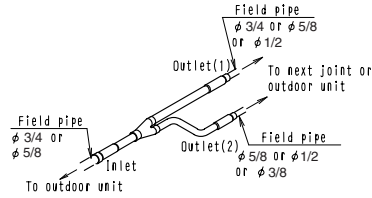


NOTE) For the size of inlet is  $\phi 3/4$  or the size of outlet(1) is  $\phi 3/4$ , the size of outlet(2) is  $\phi 5/8$ .

- Cut the pipe with a pipe cutter,

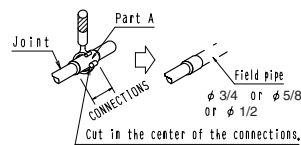


#### ② HP/LP GAS SIDE JOINT



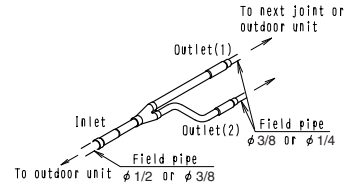
NOTE) For the size of inlet is  $\phi 3/4$  or the size of outlet(1) is  $\phi 3/4$  or  $\phi 5/8$ , the size of outlet(2) is  $\phi 5/8$  or  $\phi 1/2$ .

- Cut the pipe with a pipe cutter,



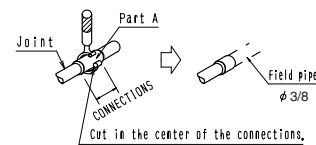
Cut in the center of the part A and connect a field pipe.

#### ③ LIQUID SIDE JOINT

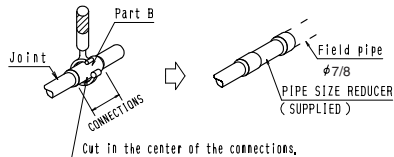


NOTE) For the size of inlet is  $\phi 3/8$  or the size of outlet(1) or (2) is  $\phi 3/8$ .

- Cut the pipe with a pipe cutter,



#### ④ When the suction gas side pipe size of outlet(1) is $\phi 7/8$ .

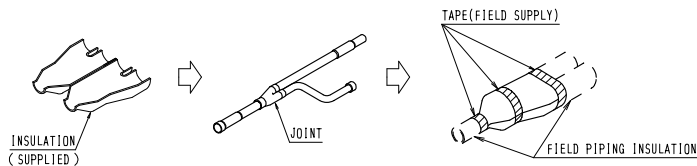


Cut the center of the part B and use PIPE SIZE REDUCER,

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

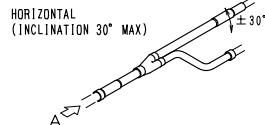
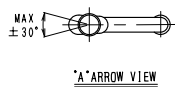
## ③ Insulation of JOINT

- 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.

C: 3P203737-1



## KHRP26A22T9 / KHRP26A33T9

# REFNET JOINT INSTALLATION MANUAL(Except for JAPAN)

## KHRP26A22T • 33T • 72T • 73T(FOR R410A)

■ THIS KIT INCLUDES THE FOLLOWING PARTS.

KIT NAME	S H A P E					
	GAS SIDE JOINT	LIQUID SIDE JOINT	INSULATION	REDUCER(FOR GAS PIPE)		REDUCER(FOR LIQUID PIPE)
KHRP26A 22T			 2 pcs.	 φ3/4	 φ7/8	
KHRP26A 33T			 2 pcs.	 φ3/4	 φ7/8	 φ1
KHRP26A 72T			 2 pcs.	 φ7/8	 φ1/φ7/8	 φ1-1/8 2 PCS.
KHRP26A 73T			 2 pcs.	 φ1/2	 φ7/8	 φ1-1/8

\*...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

① The pipe size of each parts are shown below.

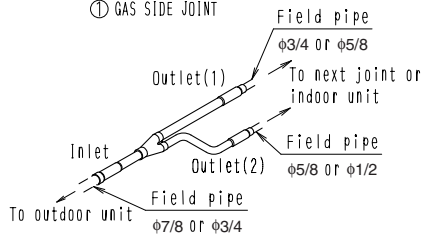
KIT NAME	GAS SIDE JOINT	LIQUID SIDE JOINT
KHRP26A 22T		
KHRP26A 33T		
KHRP26A 72T		
KHRP26A 73T		

C: 2P182411-1

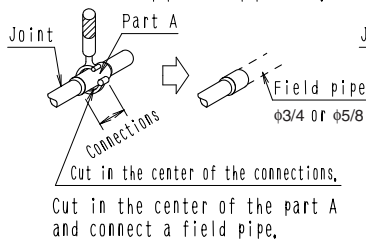
## ② According to SELECTION PROCEDURE, cut the pipe with a pipe cutter for use.

• (Ex.) FOR KHRP26A33T

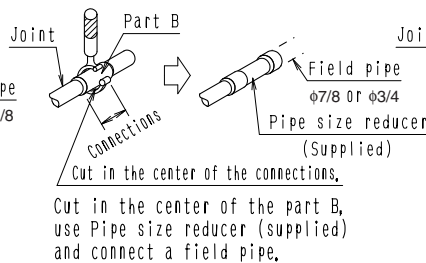
### ① GAS SIDE JOINT



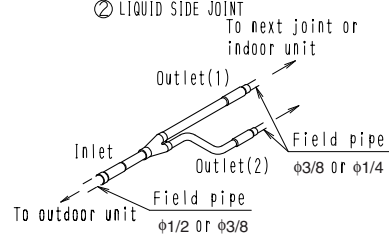
Note) For the size of inlet is  $\phi 3/4$  or the size of outlet(1) is  $\phi 3/4$ , the size of outlet(2) is  $\phi 5/8$ .  
• Cut the pipe with a pipe cutter.



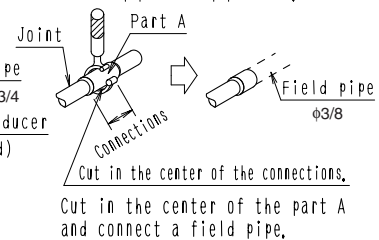
Note) For the size of outlet(1) is  $\phi 7/8$  or the size of outlet(2) is  $\phi 3/4$ .



### ② LIQUID SIDE JOINT



Note) For the size of inlet is  $\phi 3/8$  or the size of outlet(1) is  $\phi 3/8$ , the size of outlet(2) is  $\phi 3/8$ .  
• Cut the pipe with a pipe cutter.



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

## ③ Insulation of Joint

Be sure to insulate the gas and liquid side Joint.

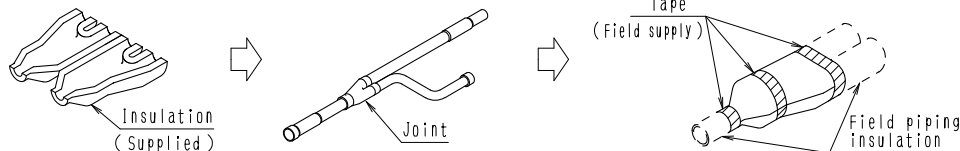
Note) The insulation of the refrigerant piping must be reinforced based on the environment of installation. Otherwise, dew may condensate on the surface of the insulation. For details, see Engineering Data.

