



# CITY MULTI

Air-Conditioners For Building Application

OUTDOOR UNIT

**PURY-P-YHM-A (-BS)**

CE

**PURY-EP-YHM-A (-BS)** For use with R410A

SW

HR

BG

RO

## INSTALLATIONSHANDBOK

Läs den här installationshandboken noga innan luftkonditioneringsenheten installeras, för säker och korrekt användning.

## PRIRUČNIK ZA UGRADNJU

Radi sigurne i ispravne uporabe, temeljito pročitajte ovaj priručnik prije ugradnje klimatizacijskog uređaja.

## РЪКОВОДСТВО ЗА МОНТАЖ

За безопасна и правилна употреба, моля, прочетете внимателно това ръководство преди монтажа на климатизатора.

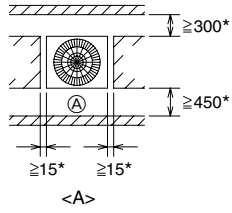
## MANUAL CU INSTRUCȚIUNI DE INSTALARE

Pentru o utilizare corectă și sigură, vă rugăm să citiți cu atenție acest manual înainte de a instala unitatea de aer condiționat.

6

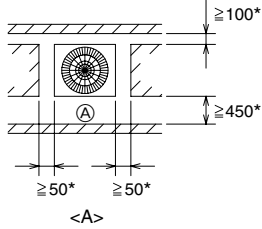
[Fig. 6.0.1]

(1)

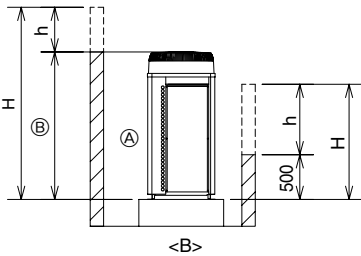


<A> : Top view  
 <B> : Side view  
 <C> : When there is little space up to an obstruction  
 (A) : Front  
 (B) : Unit height  
 (C) : Back  
 (D) : Air outlet guide (Procured at the site)

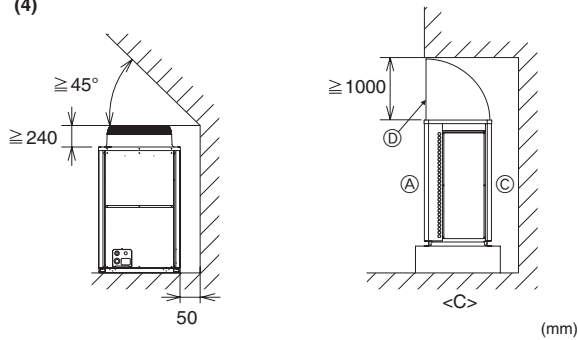
(2)



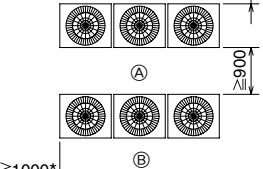
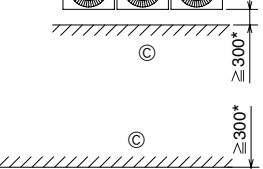
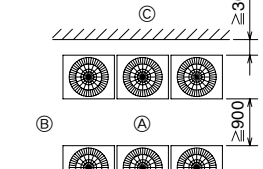
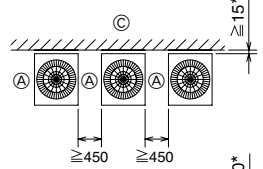
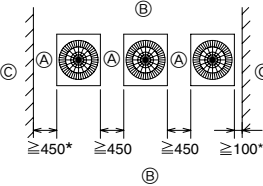
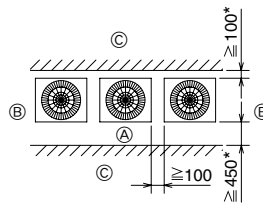
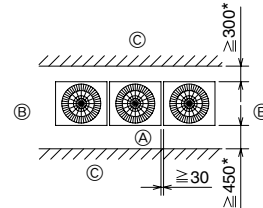
(3)



(4)



[Fig. 6.0.2]



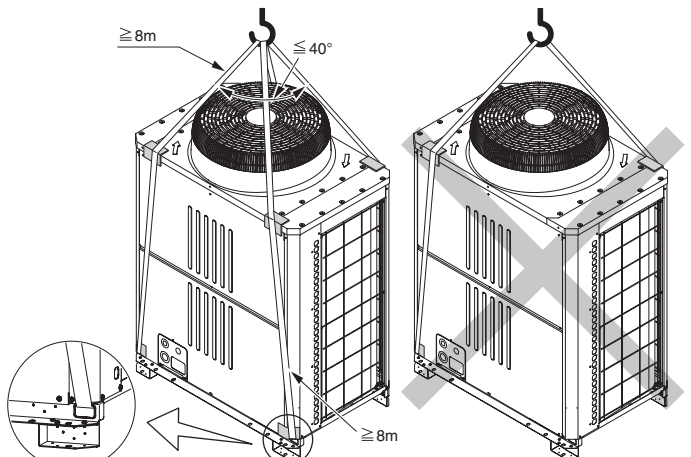
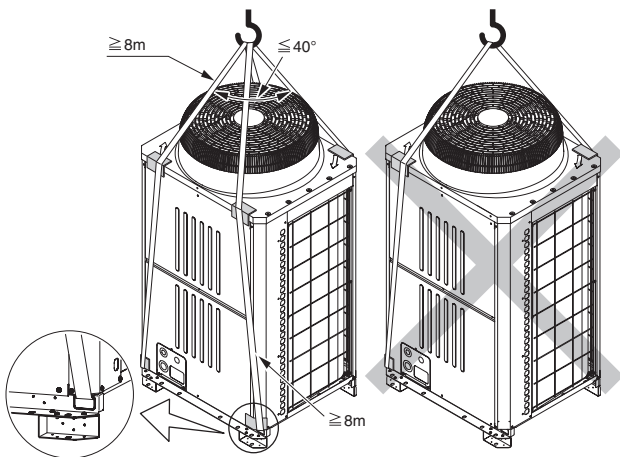
(A) : Front  
 (B) : Must be open  
 (C) : Wall height (H)

