

PURY-EP350, 400, 450YNW-A(-BS)

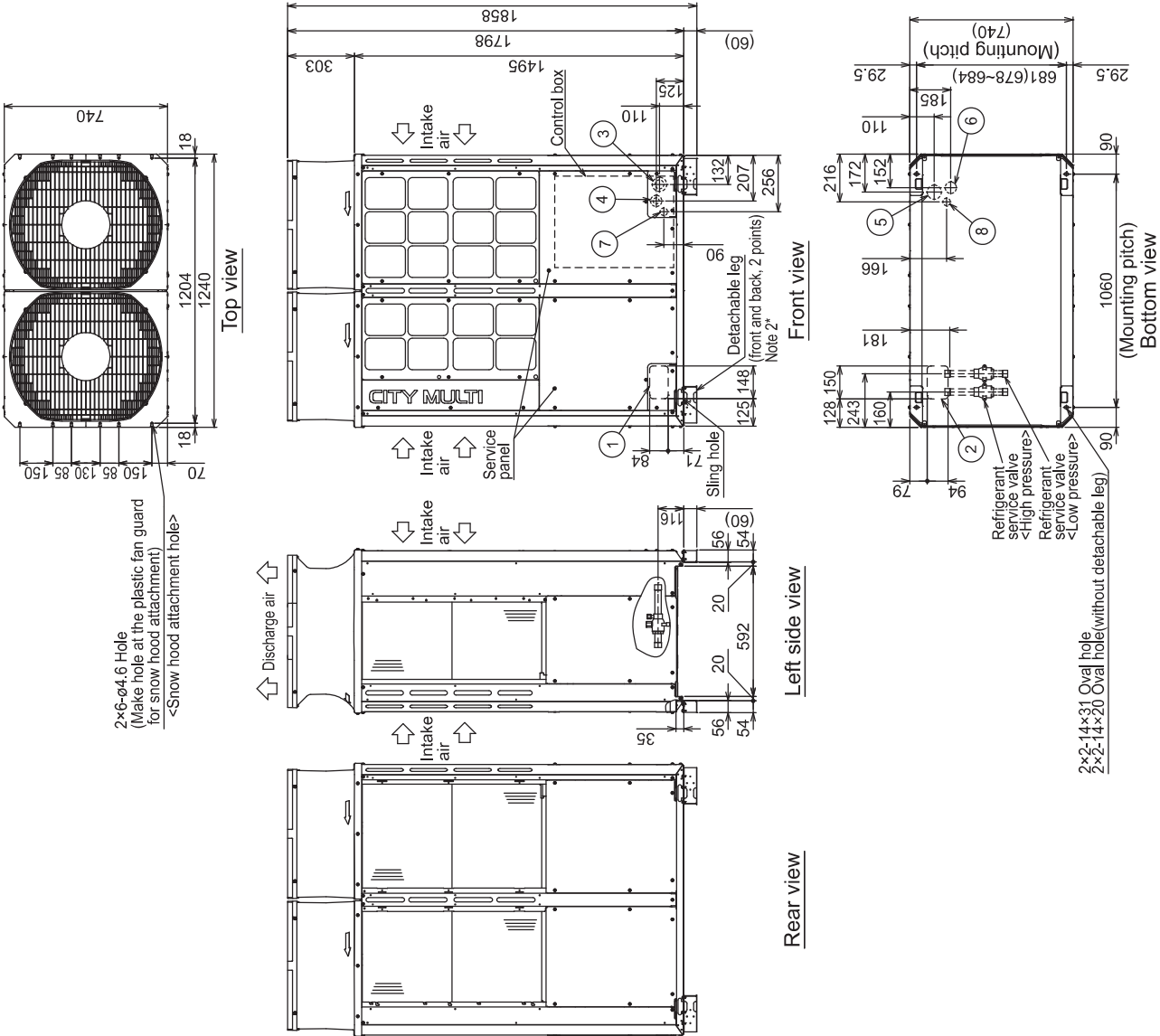
Unit: mm

Note 1. Please refer to the next page for information regarding necessary spacing around the unit and foundation work.
2. The detachable leg can be removed at site.
3. At brazing of pipes, wrap the refrigerant service valve with wet cloth and keep the temperature of refrigerant service valve under 120°C.

Model	Connecting pipe specifications			
	Refrigerant pipe		Service valve	
	High pressure	Low pressure	High pressure	Low pressure
EP350	ø19.05 Brazeed *1		ø28.58	ø28.58
EP400	ø22.2 Brazeed *1		ø28.58	ø28.58
EP450				

*1 Connect the refrigerant pipe to the service valve according to the Installation Manual.

NO.		Usage	Specifications	
			Front through hole	Bottom through hole
①	For pipes	Front through hole	148 x 84 Knockout hole	
②		Bottom through hole		150 x 94 Knockout hole
③	For wires	Front through hole	ø65 or ø40 Knockout hole	
④		Front through hole	ø52 or ø27 Knockout hole	
⑤		Bottom through hole	ø65 Knockout hole	
⑥		Bottom through hole	ø52 Knockout hole	
⑦	For transmission cables	Front through hole	ø34 Knockout hole	
⑧		Bottom through hole		ø34 Knockout hole



PURY-EP350, 400, 450YNW-A(-BS)

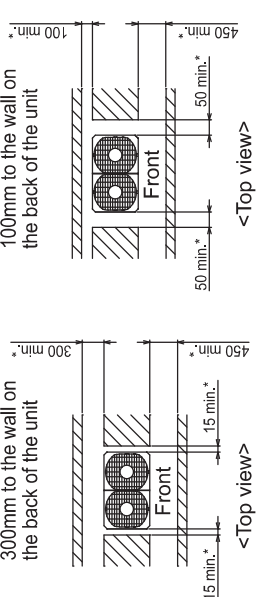
Unit: mm

1. Required space around the unit

● In case of single installation

- ① Secure enough space around the unit as shown in the figure below.