### 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.

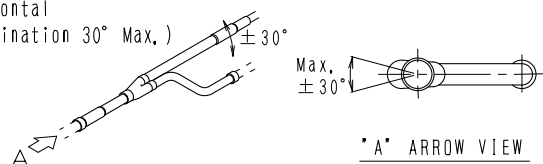


## INSTALLATION PRECAUTIONS

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

Horizontal

(Inclination 30° Max.)



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

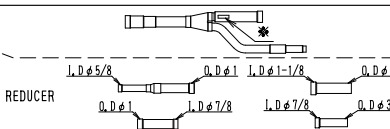
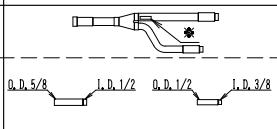
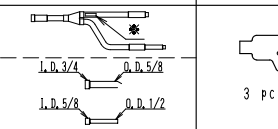

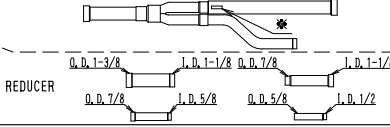
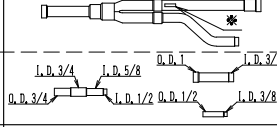
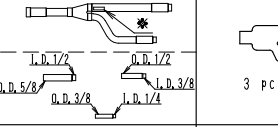

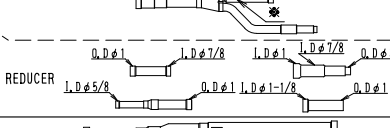
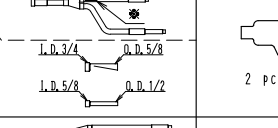

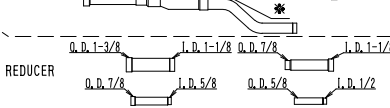
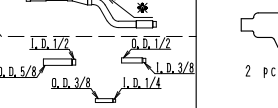

C: 2P182411-1

## KHRP25M72TU9 / KHRP25M73TU9 / KHRP26M72TU9 / KHRP26M73TU9

## REFNET JOINT INSTALLATION MANUAL

KHRP25M72TU・73TU, KHRP26M72TU・73TU(FOR R-410A)

■ These kits include the following parts.

KIT NAME	S H A P E			
	SUCTION GAS SIDE JOINT / GAS SIDE JOINT	DISCHARGE GAS SIDE JOINT	LIQUID SIDE JOINT	INSULATION
KHRP 25M72TU				 3 pcs.
KHRP 25M73TU				 3 pcs.
KHRP 26M72TU		/		 2 pcs.
KHRP 26M73TU				 2 pcs.

※※※Make sure all of the joints are for R410A. (The label for R410A is attached on each joint.)

## APPLICATION

• Choose between the two kits according to the system and the location.

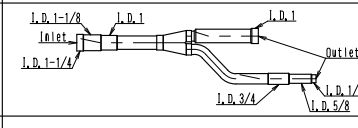
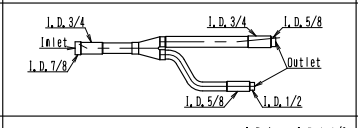
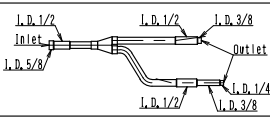
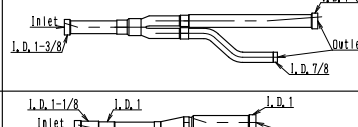
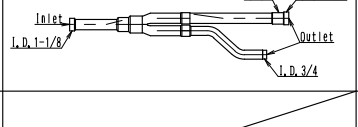
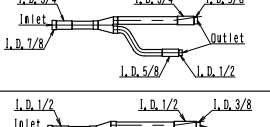
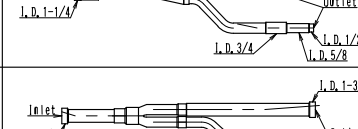
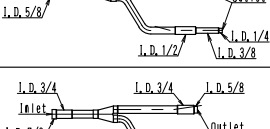
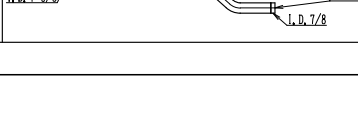
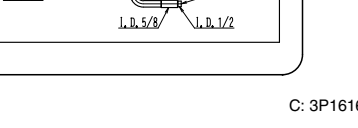
SYSTEM	HEAT PUMP		HEAT RECOVERY	
	KHRP26M72TU・73TU(2 pipings)	KHRP25M72TU・73TU(3 pipings)	KHRP26M72TU・73TU(2 pipings)	
LOCATION	Outdoor unit-indoor units	Upstream of Branch Selector units	Downstream of Branch Selector units	To cooling-only indoor unit
REFRIGERANT PIPING	Gas side piping Liquid side piping	Suction gas side piping Discharge gas side piping Liquid side piping	Gas side piping Liquid side piping	Suction gas side piping Liquid side piping

## SELECTION PROCEDURE

• Refer to the installation manual of outdoor unit.

## INSTALLATION PROCEDURE

## ① Inlet and outlet sizes of the joints

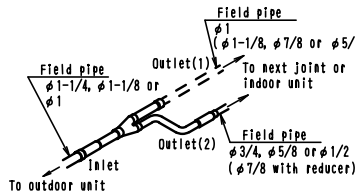
KIT NAME	(SUCTION) GAS SIDE JOINT	DISCHARGE GAS SIDE JOINT	LIQUID SIDE JOINT
KHRP 25M72TU			
KHRP 25M73TU			
KHRP 26M72TU		/	
KHRP 26M73TU			

C: 3P161697-1D

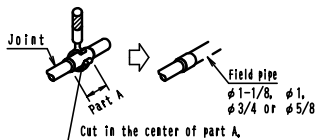
## ② According to SELECTION PROCEDURE, cut the pipe with a pipe cutter and / or use the reducer.

• (Ex) FOR KHRP25M72TU

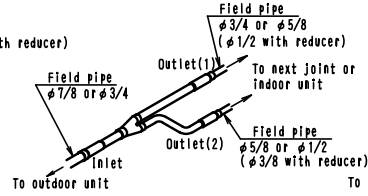
### ① SUCTION GAS SIDE JOINT



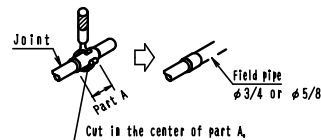
NOTE) In case of the field pipe size of inlet is  $\phi 1-1/8$  or  $\phi 1$ , and the field pipe size of outlet(2) is  $\phi 3/4$  or  $\phi 5/8$ , cut the pipe with a pipe cutter.



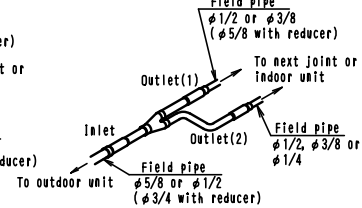
### ② DISCHARGE GAS SIDE JOINT



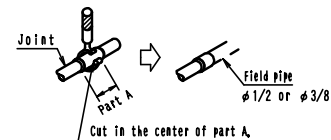
NOTE) In case of the field pipe size of inlet is  $\phi 3/4$ , the field pipe size of outlet(1) is  $\phi 3/4$ , and the field pipe size of outlet(2) is  $\phi 5/8$ , cut the pipe with a pipe cutter.