7

[Fig. 7.0.1]

① P200 ~ P300  
 EP200

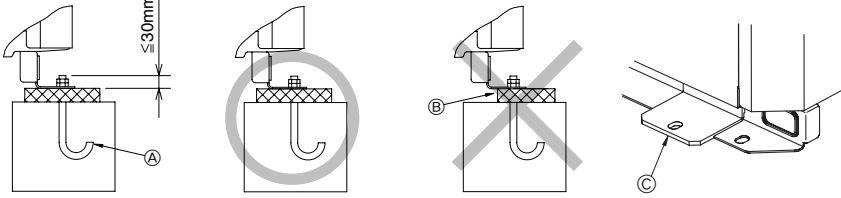
② P350 ~ P400  
 EP300



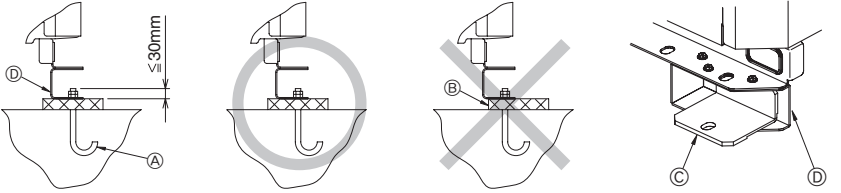
8

[Fig. 8.1.1]

<A> Without detachable leg

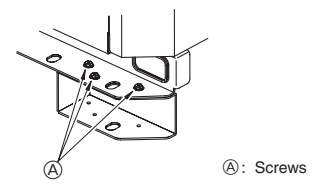


<B> With detachable leg



- Ⓐ: M10 anchor bolt procured at the site.
- Ⓑ: Corner is not seated.
- Ⓒ: Fixing bracket for hole-in anchor bolt (3 locations to fix with screws).
- Ⓓ: Detachable leg

[Fig. 8.1.2]

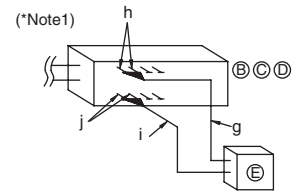
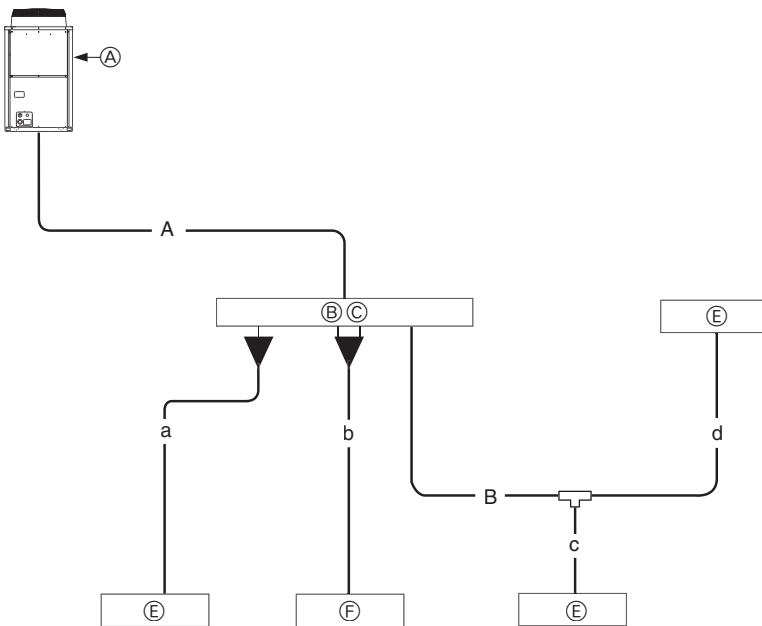