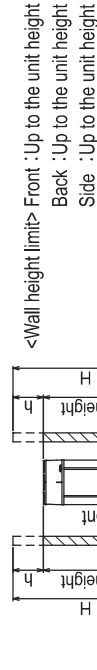
- With a space of at least 300mm to the wall on the back of the unit



<Top view>

<Unit:mm>

- ② When the height of the walls on the front, back or on the sides<H> exceeds the wall height limit as defined below add the height that exceeds the height limit <h> to the figures that are marked with an asterisk.

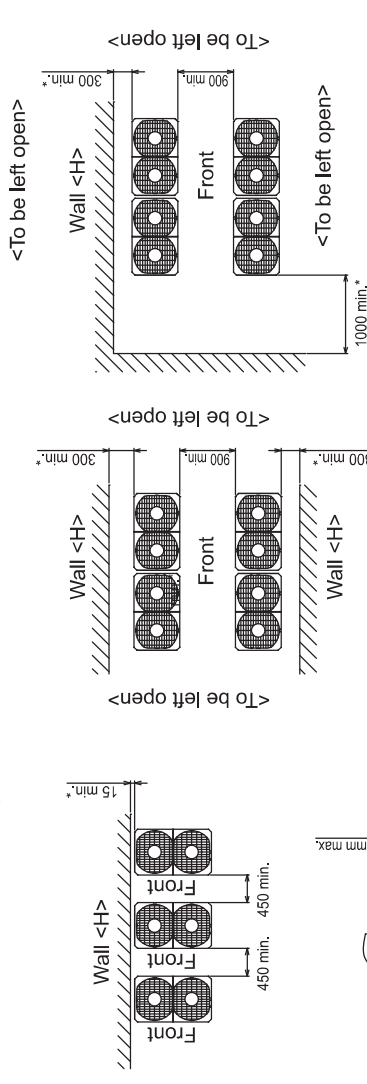
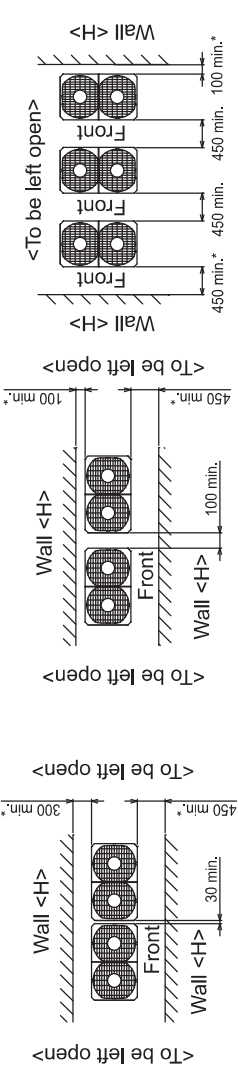


<Side view>

2. Foundation work

- ① Take into consideration the surface strength, water drainage route, piping route, and wiring route when preparing the installation site.
<Note that the drain water comes out of the unit during operation.>
- ② Build the foundation in such way that the corner of the installation leg is securely supported as shown in the right figure.(Fig.A,B)
When using a rubber isolating cushion, please ensure it is large enough to cover the entire width of each of the unit's legs.
- ③ The protrusion length of the anchor bolt must not exceed 30mm.(Fig.A,B)
- ④ Use four fixing plates as shown in the right figure <field supply required> when using post-installed anchor bolts.(Fig.C,D)
- ⑤ To prevent small animals and water and snow from entering the unit and damaging its parts, close the gap around the edges of through holes for pipes and wires with filler plates <field supply required>.
- ⑥ When the pipes or cables are routed at the bottom of the unit, make sure that the through hole at the base of the unit does not get blocked with the installation base.
- ⑦ Refer to the Installation Manual when installing units on an installation base.

- #### ● In case of collective installation
- ① When multiple units are installed adjacent to each other, secure enough space to allow for air circulation and walkway between groups of units as shown in the figures below.
 - ② At least two sides must be left open.
 - ③ As with the single installation, add the height that exceeds the height limit<h> to the figures that are marked with an asterisk.
 - ④ If there is a wall at both the front and the rear of the unit, install up to six units consecutively in the side direction and provide a space of 1000mm or more as inlet space/ passage space for each six units.