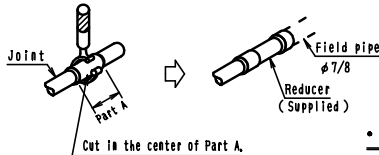
### ③ LIQUID SIDE JOINT



NOTE) In case of the field pipe size of inlet is  $\phi 1/2$ , the field pipe size of outlet(1) is  $\phi 1/2$ , and the field pipe size of outlet(2) is  $\phi 1/2$  or  $\phi 3/8$ , cut the pipe with a pipe cutter.



④ When the suction gas side field pipe size of outlet(2) is  $\phi 7/8$ , cut the center of part A and use the supplied reducer.  
 Do the same way when the reducer is needed for discharge gas side field pipe and liquid side field pipe.



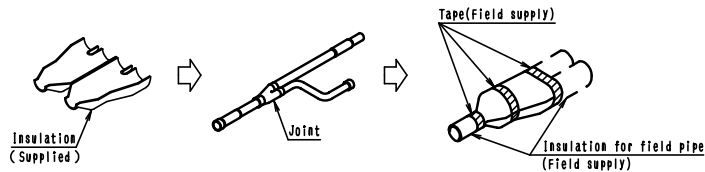
• Make sure to do nitrogen gas blowing through the pipe when brazing.

## ③ Insulation of joint

• Be sure to insulate all of the joints.

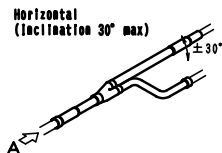
Note) The insulation of the refrigerant piping must be reinforced based on the environment of installation. Otherwise, dew may condensate on the surface of the insulation. For details, see Engineering Data.

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



## PRECAUTIONS OF INSTALLING

• Install the joint vertically or horizontally.



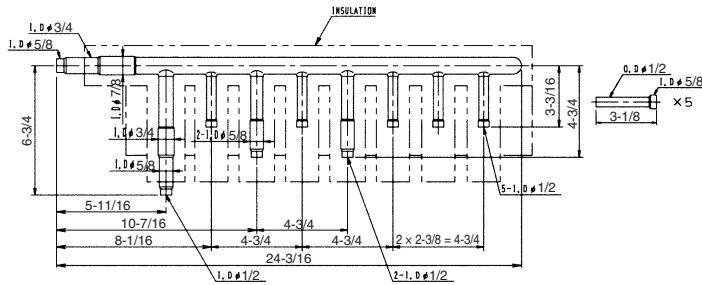
• Do not apply extra force on the piping part. The brazed part may be damaged and it may result in gas leakage.

## 5.2 REFNET Header (Branch Kit)

### KHRP25M33H9

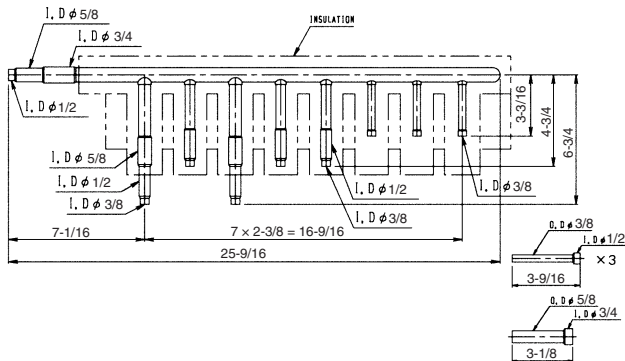
Unit: in.

#### SUCTION GAS SIDE

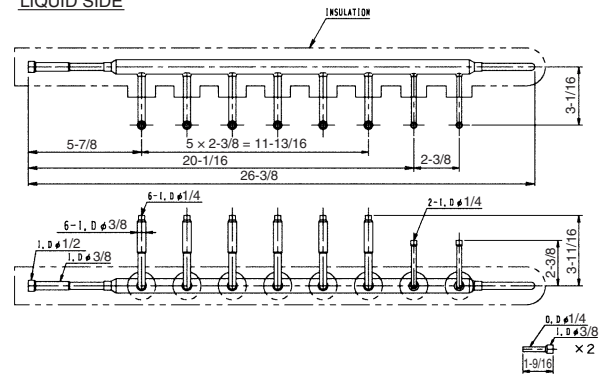


ACCESSORY  
 REDUCER : SUCTION GAS SIDE : 5pcs  
 HP/LP GAS SIDE : 4pcs  
 LIQUID SIDE : 2pcs  
 PLUGGING TUBE : 1 set  
 INSULATION : 1set  
 INSTALLATION MANUAL

#### HP/LP GAS SIDE



#### LIQUID SIDE

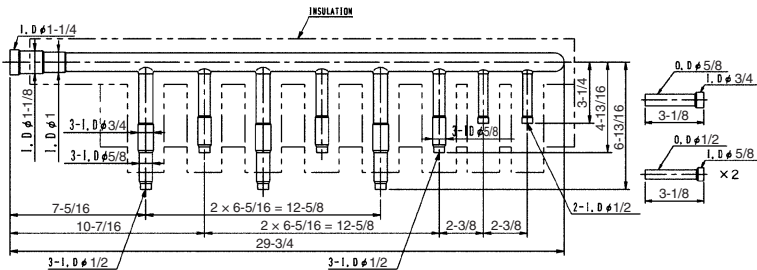


C: D3K03633D

### KHRP25M72H9

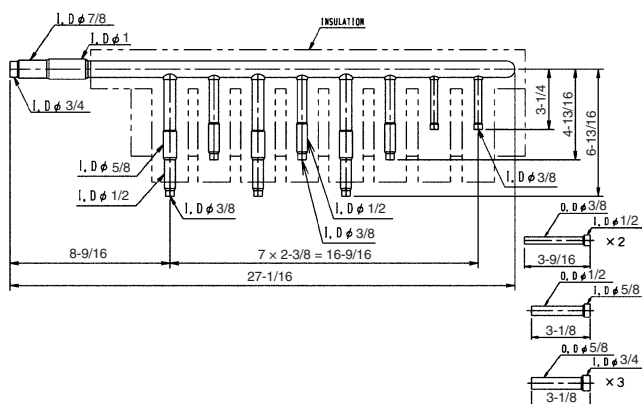
Unit: in.