9

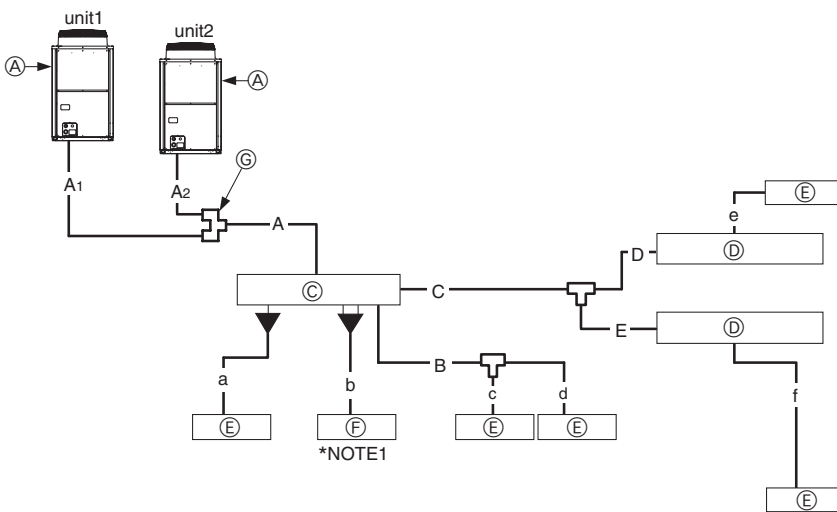
9.2

[Fig. 9.2.1]

[P200 ~ P400]  
[EP200, EP300]



[P450 ~ P800]  
[EP400 ~ EP600]



- Ⓐ: Outdoor unit
- Ⓑ: BC controller (standard)
- Ⓒ: BC controller (main)
- Ⓓ: BC controller (sub)
- Ⓔ: Indoor unit (15 ~ 80)
- Ⓕ: Indoor unit (100 ~ 250)
- Ⓖ: Outdoor twinning kit

\*NOTE1

A [Standard]

(mm)

A Outdoor model	Unit combination		A		A1 *1		A2 *1	
	Unit 1	Unit 2	B High-pressure side	C Low-pressure side	B High-pressure side	C Low-pressure side	B High-pressure side	C Low-pressure side
P200	-	-	ø15.88	ø19.05	-	-	-	-
P250	-	-	ø19.05	ø22.2	-	-	-	-
P300	-	-	ø19.05	ø22.2	-	-	-	-
P350	-	-	ø19.05	ø28.58	-	-	-	-
P400	-	-	ø22.2	ø28.58	-	-	-	-
P450	P250	P200	ø22.2	ø28.58	ø19.05	ø22.2	ø15.88	ø19.05
P500	P250	P250	ø22.2	ø28.58	ø19.05	ø22.2	ø19.05	ø22.2
P550	P300	P250	ø28.58	ø28.58	ø19.05	ø22.2	ø19.05	ø22.2
P600	P300	P300	ø28.58	ø28.58	ø19.05	ø22.2	ø19.05	ø22.2
P650	P350	P300	ø28.58	ø28.58	ø19.05	ø28.58	ø19.05	ø22.2
P700	P400	P300	ø28.58	ø34.93	ø22.2	ø28.58	ø19.05	ø22.2
P750	P400	P350	ø28.58	ø34.93	ø22.2	ø28.58	ø19.05	ø28.58
P800	P400	P400	ø28.58	ø34.93	ø22.2	ø28.58	ø22.2	ø28.58
EP200	-	-	ø15.88	ø19.05	-	-	-	-
EP300	-	-	ø19.05	ø22.2	-	-	-	-
EP400	EP200	EP200	ø22.2	ø28.58	ø15.88	ø19.05	ø15.88	ø19.05
EP450	P250	EP200	ø22.2	ø28.58	ø19.05	ø22.2	ø15.88	ø19.05
EP500	EP300	EP200	ø22.2	ø28.58	ø19.05	ø22.2	ø15.88	ø19.05
EP550	EP300	P250	ø28.58	ø28.58	ø19.05	ø22.2	ø19.05	ø22.2
EP600	EP300	EP300	ø28.58	ø28.58	ø19.05	ø22.2	ø19.05	ø22.2

\*1 The pipe sizes listed in columns A1 to A2 in this table correspond to the sizes for the models listed in the unit 1 and 2 columns. When the order of unit 1 and 2 is changed, make sure to use the appropriate pipe size for the model.

B (mm)

D Total capacity of indoor units	E Liquid pipe	F Gas pipe
~ 80	ø9.52	ø15.88

C, D (mm)

Downstream unit model total	G High-pressure gas pipe	H Low-pressure gas pipe	I Liquid pipe
~ 200	ø15.88	ø19.05	ø9.52
201 ~ 300	ø19.05	ø22.2	ø9.52
301 ~ 350	ø19.05	ø28.58	ø12.7
351 ~ 400	ø22.2	ø28.58	ø12.7
401 ~ 450	ø22.2	ø28.58	ø15.88

g, h, i, j (mm)

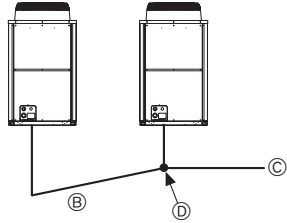
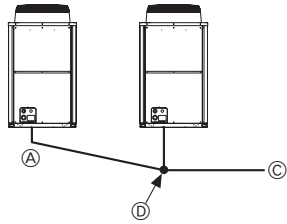
J Model number	E Liquid pipe		F Gas pipe	
	g	h	i	j
100	ø9.52	ø9.52	ø15.88	ø15.88
125	ø9.52	ø9.52	ø15.88	ø15.88
140	ø9.52	ø9.52	ø15.88	ø15.88
200	ø9.52	ø9.52	ø19.05	ø15.88
250	ø9.52	ø9.52	ø22.2	ø15.88

