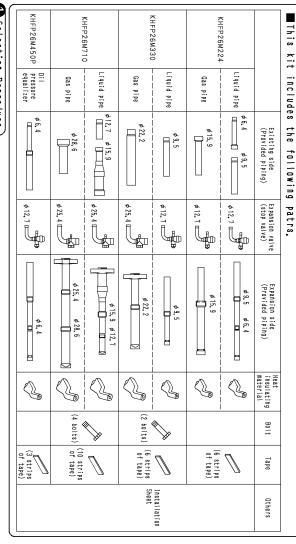
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Selection Expansion

Procedure for of Outdoor Units

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Hefer to the following tables and select the piping diameter according to the capacity of the outdoor units to be expanded, and check whether it is possible to install the expansion valve.



### Selection Procedure

Expansion of indoor units

# ■Refer to the following tables and select the desired expansion valve kit,

CO+ CAN C. C.C. KING . COC FIRE CAN	
sel pue jean ju M.	^
22.4kW or over and less than 33.0kW	
Less than 22,4kW	<b>~</b>
Total capacity of connectable indoor units	ab

,	P335, 400, and 450	KHFP26M710 KHFP26M450P
	P224 and 280	KHFP26M330 KHFP26M450P
units	Connectable outdoor u	Kit name
S	of outdoor units	Expansion

[CAUTION] The installation of the expansion valve kit may not be always possible due to the diameter restriction of piping.

Refer to (Selection Procedure for Expansion of Indoor Units) and Selection Procedure for Expansion of Outdoor Units check whether it is possible to install the expansion valve kit.

Connection piping kits for outdoor units are required in the case of expanding outdoor units.

Refer to appropriate technical documentation and connect the outdoor units in combination.

## Selection Procedure for Expansion of Indoor Units

Refer to the following tables and select the piping diameter according to the capacity of the indoor units to be expanded, and check whether it is possible to install the expansion valve.

Piping between adjacent refrigerant branching kits

Select the piping from the following table according to the total capacity of the indoor units
to be connected downstream

۰			_				_			
		L		Outdoor unit (expanded)						
	104.0kW or over	71.0kW or over and less than 104.0kW	47.0kW or over and less than 71.0kW	33.0kW or over and less than 47.0kW	22.4kW or over and less than 33.0kW	Less than 22.4kW	Total capacity of indoor units			to be connected downstream,
	\$38.1 × 1.35   \$15.1 \cap 1.	\$31.8 × 1.1	\$28.6 × 1.0   \$15.9 × 1.	\$28.6 × 1.0   \$12.7 × 0.	\$22.2 × 1.0 * 3.3 ° °.	\$15.9 × 1.0	Gas pipe   Liquid pipe	minimum wall thickness)	Piping size (outside diameter	(100)
	47. DaW or over and less than 71. DAW \( \phi 28.6 \times 1.0 \) \( \phi 15.9 \times 1.0 \) The standard piping diameter 71. DAW or over and less than 104. DAW \( \phi 31.8 \times 1.1 \) \( \phi 19.1 \times 1.0 \) selected from the total capacity 104. DAW or over \( \phi 38.1 \times 1.35 \) \( \phi 19.1 \times 1.0 \) of the indoor units \( \bar{before} \) expansion.			Less than 22.4KW of 15.9 × 1.0 of 9.5 × 0.8 The standard piping diameter 22.4KW or over and less than 33.0KW of 22.2 × 1.0 of 2.7 × 0.8 of the indoor units lafter Expacity of 2.4KW or over and less than 47.0KW of 28.6 × 1.0 of 2.7 × 0.8 of the indoor units lafter Expansion.			er Possible installation conditions for expansion valve(素)			

(業)Take an appropriate measure, such as the relocation of the branching position, and select the most suitable piping again if the piping diameter exceeds the standard piping diameter.