#### SUCTION GAS SIDE

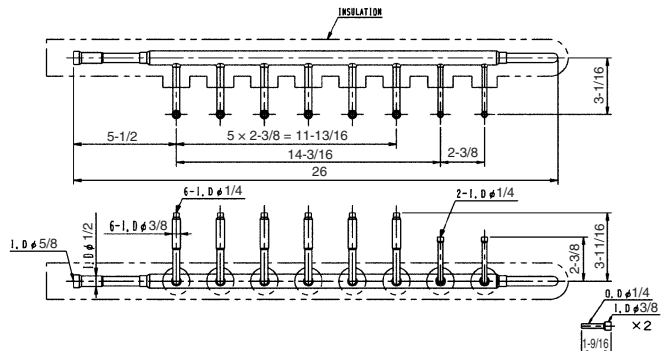


ACCESSORY  
 REDUCER : SUCTION GAS SIDE : 3pcs  
 HP/LP GAS SIDE : 6pcs  
 LIQUID SIDE : 2pcs  
 PLUGGING TUBE : 1 set  
 INSULATION : 1set  
 INSTALLATION MANUAL

#### HP/LP GAS SIDE



#### LIQUID SIDE

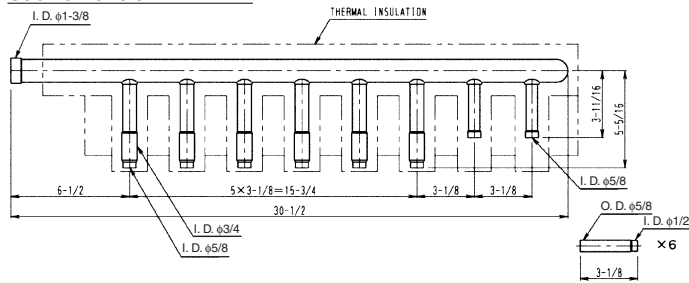


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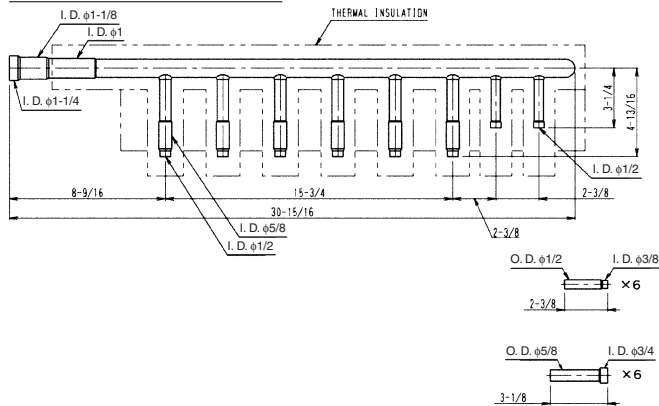
## KHP25M73HU9

Unit: in.

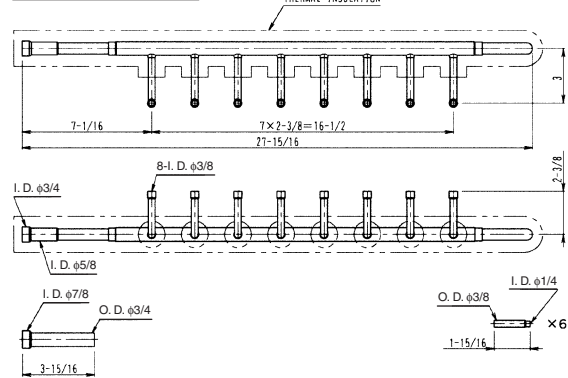
## SUCTION GAS SIDE HEADER



## DISCHARGE GAS SIDE HEADER



## LIQUID SIDE HEADER

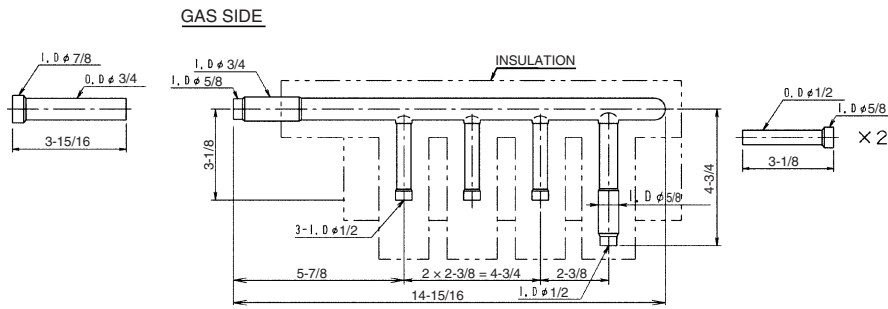


ACCESSORY  
 REDUCER: SUCTION GAS SIDE JOINT 6 PIECES  
 DISCHARGE GAS SIDE JOINT 12 PIECES  
 LIQUID SIDE JOINT 7 PIECES  
 PLUGGING TUBE: 1 SET  
 THERMAL INSULATION: 1 SET  
 INSTALLATION MANUAL

D3K05575

## KHRP26M22H9

Unit: in.

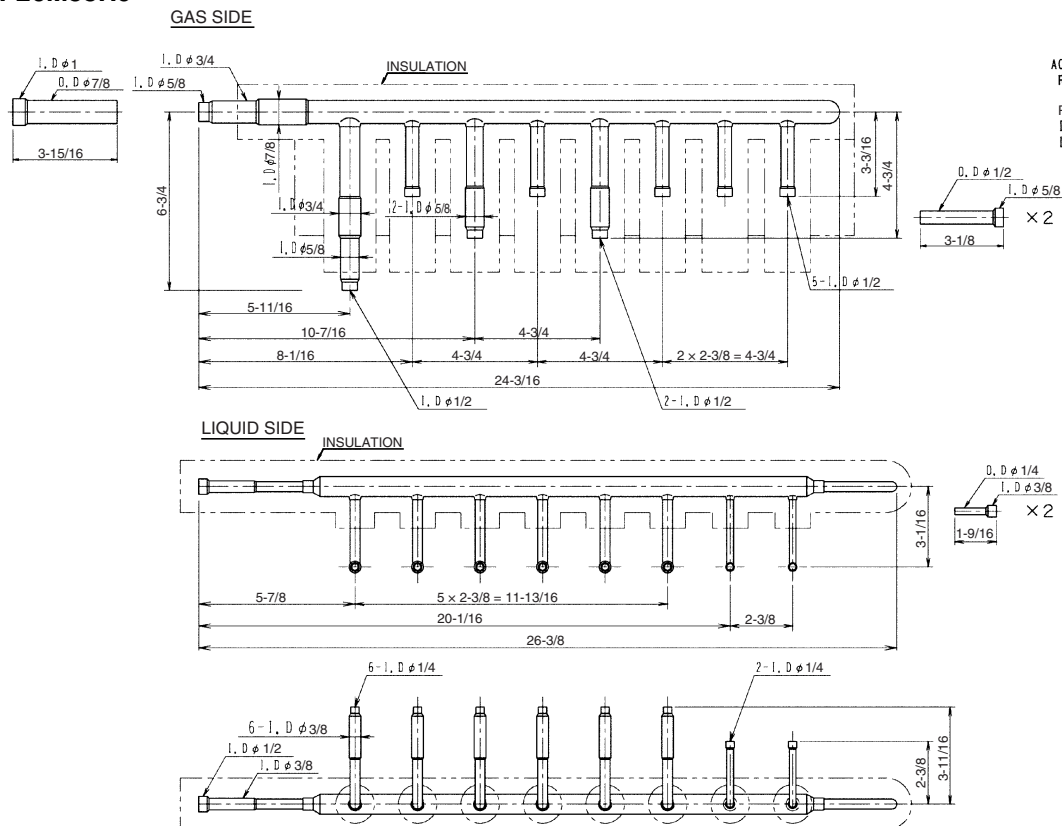


ACCESSORY  
 REDUCER : GAS SIDE : 3pcs  
 LIQUID SIDE : 2pcs  
 PLUGGING TUBE : 1 set  
 INSULATION : 1set  
 INSTALLATION MANUAL

JC: D3K03629C

## KHRP26M33H9

Unit: in.