A Outdoor model	K Outdoor twinning kit
P450 ~ P650 EP400 ~ EP600	CMY-R100VBK
P700 ~ P800	CMY-R200VBK

a, b, c, d, e, f (mm)

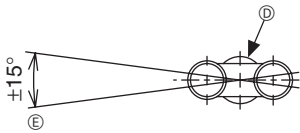
J Model number	E Liquid pipe	F Gas pipe
15,20,25,32,40,50	ø6.35	ø12.7
63,71,80,100,125,140	ø9.52	ø15.88
200	ø9.52	ø19.05
250	ø9.52	ø22.2

[Fig. 9.2.2]

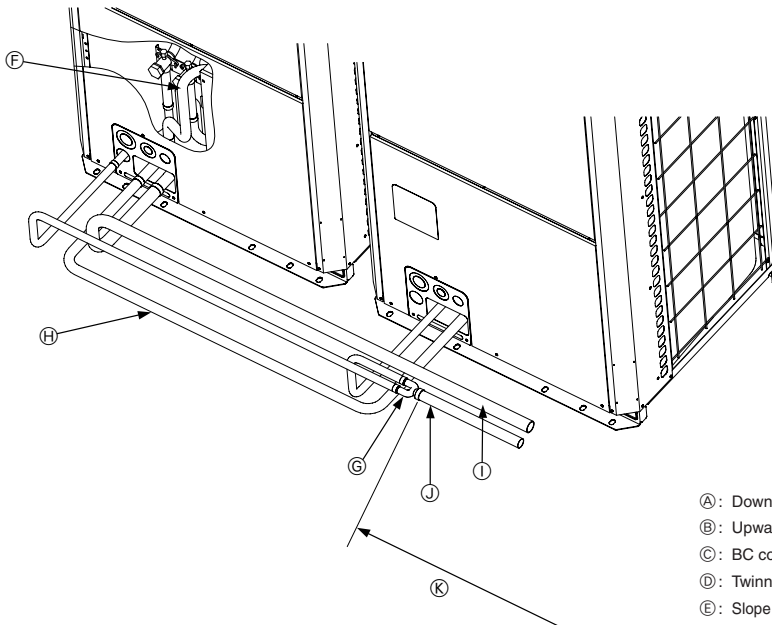


<A> The piping from the outdoor units to twinning pipe must be made to slope downwards the twinning pipe. (high-pressure side only)

<B> Slope of twinning pipe (high pressure side only)



<C> Pipe connection example

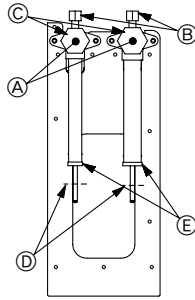


- Ⓐ: Downward slope
- Ⓑ: Upward slope
- Ⓒ: BC controller (standard or main)
- Ⓓ: Twinning pipe
- Ⓔ: Slope of the twinning pipe is at an angle within  $\pm 15^\circ$  to the ground
- Ⓕ: Twinning pipe (low-pressure side)
- Ⓖ: Twinning pipe (high-pressure side)
- Ⓗ: On-site piping (low-pressure connecting pipe; between outdoor units)
- Ⓘ: On-site piping (low-pressure main pipe; to BC controller)
- Ⓙ: On-site piping (high-pressure main pipe; to BC controller)
- Ⓚ: Straight run of pipe that is 500 mm or more

[Fig. 10.2.1]

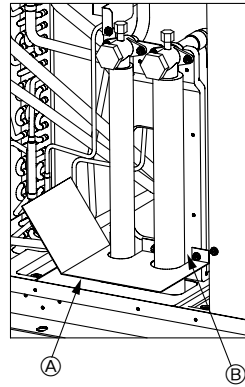
<A> Refrigerant service valve  
(High-pressure side/brazed type)

<B> Refrigerant service valve  
(Low-pressure side/brazed type)



- Ⓐ: Shaft
- Ⓑ: Service port
- Ⓒ: Cap
- Ⓓ: Pinched connecting pipe severing portion
- Ⓔ: Pinched connecting pipe brazing portion

[Fig. 10.2.3]



- Ⓐ: Example of closure materials (field supply)
- Ⓑ: Fill the gap at the site

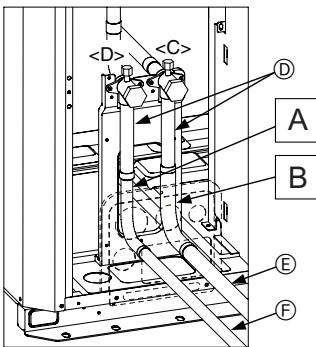
\* When not attaching a low-pressure twinning pipe.