<Unit:mm>

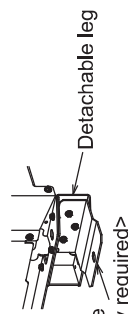


Fig.D (with detachable legs)



Fig.C (without detachable legs)

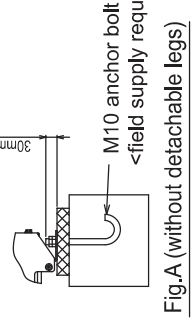


Fig.A (without detachable legs)

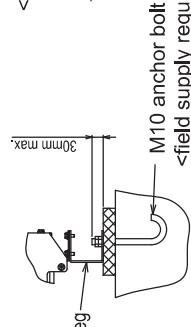
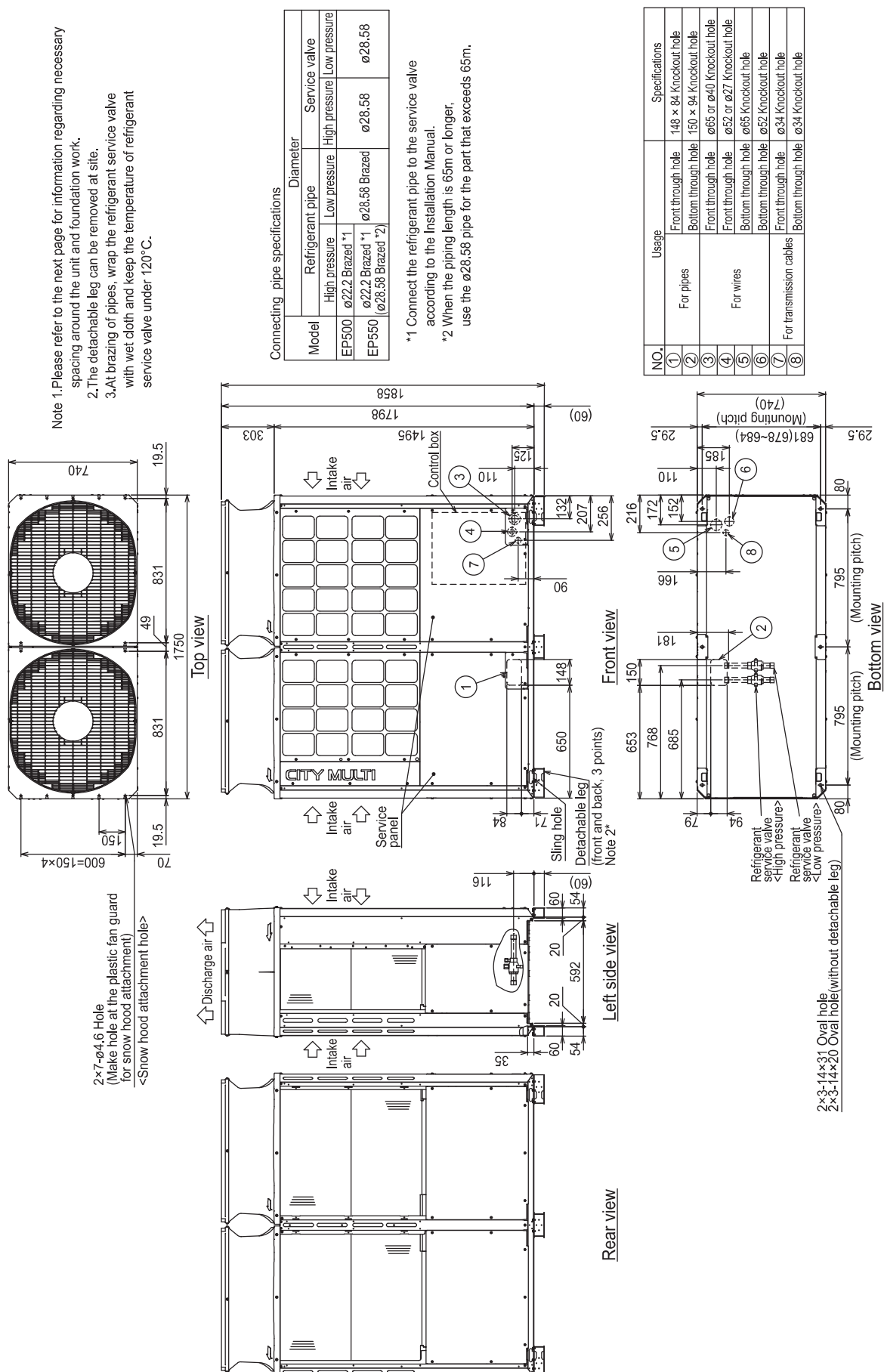


Fig.B (with detachable legs)

PURY-EP500, 550YNW-A(-BS)

Unit: mm

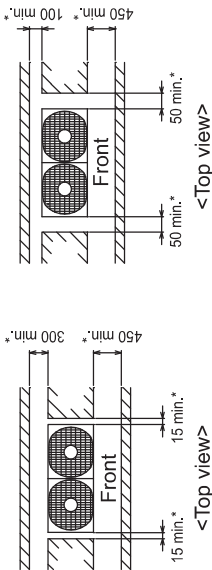


1.Required space around the unit

●In case of single installation

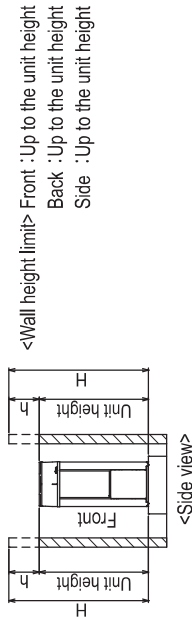
① Secure enough space around the unit as shown in the figure below.