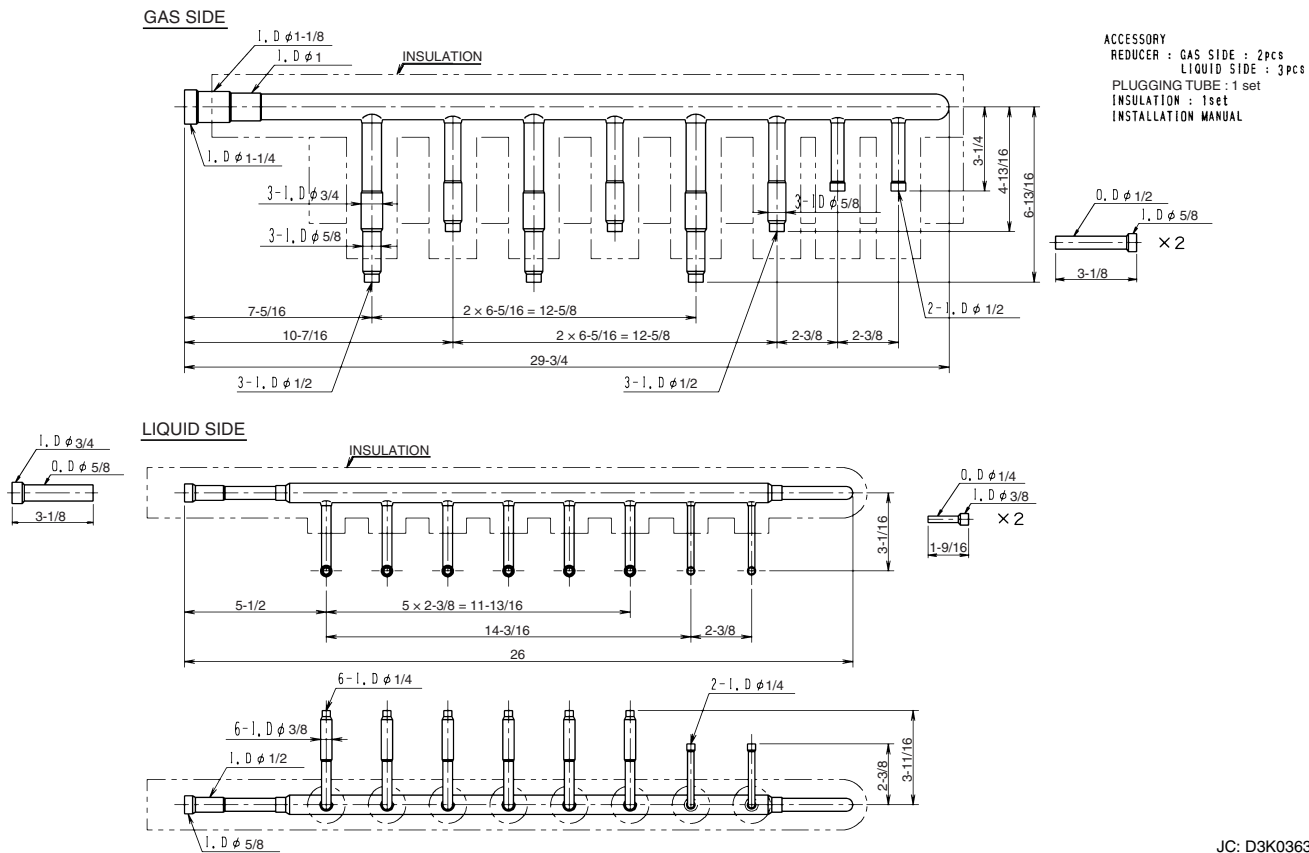


ACCESSORY  
 REDUCER : GAS SIDE : 3pcs  
 LIQUID SIDE : 2pcs  
 PLUGGING TUBE : 1 set  
 INSULATION : 1set  
 INSTALLATION MANUAL

JC: D3K03630C

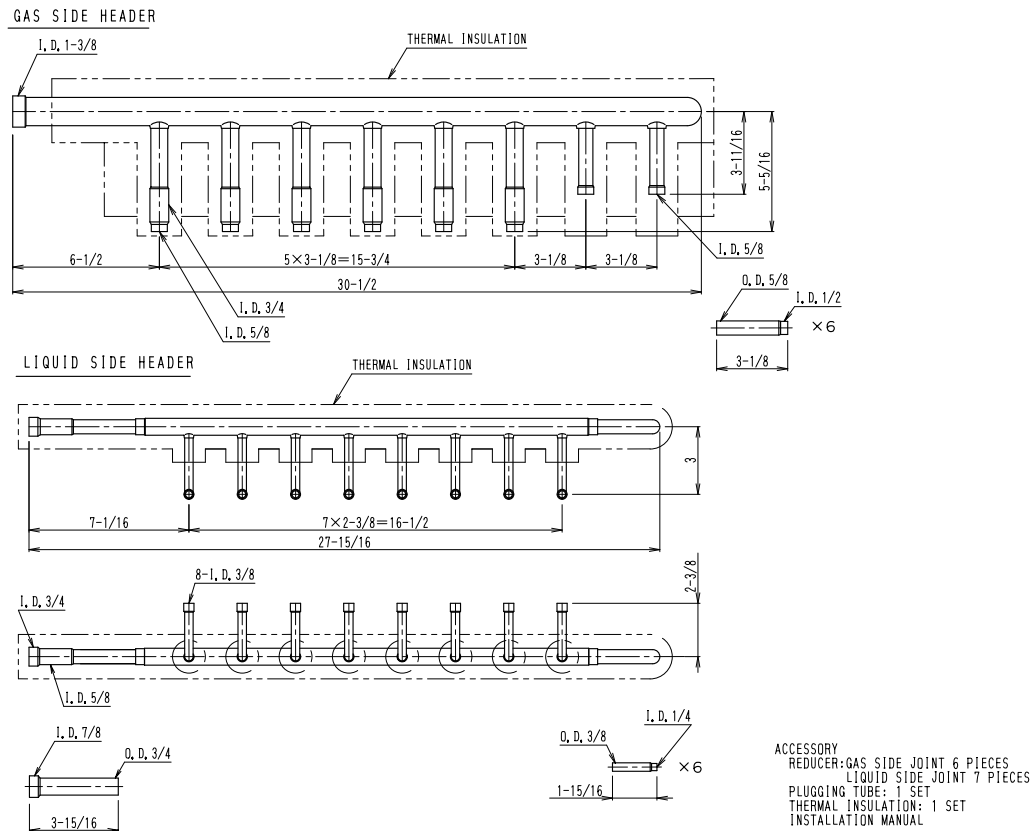
## KHRP26M72H9

Unit: in.



## KHRP26M73HU9

Unit: in.