[Fig. 10.2.2]

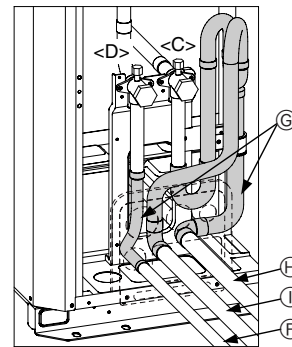
No.	①	②	③	④
Ⓐ Shape				
P250	1 <C> Low-pressure side	-	-	-
P300	1 <C> Low-pressure side	-	-	-
EP300	1 <C> Low-pressure side	1 <D> High-pressure side	-	1 <D> High-pressure side
P350	-	1 <D> High-pressure side	1 <C> Low-pressure side	1 <D> High-pressure side
P400	1 <D> High-pressure side	-	1 <C> Low-pressure side	-

<A> Front pipe routing

Ⓓ When not attaching a low-pressure twinning pipe

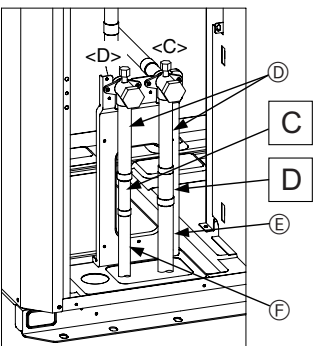


Ⓔ When attaching a low-pressure twinning pipe \*1,\*2

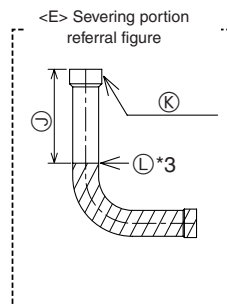
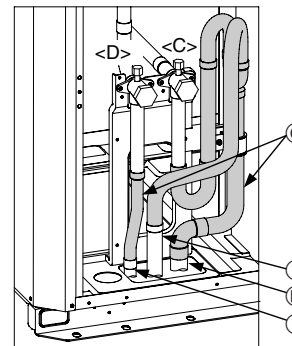


<B> Bottom pipe routing

Ⓓ When not attaching a low-pressure twinning pipe



Ⓔ When attaching a low-pressure twinning pipe \*1,\*2



<A> Front pipe routing

<D> High-pressure side

Ⓐ Shape

Ⓓ Refrigerant service valve piping

Ⓔ Twinning kit (sold separately)

Ⓕ On-site piping (low-pressure connecting pipe: to BC controller)

Ⓖ On-site piping (low-pressure connecting pipe: to outdoor unit)

Ⓗ 75 mm (reference measurement)

<B> Bottom pipe routing

<E> Severing portion referral figure

Ⓓ When not attaching a low-pressure twinning pipe

Ⓔ On-site piping (low-pressure connecting pipe)

Ⓚ ID 25.4 side

<C> Low-pressure side

Ⓔ When attaching a low-pressure twinning pipe

Ⓕ On-site piping (high-pressure connecting pipe)

Ⓛ Severing portion

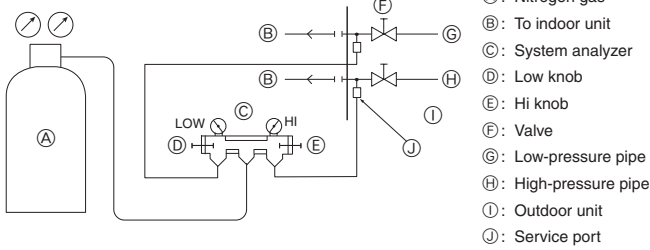
\*1 For the attachment of the Twinning pipe (sold separately), refer to the instructions included in the kit.

\*2 Connection pipe is not used when the Twinning kit is attached.

\*3 Use a pipe cutter to sever.

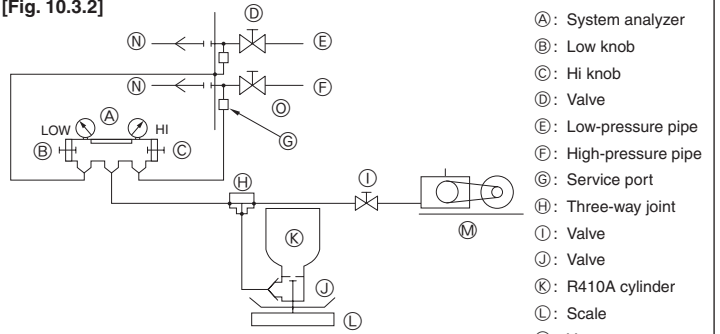
# 10.3

[Fig. 10.3.1]



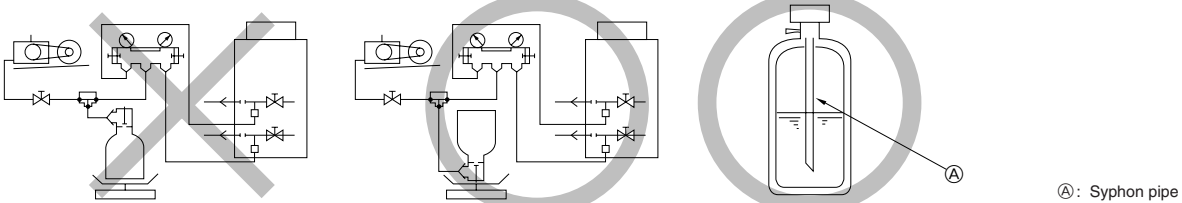
- A: Nitrogen gas
- B: To indoor unit
- C: System analyzer
- D: Low knob
- E: Hi knob
- F: Valve
- G: Low-pressure pipe
- H: High-pressure pipe
- I: Outdoor unit
- J: Service port