- With a space of at least 300mm to the wall on the back of the unit



<Unit:mm>

② When the height of the walls on the front, back or on the sides<h> exceeds the wall height limit as defined below add the height that exceeds the height limit <h> to the figures that are marked with an asterisk.

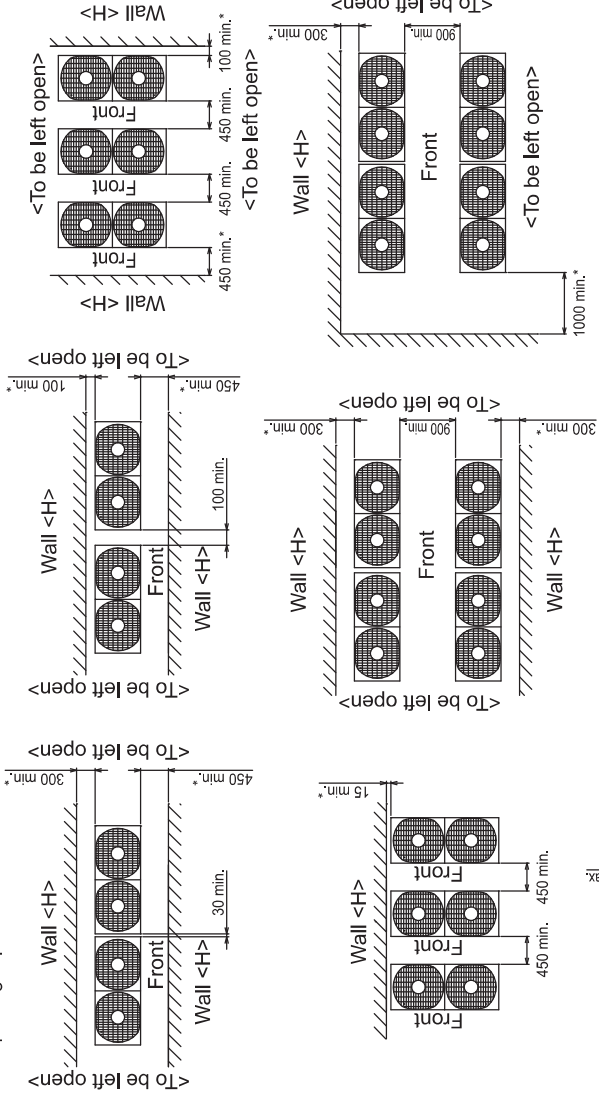


2.Foundation work

- Take into consideration the surface strength, water drainage route, piping route, and wiring route when preparing the installation site.
<Note that the drain water comes out of the unit during operation.>
- Build the foundation in such way that the corner of the installation leg is securely supported as shown in the right figure.(Fig.A,B)
When using a rubber isolating cushion, please ensure it is large enough to cover the entire width of each of the unit's legs.
- The protrusion length of the anchor bolt must not exceed 30mm.(Fig.A,B)
- Use four fixing plates as shown in the right figure <field supply required> when using post-installed anchor bolts.(Fig.C,D)
- To prevent small animals and water and snow from entering the unit and damaging its parts, close the gap around the edges of through holes for pipes and wires with filler plates <field supply required>.
- When the pipes or cables are routed at the bottom of the unit, make sure that the through hole at the base of the unit does not get blocked with the installation base.
- Refer to the Installation Manual when installing units on an installation base.

●In case of collective installation

- When multiple units are installed adjacent to each other, secure enough space to allow for air circulation and walkway between groups of units as shown in the figures below.
- At least two sides must be left open.
- As with the single installation, add the height that exceeds the height limit<h> to the figures that are marked with an asterisk.
- If there is a wall at both the front and the rear of the unit, install up to three units consecutively in the side direction and provide a space of 1000mm or more as inlet space/ passage space for each three units.



<Unit:mm>

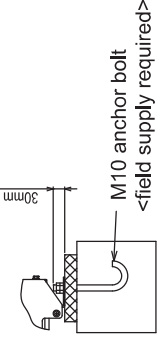


Fig.A (without detachable legs)



Fig.C (without detachable legs)

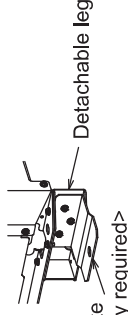


Fig.D (with detachable legs)

Unit: mm

Unit: mm



Twinnings pipe connection size						
Package unit name		PUR-EP400Y(SNW-A-BS)	PUR-EP450Y(SNW-A-BS)	PUR-EP500Y(SNW-A-BS)	PUR-EP550Y(SNW-A-BS)	PUR-EP600Y(SNW-A-BS)
Component unit name		PUR-EP200Y(NW-A-BS)	PUR-EP250Y(NW-A-BS)	PUR-EP300Y(NW-A-BS)	PUR-EP350Y(NW-A-BS)	PUR-EP400Y(NW-A-BS)
Outdoor unit 1		PUR-EP200Y(NW-A-BS)	PUR-EP250Y(NW-A-BS)	PUR-EP300Y(NW-A-BS)	PUR-EP350Y(NW-A-BS)	PUR-EP400Y(NW-A-BS)
Outdoor unit 2		PUR-EP200Y(NW-A-BS)	PUR-EP200Y(NW-A-BS)	PUR-EP250Y(NW-A-BS)	PUR-EP250Y(NW-A-BS)	PUR-EP300Y(NW-A-BS)
Outdoor Twinning Kit(optional parts)				CMY-R100VBK4		
High pressure a			ø22.2			ø22.2(ø28.58)*
Low pressure b						ø25.58

* When the piping length is 65m or longer, use the $\varnothing 28.58$ pipe for the part that exceeds 65m.

