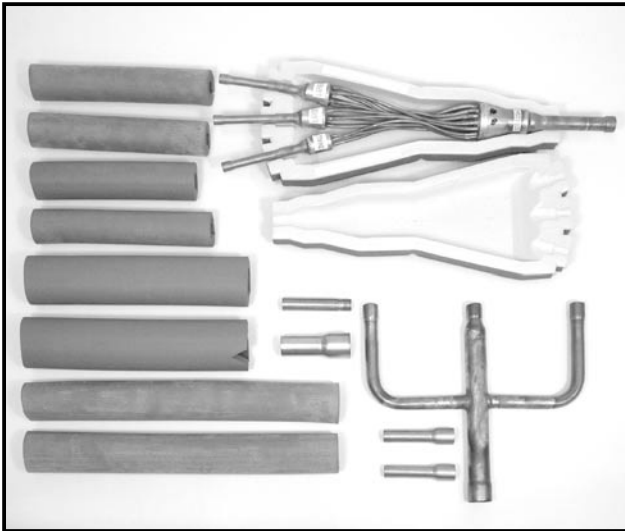


## Photo



## Descriptions

3-branch pipe for Multi-System Triple use.(20:40:40)

## Applicable Models

- PUH-P200
- PUH-P250

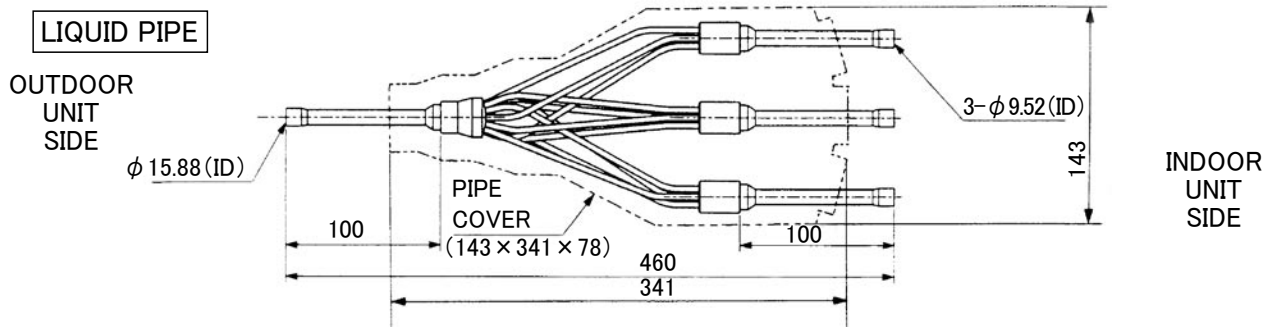
for 20:40:40 Triple use

## Specifications

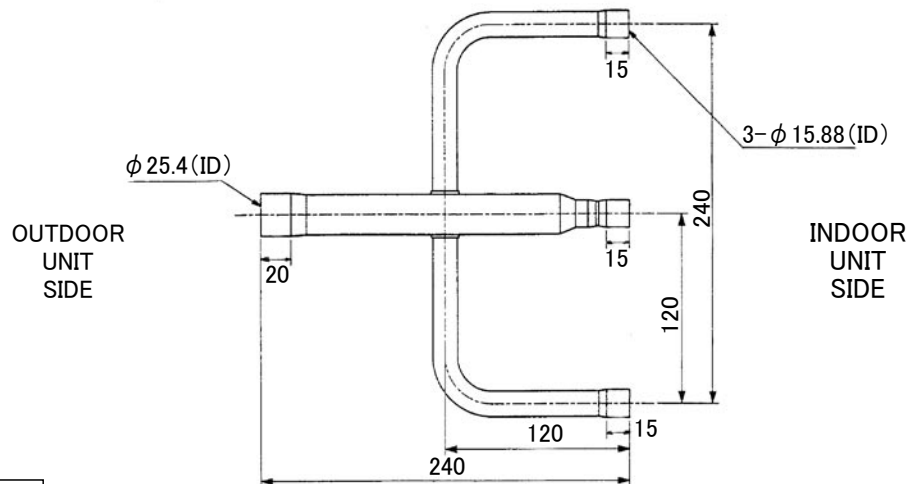
Main body	Distribution ratio	Outdoor unit capacity is divided into three (20:40:40)
	Number of distribution pipes	1 each for liquid pipe and gas pipe
	Pipe material	Phosphate deoxidized copper C1220T-OL (JIS H3300)
Accessory	Pipe cover	Polyethylene foam molding (for liquid pipe) EPT sponge rubber type (for gas pipe)
	Joint	8 joints (5 types)