[Fig. 10.3.2]



- A: System analyzer
- B: Low knob
- C: Hi knob
- D: Valve
- E: Low-pressure pipe
- F: High-pressure pipe
- G: Service port
- H: Three-way joint
- I: Valve
- J: Valve
- K: R410A cylinder
- L: Scale
- M: Vacuum pump
- N: To indoor unit
- O: Outdoor unit

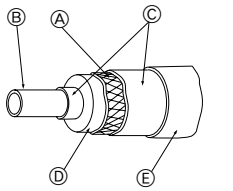
[Fig. 10.3.3]



ⓑ In case of the R410A cylinder having no syphon pipe.

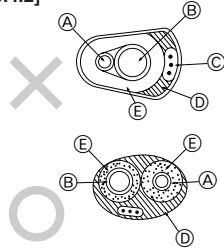
# 10.4

[Fig. 10.4.1]



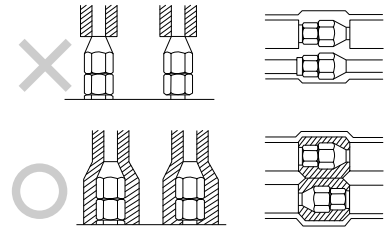
- A: Steel wire
- B: Piping
- C: Asphaltic oily mastic or asphalt
- D: Heat insulation material A
- E: Outer covering B

[Fig. 10.4.2]

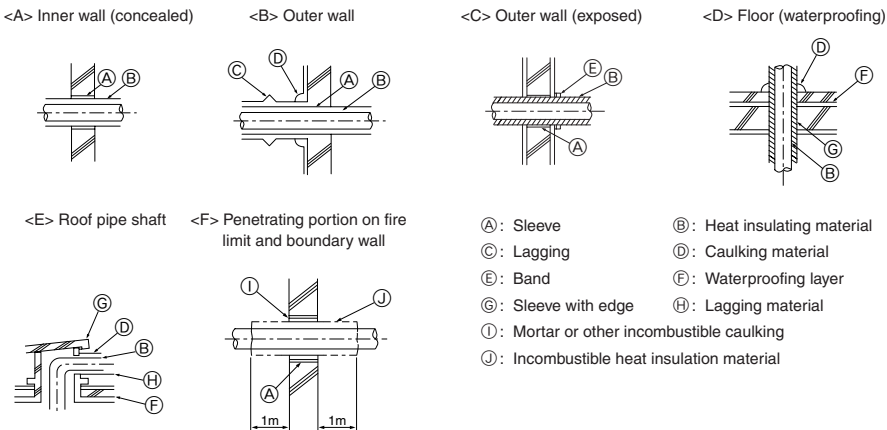


- A: High-pressure pipe
- B: Low-pressure pipe
- C: Electric wire
- D: Finishing tape
- E: Insulator

[Fig. 10.4.3]

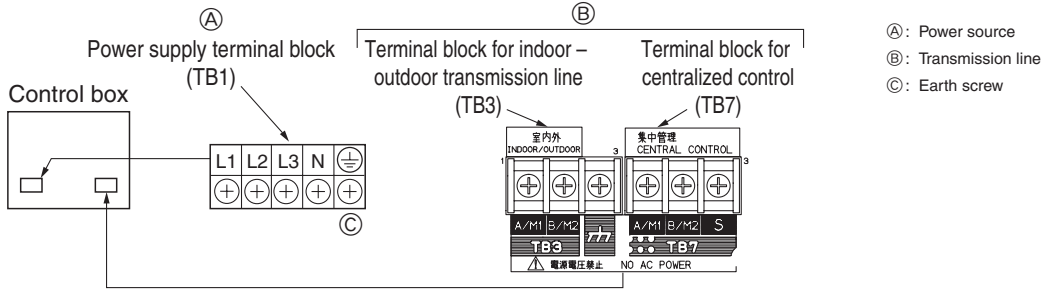


[Fig. 10.4.4]

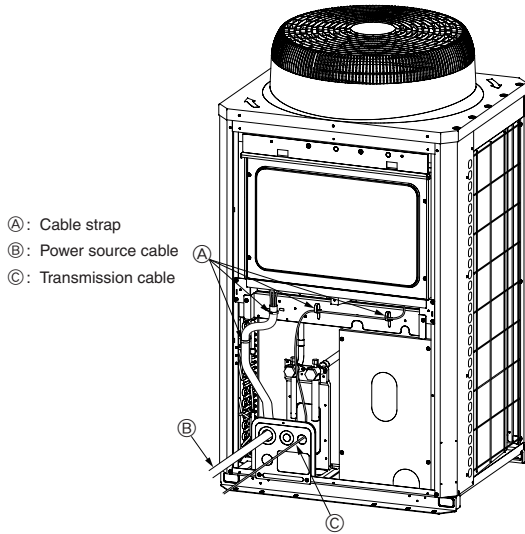


- A: Sleeve
- B: Heat insulating material
- C: Lagging
- D: Caulking material
- E: Band
- F: Waterproofing layer
- G: Sleeve with edge
- H: Lagging material
- I: Mortar or other incombustible caulking
- J: Incombustible heat insulation material