Note 1. Connect the pipes as shown in the figure above. Refer to the table above for the pipe size.

2. Twinning pipes should not be tilted more than 15 degrees from the horizontal plane.

CAUTION: Twinning pipes should not be tilted more than 15 degrees from the horizontal. Be sure to see the Installation Manual for details of Twinning pipe installation.

3. The pipe section before the Twinning pipe (section "a" and "b" in the figure) must have at least 500mm of straight section

(*including the straight pipe that is supplied with the Twinning pipe).

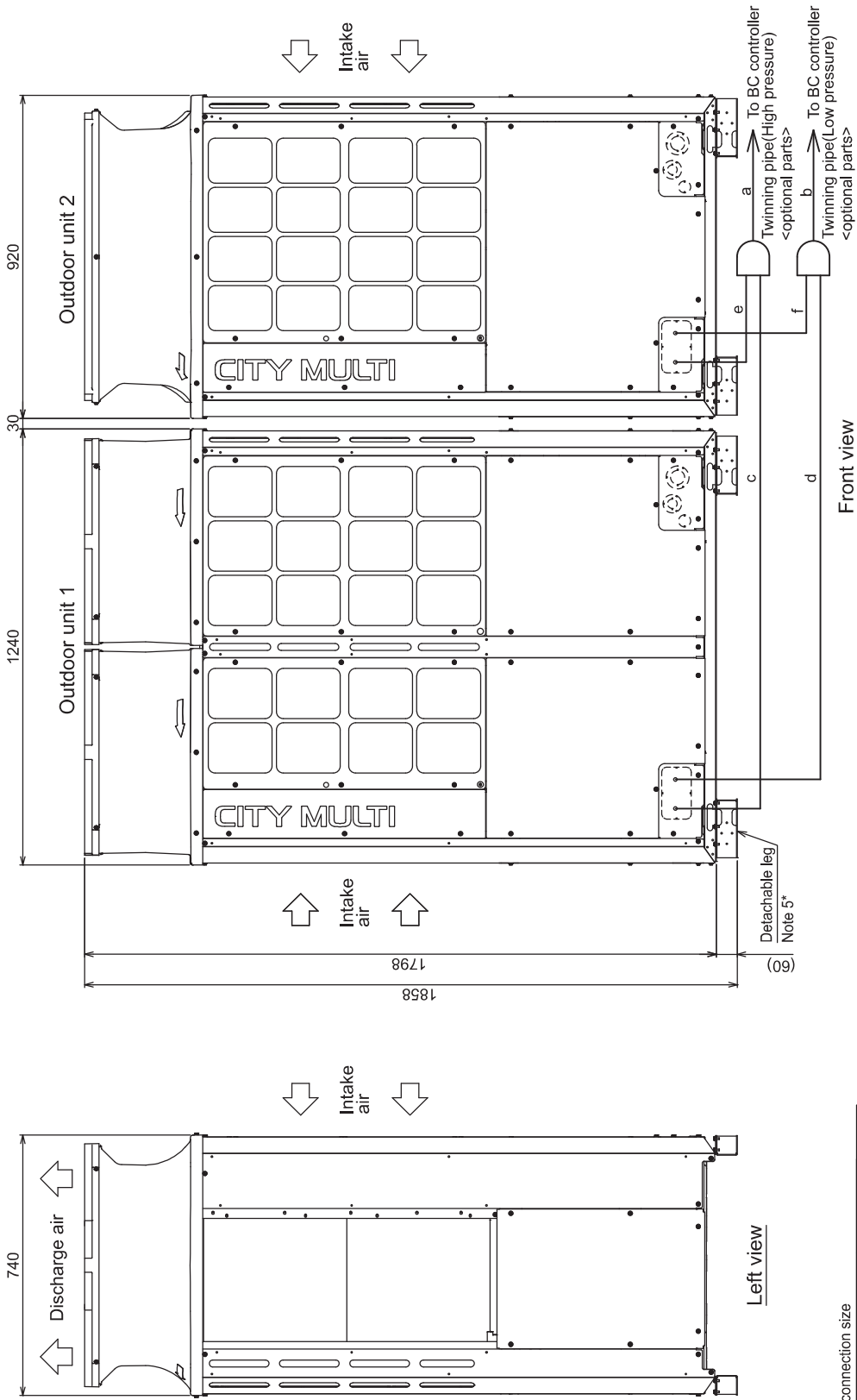
4. Only use the Twinning pipe by Mitsubishi (optional parts).