## Dimensions

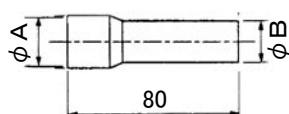
Unit : mm



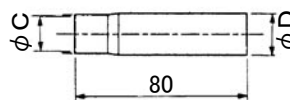
## GAS PIPE



## JOINT(Accessory)



φA(ID)	φB(OD)	Amount
12.7	9.52	2
19.05	15.88	2
28.6	25.4	1



φC(ID)	φD(OD)	Amount
6.35	9.52	1
12.7	15.88	2

# How to Use / How to Install








## INSTALLATION MANUAL OF MULTI DISTRIBUTOR PIPES (TRIPLE) OPTIONAL PARTS

Model SDT-111SA-E [Indoor unit (triple) with same capacity 33:33:33]  
 Model SDT-112SA-E [Indoor unit (triple) with differing capacity 25:25:50]  
 Model SDT-122SA-E [Indoor unit (triple) with differing capacity 20:40:40]

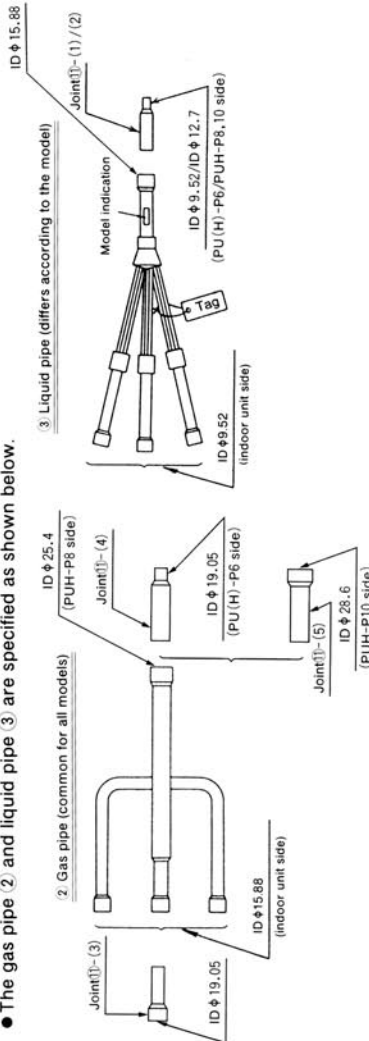
Combination of indoor/outdoor units (Table 1)

Distributor pipe model	SDT-111SA-E	SDT-112SA-E	SDT-122SA-E
Outdoor unit	Indoor unit	Indoor unit	Indoor unit
PU(H)-P6	2+2+2	1.6+1.6+3	—
PUH-P8	2.5+2.5+2.5	2+2+4	1.6+3+3
PUH-P10	3+3+3	2.5+2.5+5	2+4+4

### 1 The following items packed in the box and must be checked before working.

1 Installation manual	2 Gas pipe	3 Liquid pipe	4 Pipe cover (gas pipe) with V cut	5/6 Pipe cover (gas pipe)	7 Pipe cover (liquid pipe)	8/9 Pipe cover	10 Band	11 Joint
				5 ODφ50X250φ...1 pc 6 ODφ43X350φ...2 pcs		8 ODφ42X180φ...1 pc 9 ODφ38X200φ...3 pcs		
This sheet 1 sheet	1 pc	1 pc	1 pc	2 pcs	2 pcs	8 pcs	See (Table 3)	See (Table 3)

- As the joint (1) differs according to the model, refer to (Table 2)
- The gas pipe (2) and liquid pipe (3) are specified as shown below.



- The following items must be obtained locally in addition to the packed parts.
- Heat insulating sealing tape.
- Extension pipe for refrigerant pipe.

(Table 3)

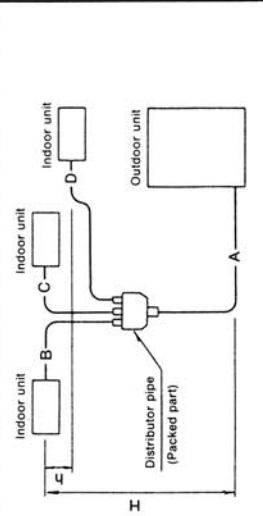
Joint size (mm)	SDT-111	SDT-112	SDT-122
(1) OD φ 15.88-ID φ 9.52	1	1	0
(2) OD φ 15.88-ID φ 12.7	1	1	1
(3) OD φ 15.88-ID φ 19.05	0	1	2
(4) OD φ 25.4-ID φ 19.05	1	1	0
(5) OD φ 25.4-ID φ 28.6	1	1	1

### 2 Pipe size and refrigerant pipe limits.

(Table 2)

Outdoor unit	Pipe size		Actual piping length (m)		Height difference (m)		(Note) No. of bends less than 15
	Gas side	Liquid side	Indoor~ Outdoor	Indoor~ Indoor	Indoor~ Outdoor	Indoor~ Indoor	
PU(H)-P6	Outdoor unit side φ 19.5 (3/4) Indoor unit side P1.6~P3 φ 15.88 (5/8)	Outdoor unit side φ 9.52 (3/8) Indoor unit side φ 9.52 (3/8)	Indoor~ Outdoor	Indoor~ Indoor	Indoor~ Outdoor	Indoor~ Indoor	h=1m or less
PUH-P8	Outdoor unit side φ 25.4 (1) Indoor unit side P4~P5 φ 12.7 (1/2)	Outdoor unit side φ 12.7 (1/2) Indoor unit side φ 9.52 (3/8)	Indoor~ Outdoor	Indoor~ Indoor	Indoor~ Outdoor	Indoor~ Indoor	
PUH-P10	Outdoor unit side φ 28.6 (1-1/8) Indoor unit side φ 19.05 (3/4)	Outdoor unit side φ 12.7 (1/2) Indoor unit side φ 9.52 (3/8)	Indoor~ Outdoor	Indoor~ Indoor	Indoor~ Outdoor	Indoor~ Indoor	