[Fig. 11.2.1]

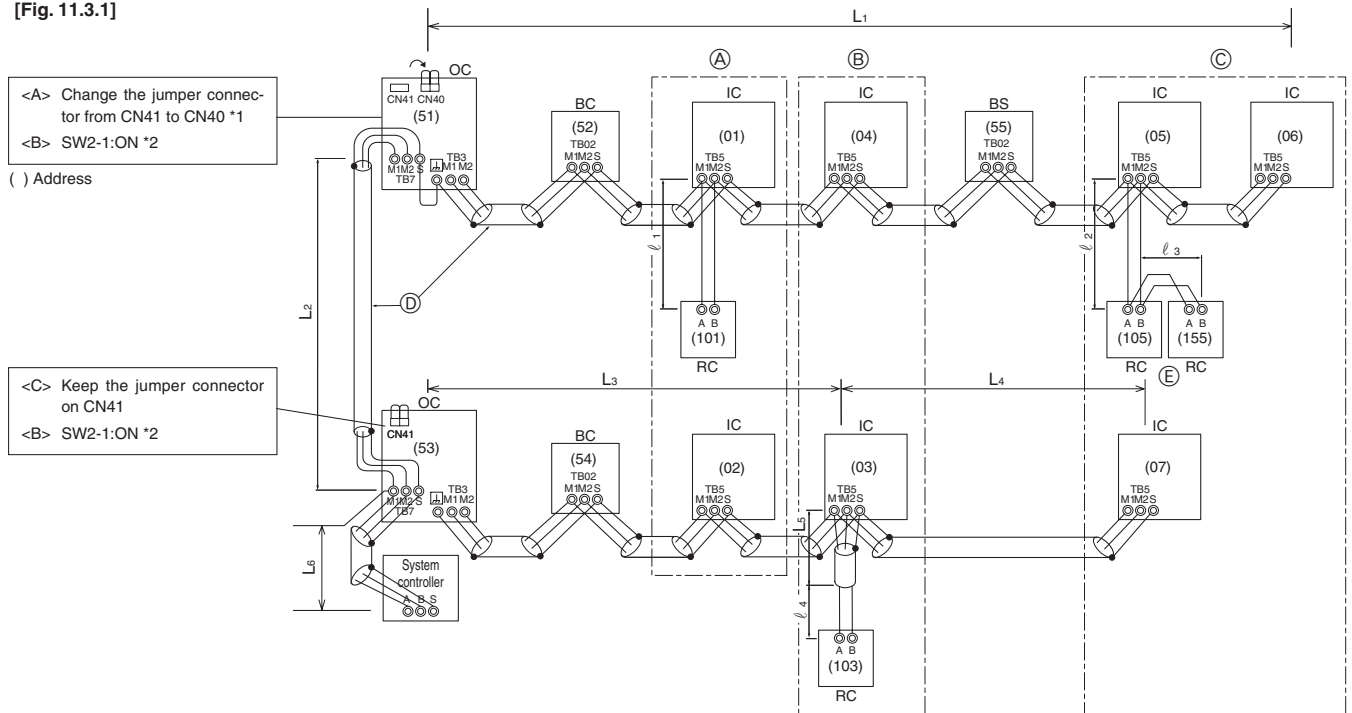


[Fig. 11.2.2]



11.3

[Fig. 11.3.1]