5. The detachable leg can be removed at site.

PURY-EP-Y(S)NW-A

PURY-EP650YSNW-A(-BS)

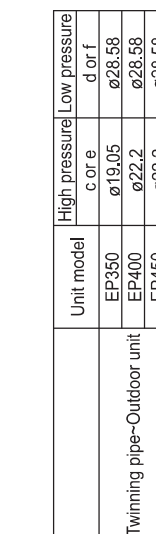
Unit: mm



Twinning pipe connection size	Package unit name	Outdoor unit 1	Outdoor unit 2	Outdoor unit 2	Outdoor unit 2	Outdoor unit 2	Outdoor unit 2	Outdoor unit 2	Outdoor unit 2
Component unit name	PURY-EP650YSNW-A(-BS)	PURY-EP350YNI4A(-BS)	PURY-EP350YNI4A(-BS)	PURY-EP350YNI4A(-BS)	PURY-EP350YNI4A(-BS)	PURY-EP350YNI4A(-BS)	PURY-EP350YNI4A(-BS)	PURY-EP350YNI4A(-BS)	PURY-EP350YNI4A(-BS)
Outdoor Twinning Kit(optional parts)		CMY-R100VBK4	CMY-R100VBK4	CMY-R100VBK4	CMY-R100VBK4	CMY-R100VBK4	CMY-R100VBK4	CMY-R100VBK4	CMY-R100VBK4
BC controller		High pressure a	High pressure b	High pressure c	High pressure d	High pressure e	High pressure f	High pressure g	High pressure h
~Twinning pipe		Low pressure a	Low pressure b	Low pressure c	Low pressure d	Low pressure e	Low pressure f	Low pressure g	Low pressure h

- Note 1. Connect the pipes as shown in the figure above. Refer to the table above for the pipe size.
2. Twinning pipes should not be tilted more than 15 degrees from the horizontal plane.
3. Be sure to see the Installation Manual for details of Twinning pipe installation.
4. The pipe section before the Twinning pipe (section "a" and "b" in the figure) must have at least 500mm of straight section (*including the straight pipe that is supplied with the Twinning pipe).
5. Only use the Twinning pipe by Mitsubishi (optional parts).
6. The detachable leg can be removed at site.

Unit: mm



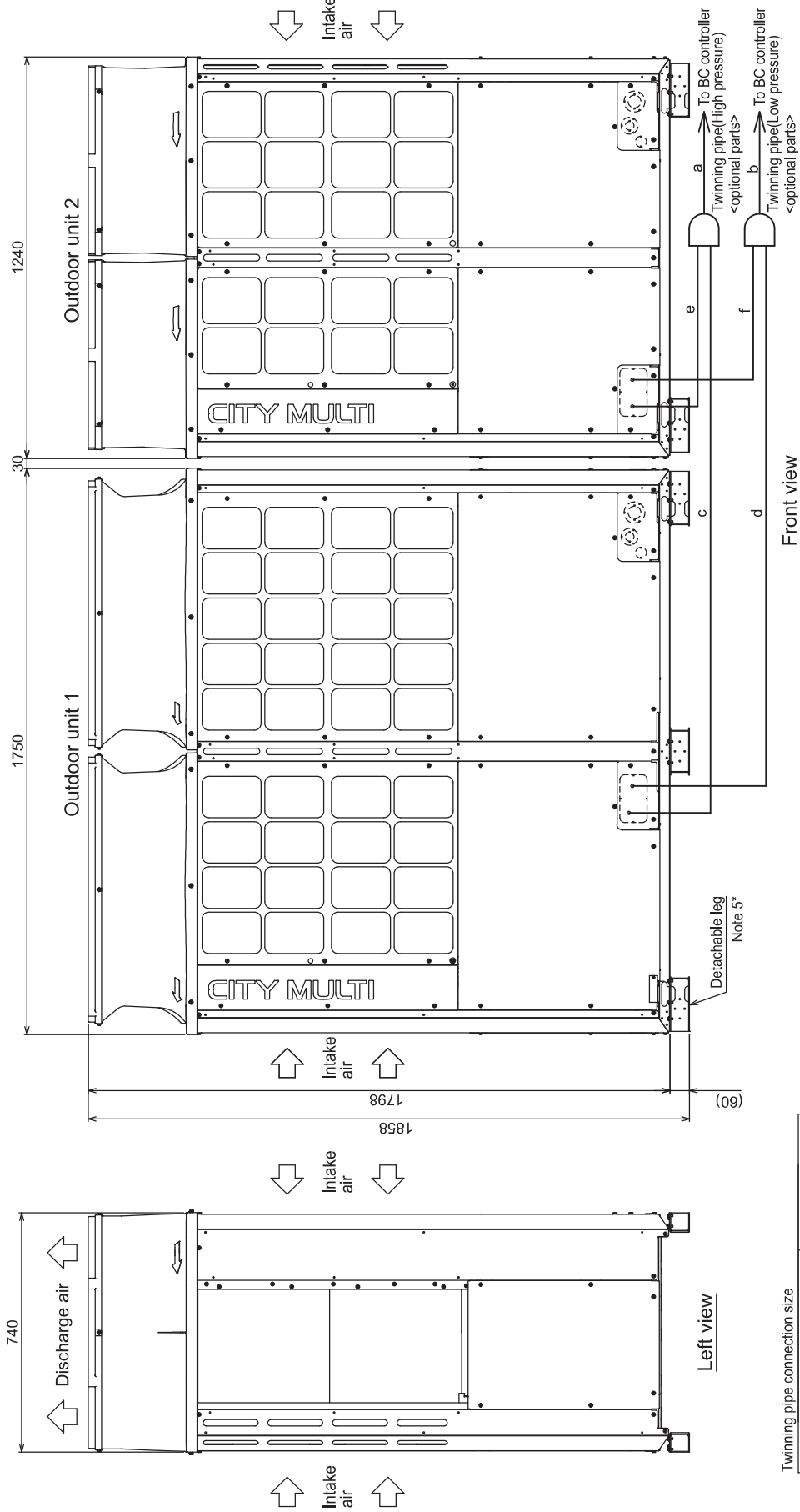
Twinning pipe connection size					
Package unit name	PUR-EP700Y(SNW-A)-(BS)	PUR-EP750Y(SNW-A)-(BS)	PUR-EP800Y(SNW-A)-(BS)	PUR-EP850Y(SNW-A)-(BS)	PUR-EP900Y(SNW-A)-(BS)
Component unit name	PUR-EP350Y(NW-A)-(BS)	PUR-EP400Y(NW-A)-(BS)	PUR-EP400Y(NW-A)-(BS)	PUR-EP450Y(NW-A)-(BS)	PUR-EP450Y(NW-A)-(BS)
Outdoor unit 1	PUR-EP350Y(NW-A)-(BS)	PUR-EP350Y(NW-A)-(BS)	PUR-EP350Y(NW-A)-(BS)	PUR-EP400Y(NW-A)-(BS)	PUR-EP450Y(NW-A)-(BS)
Outdoor unit 2	PUR-EP350Y(NW-A)-(BS)	PUR-EP350Y(NW-A)-(BS)	PUR-EP350Y(NW-A)-(BS)	PUR-EP400Y(NW-A)-(BS)	PUR-EP450Y(NW-A)-(BS)
Outdoor Twinning Kit(optional parts)	CMY-R200VBK4				
IBC controller	ø28.58				
~Twinning pipe	ø28.58				