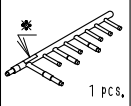
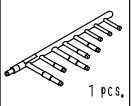
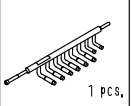
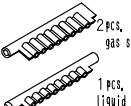
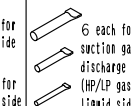
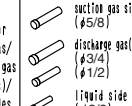
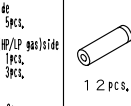
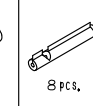
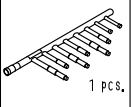
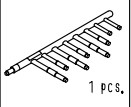
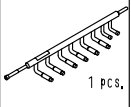
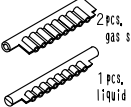
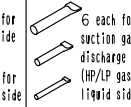
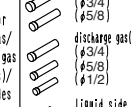
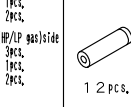
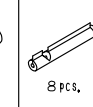
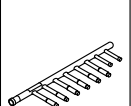
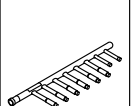
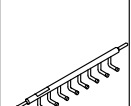
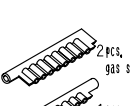
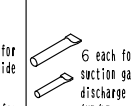
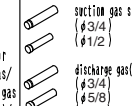
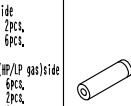
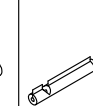




## KHRP25M33H9 / KHRP25M72H9

REFNET HEADER INSTALLATION MANUAL(Except for JAPAN)  
KHRP25M33H • 72H • 73H(FOR R410A)

## ■ THIS KIT INCLUDES THE FOLLOWING PARTS.

KIT NAME	S H A P E							
	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.	 2 pcs, for gas side 1 pcs, for liquid side	 6 each for suction gas/discharge gas (HP/LP gas)/liquid sides	 suction gas side (φ5/8) 5pcs, discharge gas(HP/LP gas)side (φ3/4) 1pcs, liquid side (φ3/8) 2pcs	 1 2 pcs.	 8 pcs.
KHRP 25M72H 8branches	 1 pcs.	 1 pcs.	 1 pcs.	 2 pcs, for gas side 1 pcs, for liquid side	 6 each for suction gas/discharge gas (HP/LP gas)/liquid sides	 suction gas (φ3/4) 1pcs, discharge gas(HP/LP gas)side (φ3/4) 3pcs, liquid side (φ3/8) 2pcs	 1 2 pcs.	 8 pcs.
KHRP 25M73H 8branches	 1 pcs.	 1 pcs.	 1 pcs.	 2 pcs, for gas side 1 pcs, for liquid side	 6 each for suction gas/discharge gas (HP/LP gas)/liquid sides	 suction gas side (φ3/4) 2pcs, discharge gas(HP/LP gas)side (φ3/4) 6pcs, liquid side (φ7/8) 1pcs, (φ1/4) 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 Branch Selector unit (upstream of Branch Selector unit), use 3 pipings. Use this kit for such branching application.
- Between Branch Selector unit and indoor unit (downstream of Branch Selector unit) and between REFNET HEADER and cooling-only indoor unit, use 2 pipings.

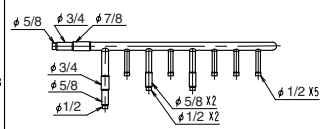
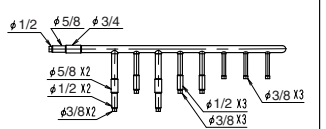
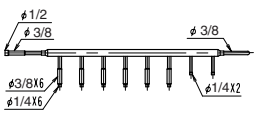
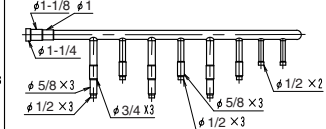
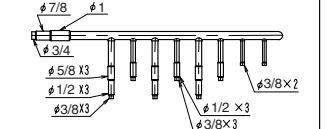
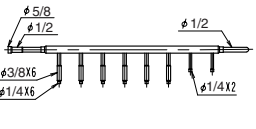
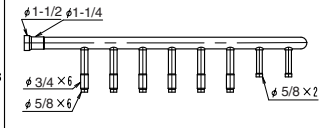
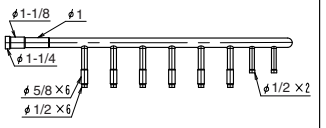
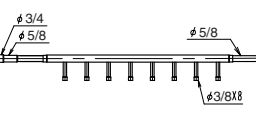
3 pipings		2 pipings	
Upstream of Branch Selector unit	Downstream of Branch Selector unit	To cooling-only indoor unit	
Suction gas side piping	Gas side piping	Suction gas side piping	
Discharge gas(HP/LP gas) side piping	Liquid side piping	Liquid side piping	
Liquid side piping			

## SELECTION PROCEDURE

According to the INSTALLATION MANUAL of outdoor unit.

## INSTALLATION PROCEDURE

- ① 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			
KHRP 25M72H 8branches			
KHRP 25M73H 8branches			

C: 3P113623-1D

- ② 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.

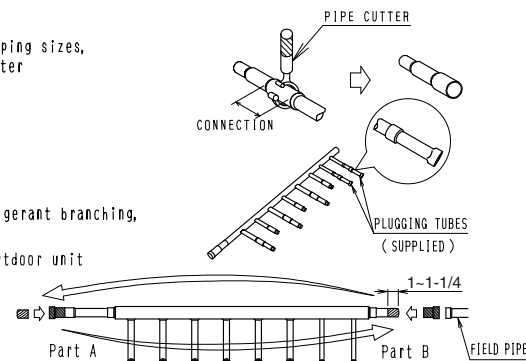
2. PIPE SIDE REDUCER

ex) When connecting the field pipe( $\phi 7/8$ ) to inlet liquid side pipe of KHRP25M73H, use PIPE SIDE REDUCER.

- ③ 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.

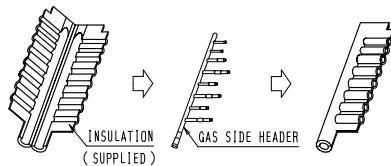
- ④ Insulation of HEADER

• Be sure to insulate the gas and liquid side HEADER.

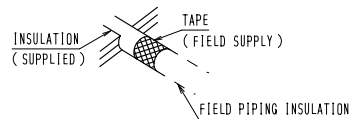
Note) The insulation of the refrigerant piping must be reinforced based on the environment of installation. Otherwise, dew may condensate on the surface of the insulation. For details, see Engineering Data.

**SUCTION/DISCHARGE GAS SIDE HEADER**

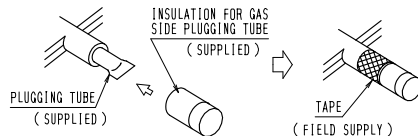
- i) Insulate the gas side header with the supplied insulation.



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

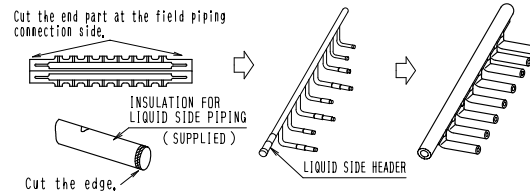


- iii) Seal the plugging tube mounting part with the field supplied tape after installing the supplied insulation for the supplied plugging tube.

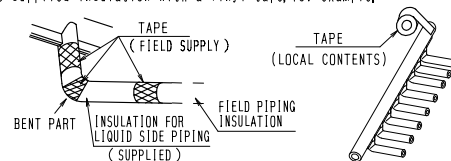


**LIQUID SIDE HEADER**

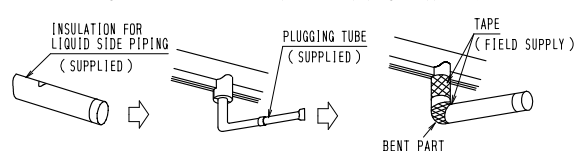
- i) Insulate the header using the insulation for header and the insulation for liquid side piping.