)ownstream

iquid pipe·Gas pipe.

indoor unit

unit unit

Indoor unit

Indoor unit

Note)24

Outdoor unit

Outdoor unit

Piping between refrigerant branching kit and indoor unit

• Select the piping diameter to match the connecting piping size for the indoor units, 
connecting piping size for indoor units

(Unit: mm)

P280		P71, 80, 90, 112, 140, and 160	P22, 28, 36, 45, and 56		Capacity of indoor units		
\$22.2 × 1.0	$\phi$ 19. 1 × 1. 0	φ15.9 × 1.0	$\phi 12.7 \times 0.8$	Gas pipe	× minimum wall thickness	Piping size (outside diameter	
	φ9.5 × 0.8		ø6.4 × 0.8	Liquid pipe	thickness)	itside diameter	, o

piping Connection

Indoor unit

lndoor \

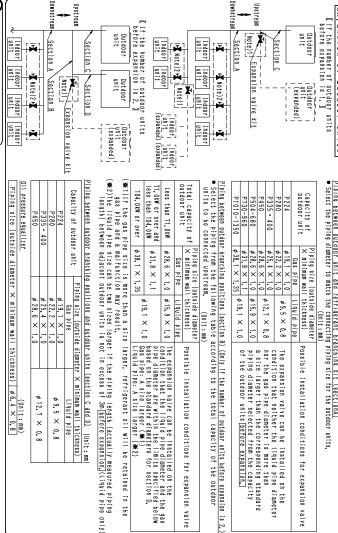
Expansion valve kit

P450

\$28.6 × 1.0 | \$12.7 × 0.8

Note)24 1 \ Note)1

(expanded) (expanded)



### Installation Procedure

■ To existing side from expansion valve (stop valve)

• Perform the brazing of the connection piping determined in Selection Procedure to the stop valve, or if the connection piping and the stop valve are different from each other in size, use the provided reducer To expansion side from expansion valve (stop valve)

• Stop valve of flare nut type (for the existing side).)

Perform the flare connection of the connection piping determined in Selection Procedure to the stop valve. (If the connection piping and the stop valve are different from each other in size, use the provided piping (for the expansion side),) (Do not use a pipe cutter to cut the porvided piping, instead, remove the brazing part to use the piping,)

Stop valve of flange type

Disconnect the joining flange from the stop valve, connect the provided piping (for the expansion side), and perform the blazing of the connection piping determined in Selection procedure to the provided piping.

On not use a pipe cutter to cut the provided piping, lustead remove the brazing part to use the piping.)

(More, I) in the case of using this lif for expansion use, be sure to install the kit within 0.5 m of the refrigerant branching kit and connection pping kits for outdoor units, that the kit is located at the root of the pping route for the indoor and outdoor units to be expanded, and that the stop valve is always closed, if the distance from the refrigerant branching kit and connection pping kits for outdoor units to this kit is none than 0.5 m, refrigerant foil will be retailed in the ping, the compressor will run short of oil, and a compressor malfunction may result.

(Note, 2) in the case of using this kit for the installation of indoor units, be sure to install the kit within 0.5 m of the refrigerant branching kit, that the kit is located at the root of the piping route for the indoor units, and that the stop valve is always opened, (A leak test and vacuum drawing on the indoor unit side can be conducted with easy.)

Connection piping kits for outdoor units

so that the connection piping will be free of vibration

branching kit

Refrigerant

Heat insulation of stop valve and connection piping

Perform the heat insulation of the stop valve and provided piping, (Perform the heat insulation of the above after completion of piping connections.)

Attach heat insulation materials to fit the shape of the stop valve, (Heat insulation materials vary in shape according to each stop valve,)

Apply the provided tape from the center so that there will be no clearance between the mating surfaces of the heat insulation material.

Apply the provided tape to the seam of heat insulation materials (for the on-site piping).

Use a cutter and cut the insulation material vertical to the marking position, Connection piping Provided

with the insulation material exposed outdoors

Precaution win the case of opening or closing the stop valve after the beat insulation materials are attached. Use a cutter and cut the tage along the seam of the beat insulation materials and remove the beat insulation materials. (Attach beat insulation materials with a tage (Prepared on-site) to restore the original condition after completion of the above work.) Apply a tape to the zzzz portion (entire circumference).