1. Connect the pipes as shown in the figure above. Refer to the table above for the pipe size.
2. Twinning pipes should not be tilted more than 15 degrees from the horizontal plane.
Be sure to see the Installation Manual for details of Twinning pipe installation.
3. The pipe section before the Twinning pipe (section "a" and "b" in the figure) must have at least 500mm of straight section (*including the straight pipe that is supplied with the Twinning pipe).
4. Only use the Twinning pipe by Mitsubishi (optional parts).
The detachable leg can be removed at site.

PURY-EP-Y(S)NW-A

PURY-EP950YSNW-A(-BS)

Unit: mm



Twinning pipe connection size

Package unit name	PURY-EP950YSNW-A(-BS)
Component unit name	Outdoor unit 1 PURY-EP500YSNW-A(-BS)
Outdoor Twinning Kit(optional parts)	CMY-R200VBK4
BC controller	High pressure a Low pressure b
~Twinning pipe	High pressure a Low pressure b

Twinning pipe~Outdoor unit	Unit model	High pressure	Low pressure
EP450	EP450	c or e ø22.2	d or f ø28.58
EP500	EP500	ø22.2	ø28.58

- Note 1. Connect the pipes as shown in the figure above. Refer to the table above for the pipe size.
2. Twinning pipes should not be tilted more than 15 degrees from the horizontal plane.
Be sure to see the Installation Manual for details of Twinning pipe installation.
3. The pipe section before the Twinning pipe (section "a" and "b" in the figure) must have at least 500mm of straight section.
(*including the straight pipe that is supplied with the Twinning pipe).
4. Only use the Twinning pipe by Mitsubishi (optional parts).
5. The detachable leg can be removed at site.

Unit: mm



	Unit model	High pressure	Low pressure
		c o r e	d o r f
Twinning pipe~Outdoor unit	EP500	ø22.2	ø28.58
	EP550	ø22.2	ø28.58

Twinning pipe connection size			
Package unit name	Outdoor unit 1	PUR-EP100Y/NW-A-(BS)	PUR-EP100Y/NW-A-(BS)
Component unit name	Outdoor unit 2	PUR-EP500Y/NW-A-(BS)	PUR-EP500Y/NW-A-(BS)
Outdoor Twinning kit(optional parts)		PUR-EP500Y/NW-A-(BS)	PUR-EP500Y/NW-A-(BS)
BC controller	High pressure a		
BC controller	Low pressure b		
		ø28.58	ø34.93
			ø41.28

Note 1. Connect the pipes as shown in the figure above. Refer to the table above for the pipe size.

2. Twinning pipes should not be tilted more than 15 degrees from the horizontal plane.

Be sure to see the Installation Manual for details of Twinning pipe installation.

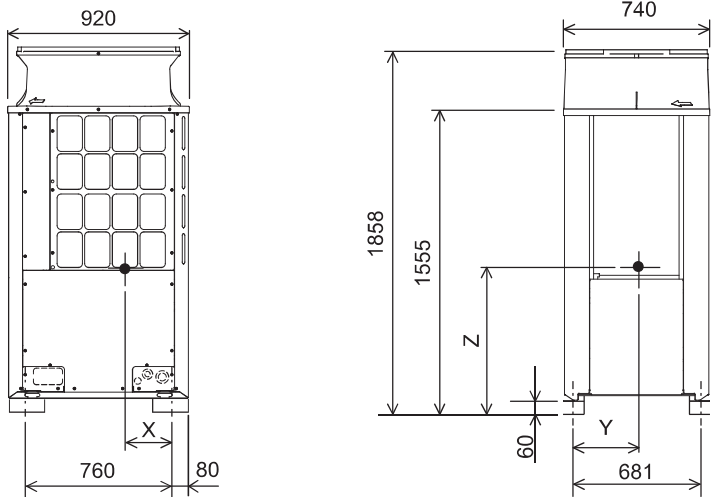
3. The pipe section before the Twinning pipe (section "a" and "b" in the figure) must have at least 500mm of straight section

(*including the straight pipe that is supplied with the Twinning pipe).