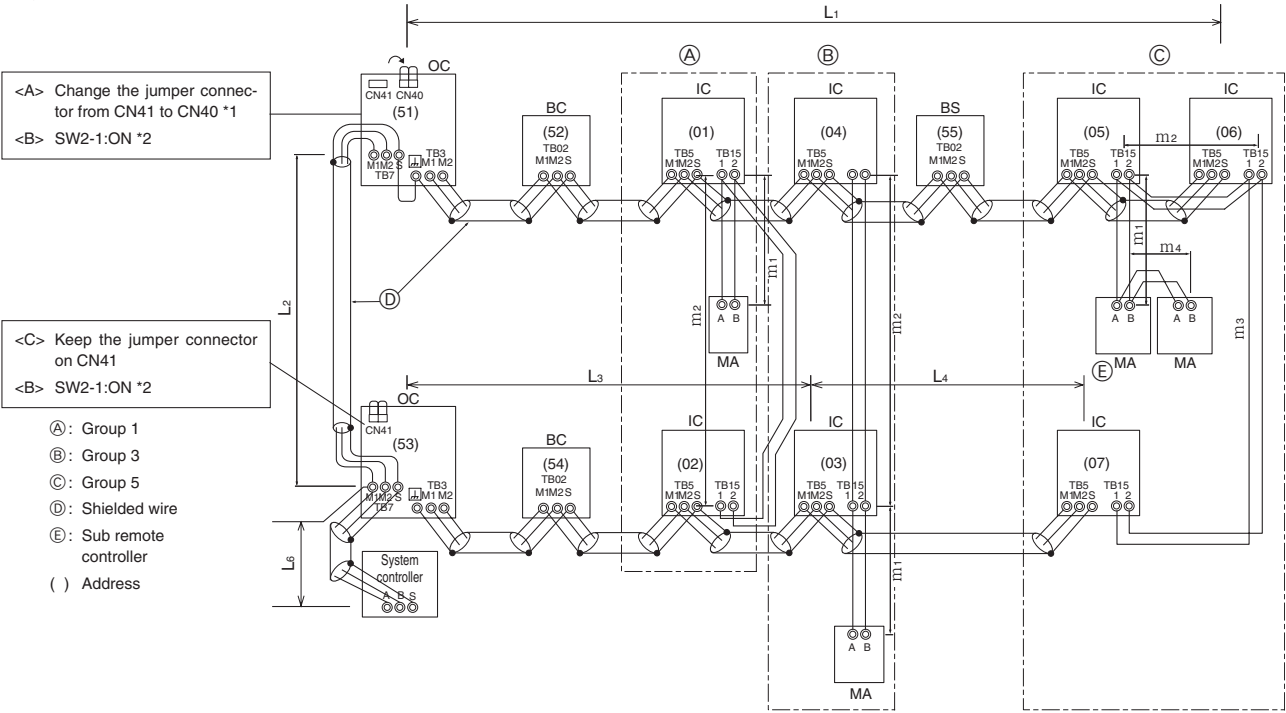


\*1: When the power supply unit is not connected to the transmission line for centralized control, disconnect the male power supply connector (CN41) from ONE outdoor unit in the system and connect it to CN40.

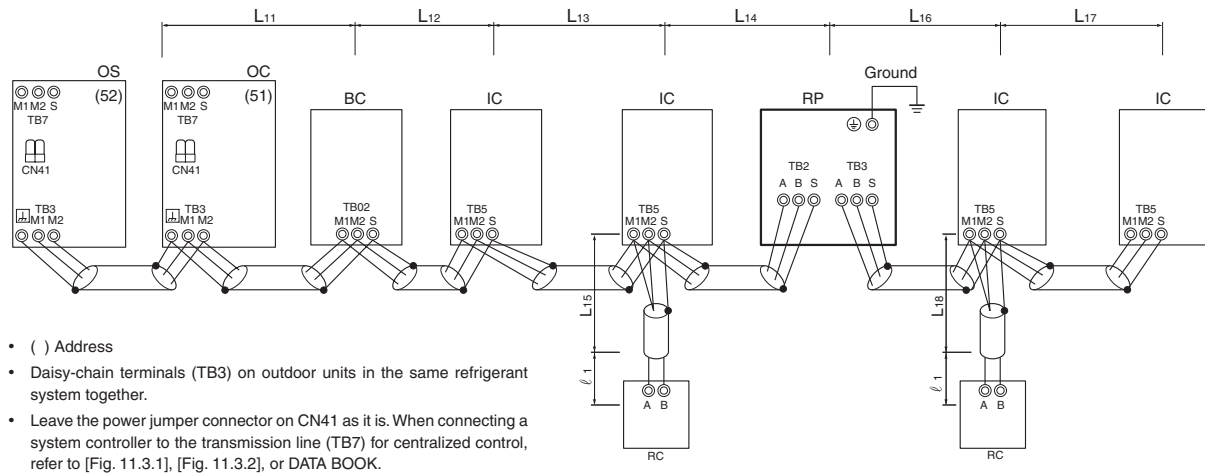
\*2: If a system controller is used, set SW2-1 on all of the outdoor units to ON.



[Fig. 11.3.2]



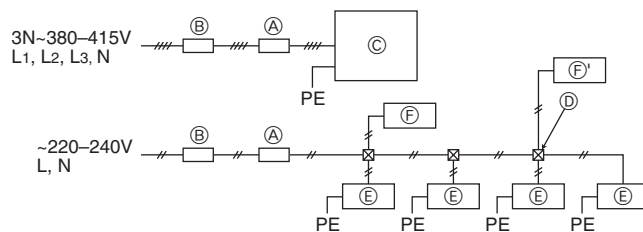
[Fig. 11.3.3]



## 11.4

[Fig. 11.4.1]

- Ⓐ : Switch (Breakers for wiring and current leakage)
- Ⓑ : Breakers for current leakage
- Ⓒ : Outdoor unit
- Ⓓ : Pull box
- Ⓔ : Indoor unit
- Ⓕ : BC controller (standard or main)
- Ⓖ' : BC controller (sub)



---

This product is designed and intended for use in the residential, commercial and light-industrial environment.

The product at hand is based on the following EU regulations:

- Low Voltage Directive 2006/95/EC
- Electromagnetic Compatibility Directive 89/336/EEC, 2004/108/EC
- Pressure Equipment Directive 97/23/EC

Please be sure to put the contact address/telephone number on this manual before handing it to the customer.