- 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).

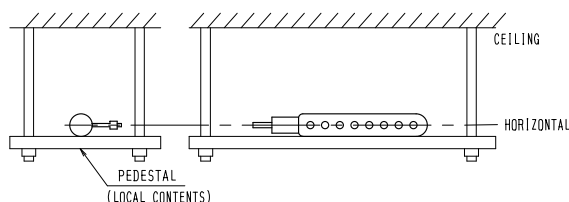


**INSTALLATION PROCEDURE**

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

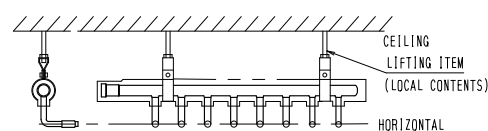
**SUCTION/DISCHARGE GAS SIDE HEADER**

- 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.



C: 3P113623-1D

## KHRP26M22H9 / KHRP26M33H9 / KHRP26M72H9

# REFNET HEADER INSTALLATION MANUAL(Except for JAPAN)

## KHRP26M22H • 33H • 72H • 73H(FOR R410A)

### ■ THIS KIT INCLUDES THE FOLLOWING PARTS.

KIT NAME	S H A P E						
	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 (φ7/8)1pcs, (φ5/8)2pcs, for liquid sides (φ3/8) 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 (φ1)1pcs, (φ5/8)2pcs, for liquid sides (φ3/8) 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 (φ5/8) 2pcs, for liquid sides (φ3/4)1pcs, (φ3/8)2pcs,	 1 each for gas/liquid sides	 6 pcs.	 8 pcs.
KHRP 26M73H 8branches	 1 pcs.	 1 pcs.	 6 each for gas/liquid sides	 6 pcs, for gas sides(φ1/2) for liquid sides (φ1/4)6pcs, (φ7/8)1pcs,	 1 each for gas/liquid sides	 6 pcs.	 8 pcs.

\*...Make sure gas side header and liquid side header are for R-410A. (Label for R-410A is attached on each part.)

### SELECTION PROCEDURE

According to the INSTALLATION MANUAL of outdoor unit.

### INSTALLATION PROCEDURE

- ① The pipe size of each parts are shown below.

KIT NAME	GAS SIDE HEADER	LIQUID SIDE HEADER
KHRP26M22H 4branches		
KHRP26M33H 8branches		
KHRP26M72H 8branches		
KHRP26M73H 8branches		

C: 3P113151-1C

- ② 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.

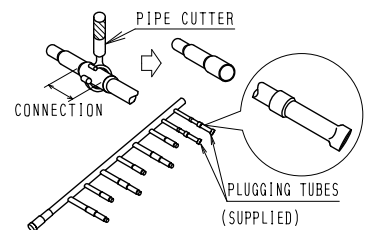
2. PIPE SIDE REDUCER

ex) When connecting the field pipe (φ7/8) to inlet liquid side pipe of KHRP26M73H, use PIPE SIDE REDUCER.

- ③ 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.

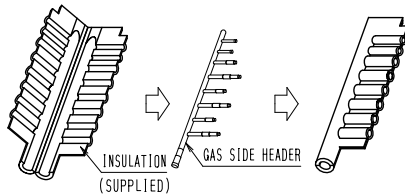
④ Insulation of HEADER

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

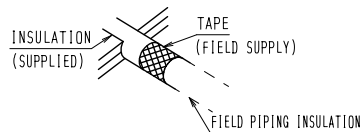
Note) The insulation of the refrigerant piping must be reinforced based on the environment of installation. Otherwise, dew may condensate on the surface of the insulation. For details, see Engineering Data.

**GAS SIDE HEADER**

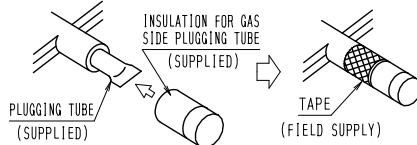
- i) Insulate the gas side header with the supplied insulation.



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

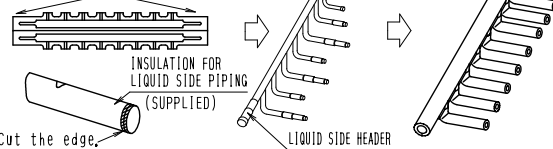


- iii) Seal the plugging tube mounting part with the field supplied tape after installing the supplied insulation for the supplied plugging tube.

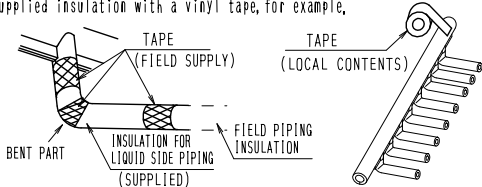


**LIQUID SIDE HEADER**

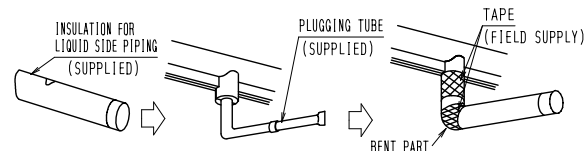
- i) Insulate the header using the insulation for header and the insulation for liquid side piping. Cut the end part at the field piping connection side.



- 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).

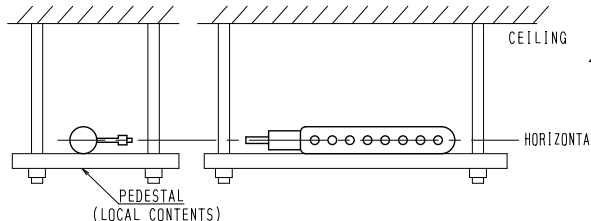


**INSTALLATION PRECAUTIONS**

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

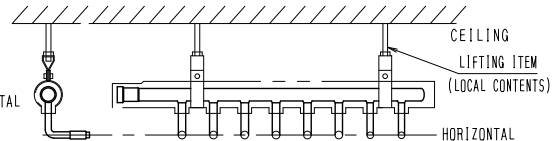
**GAS SIDE HEADER**

- 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.