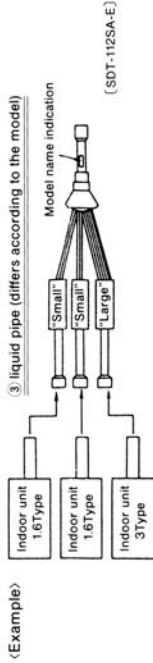
Note 1: The number of bends in the refrigerant pipe is respectively 8 or less in the range of (A+B) (A+C) (A+D).



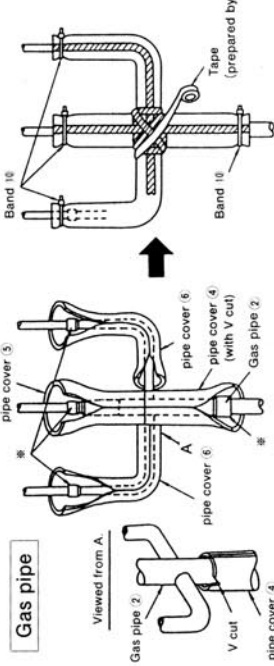
### 3 Pipe connection

- (1) Note the following during work:
- Be sure to check the combination (Table1) of the indoor/outdoor units.
  - Observe the refrigerant pipe length limits and no. of bend limits (Table2).
  - Insert the refrigerant pipe (obtain locally) into the flared end of the distributor pipe (packed) until the former pipe stops.
  - Use oxidation-free solder for connection when possible.
  - The installation direction of the distributor pipe (packed) is not regulated.
  - Take care to prevent dirt, foreign materials, etc., from entering the pipe when connecting the pipe.
  - After checking remove the tag from the liquid pipe (3).
- (2) Pipe connection
- Referring to (Table2), check the pipe size, and connect the refrigerant pipe.
  - Do not bend or expand any distributor pipe (liquid pipe).

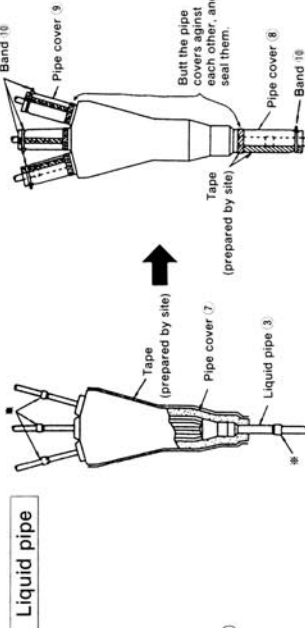
- (3) Triple combination with differing capacities
- Even if the capacity of the indoor unit differs depending on the combination, the pipe size may be the same. In this case, connect the pipes to ensure proper distribution according to the following. (only liquid pipe side).
  - If the capacity of the indoor unit is larger, connect the liquid pipe (3) to the "Large" side.
  - If the capacity of the indoor unit is smaller, connect the liquid pipe (3) to the "Small" side.



### 4 Heat insulating work



- (1) Wrap the pipe covers (4), (5) and (6) on the gas pipe (2) without clearance as shown above. Moreover, securely press the V cut areas of the pipe cover (4) against the pipe base on both sides during assembling.
- (2) Securely seal the cut areas of the pipe covers (4), (5) and (6) with heat insulating sealing tape (obtained locally). Wrap the seal tape in a cross to eliminate clearance at the cross area of the pipe.
- (3) Fasten the end of each pipe cover with band 10.



- (1) Install the liquid pipe (3) while aligning it with the pipe covers (8) and (9), and securely seal with heat insulating sealing tape (obtained locally).
- (2) As shown above, install the liquid pipe (3) on the pipe covers (8) and (9), and securely seal with heat insulating sealing tape (obtained locally).
- (3) Fasten the end of each pipe cover with band 10.

Note:

1. Cut the excessive part of each pipe cover.
2. Securely cover the joint areas (\*) of the refrigerant pipe (obtained locally) to the gas pipes (2) and liquid pipe (3) with the pipe covers.
3. Cover the entire refrigerant pipe (obtained locally) with heat insulating material. If commercial heat insulating material is used, it must be 12mm or thicker.

### 5 Control wiring for indoor unit

● Specifications of each control cable

	A	C
Control cable	Prepared by site	Enclosed with the remote controller
Control circuit voltage	220-240V	DC12V
Cable thickness	2.5mm <sup>2</sup> or more	0.3mm <sup>2</sup> or more
Polarity	Designated	Not designated