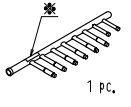
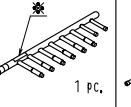
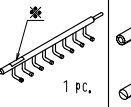
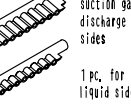
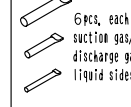
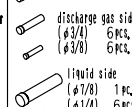
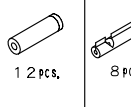
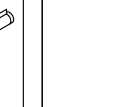
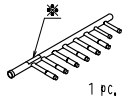
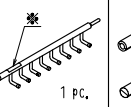
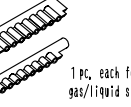

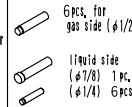
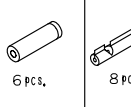
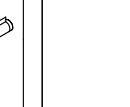
C: 3P113151-1C

## KHRP25M73HU9 / KHRP26M73HU9

## REFNET HEADER INSTALLATION MANUAL

KHRP25M73HU • KHRP26M73HU (FOR R410A)

## ■ THESE KITS INCLUDE THE FOLLOWING PARTS.

KIT NAME	S H A P E							
	(SUCTION) GAS SIDE HEADER	DISCHARGE GAS SIDE HEADER	LIQUID SIDE HEADER	INSULATION FOR HEADER	PLUG TUBE	REDUCER	INSULATION FOR GAS SIDE PLUG TUBE	INSULATION FOR LIQUID SIDE PIPING
KHRP 25M73HU (8branches)	 1 pc.	 1 pc.	 1 pc.	 2 pcs, for suction gas/discharge gas sides 1 pc, for liquid side	 6 pcs, each for suction gas/discharge gas/liquid sides	 6 pcs, for suction gas side (φ1/2) 6 pcs, for discharge gas side (φ3/4) 6 pcs, for liquid side (φ7/8) 1 pc, (φ1/4)	 12 pcs.	 8 pcs.
KHRP 26M73HU (8branches)	 1 pc.	 1 pc.		 1 pc, each for gas/liquid sides	 6 pcs, each for gas/liquid sides	 6 pcs, for gas side (φ1/2) 1 pc, for liquid side (φ1/4)	 6 pcs.	 8 pcs.

※...Make sure these headers are for R410A, (A label for R410A is stuck on them.)

## APPLICATION

- Choose between the two kits according to the system and the location.

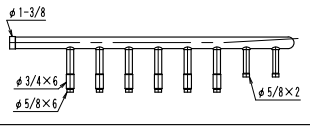
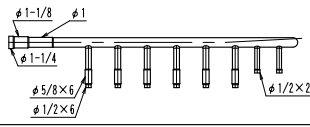
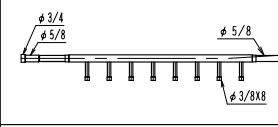
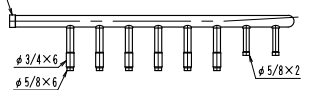
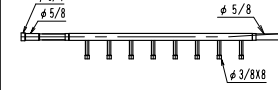
SYSTEM	HEAT PUMP		HEAT RECOVERY	
	KHRP26M73HU(2 pipings)		KHRP25M73HU(3 pipings)	
LOCATION	Outdoor unit~indoor units		Upstream of Branch Selector units	Downstream of Branch Selector units
REFRIGERANT PIPING	Gas side piping Liquid side piping		Suction gas side piping Discharge gas side piping Liquid side piping	Gas side piping Liquid side piping

## SELECTION PROCEDURE

According to the installation manual of outdoor unit.

## INSTALLATION PROCEDURE

## ① Inlet and outlet sizes of the headers

KIT NAME	(SUCTION) GAS SIDE HEADER	DISCHARGE GAS SIDE HEADER	LIQUID SIDE HEADER
KHRP 25M73HU			
KHRP 26M73HU			

- ② For the outlet/inlet of headers which can be connected with several sizes of field piping, cut the connections of headers to be used with a pipe cutter according to the above table.

NOTE) 1. Cut the center of the connections.

2. Pipe size reducer

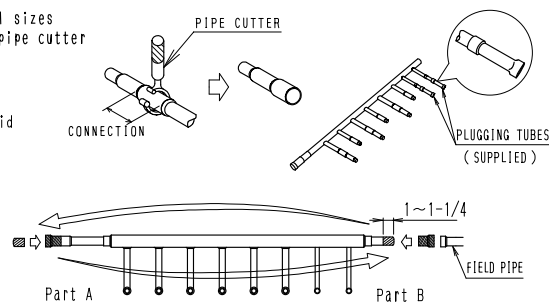
ex) When connecting a field pipe (φ7/8) to the inlet of liquid side header, use the supplied pipe size reducer.

- ③ For non-connected outlet at the indoor unit side, install the supplied plug tubes.

When connecting a field piping to the inlet part B of liquid side header,

- Cut the part B as shown with a pipe cutter and install it to the part A.
- Connect a flared field piping to the part B.

- Make sure to flow nitrogen gas through piping when brazing.



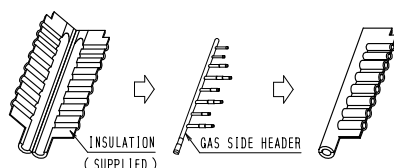
#### ④ Insulation of HEADER

- Be sure to insulate the gas and liquid side header.

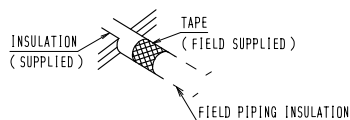
Note) Insulation for refrigerant piping must be reinforced based on environment of installation site. Otherwise, dew may condensate on the surface of the insulation. For details, see the Engineering Data.

##### (SUCTION)GAS/DISCHARGE GAS SIDE HEADER

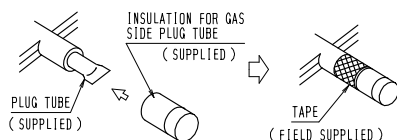
- Insulate the gas side header with the supplied insulation.



- Seal the supplied insulation and field piping insulation junction with field supplied tape.

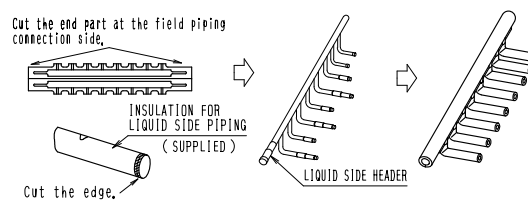


- Seal the plug tube with field supplied tape after installing the supplied insulation for the supplied plugging tube.

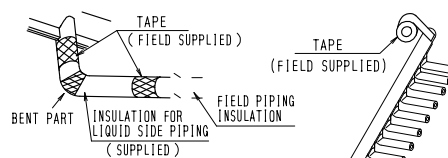


##### LIQUID SIDE HEADER

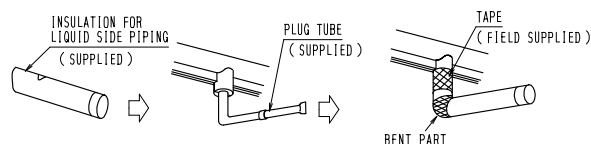
- Insulate the liquid side header with the supplied insulation.



- Seal a joint of the insulations and a bent part with field supplied tape.



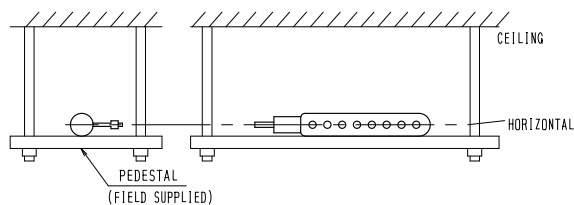
- Seal the plug tube after installing the insulation for liquid side piping (supplied).



#### INSTALLATION PROCEDURE

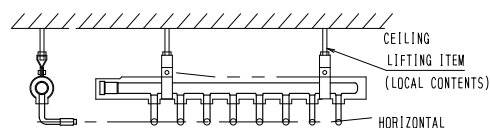
##### (SUCTION)GAS/DISCHARGE GAS SIDE HEADER

- Place the header on the pedestal and install it horizontally.



##### LIQUID SIDE HEADER

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



3P185500-1