4. Only use the Twinning pipe by Mitsubishi (optional parts).

5. The detachable leg can be removed at site.

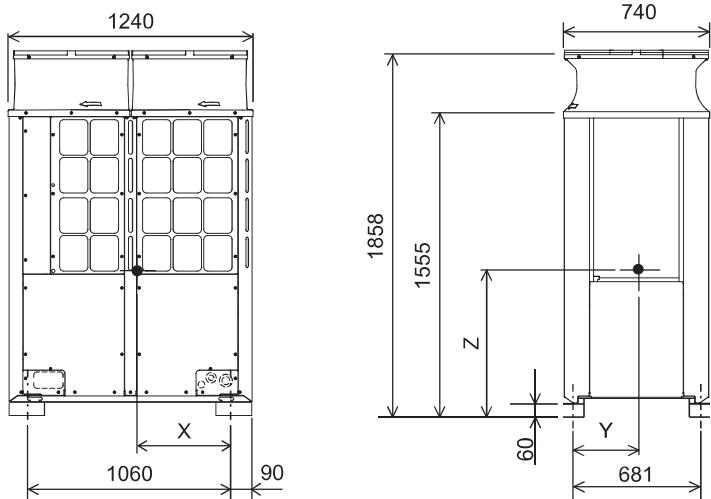
PURY-EP200, 250, 300YNW-A (-BS)



Unit: mm

Model	X	Y	Z
PURY-EP200YNW-A(-BS)	355	339	682
PURY-EP250YNW-A(-BS)	355	339	682
PURY-EP300YNW-A(-BS)	355	339	679

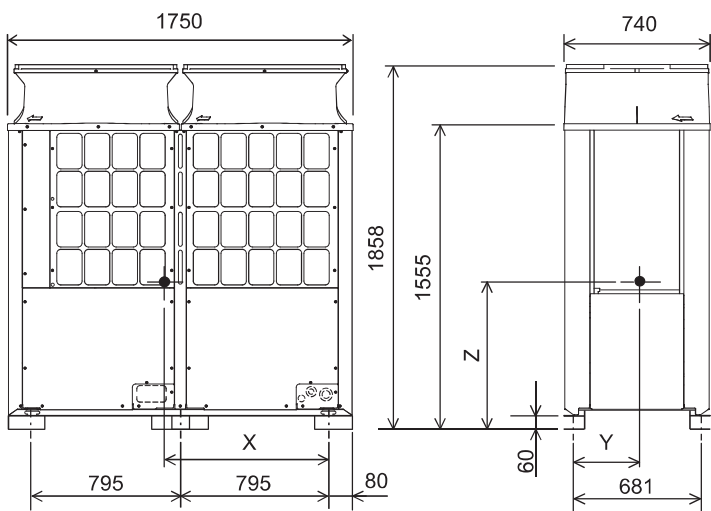
PURY-EP350, 400, 450YNW-A (-BS)



Unit: mm

Model	X	Y	Z
PURY-EP350YNW-A(-BS)	501	344	729
PURY-EP400YNW-A(-BS)	502	346	727
PURY-EP450YNW-A(-BS)	503	346	755

PURY-EP500, 550YNW-A (-BS)



Unit: mm

Model	X	Y	Z
PURY-EP500YNW-A(-BS)	867	307	730
PURY-EP550YNW-A(-BS)	867	307	730

PURY-EP-Y(S)NW-A

The diagram illustrates the electrical connections for a control system, organized into three main functional areas: PS Board, FAN Board, and INV Board, all connected to a central Control Board.

- PS Board (Power Supply Board):** Contains power supply circuits for PM, CPU, and M-NET. It includes a fan control circuit with a fan speed sensor (FAN) and a fan speed switch (FAN SW).
- FAN Board:** Features a fan control circuit with a fan speed sensor (FAN) and a fan speed switch (FAN SW).
- INV Board (Inverter Board):** Includes a power supply circuit, a fan control circuit, and a fan speed sensor (FAN).
- Control Board:** The central unit that manages the system. It includes a power supply circuit, a fan control circuit, and a fan speed sensor (FAN).
- Power Source:** A 380V/400V/415V supply with a 50/60Hz frequency, connected to the system via a power switch (PWR SW).
- Wiring Details:** The diagram shows the connection of various components, including relays, switches, and sensors, to the central control unit. It includes a legend for the symbols used.

1. Single-dotted lines indicate wiring not supplied with the unit.
2. Do-dash lines indicate the control box boundaries.
3. Refer to the Data book for connecting input/output signal connectors.
4. Daisy-chain terminals (TB3) on the outdoor units in the same refrigerant system together.
5. Faston terminals have a locking function.
Make sure the terminals are securely locked in place after insertion. Press the tab on the terminals to removed them.
6. Control box houses high-voltage parts.
Before inspecting the inside of the MAIN BOX or INV BOX, turn off the power, keep the unit off for at least 10 minutes, and confirm that the voltage of the connector RYPN on INV BOX has dropped to DC20V or less.

LED2	Normal operation(LiFeR0(SbKs))	
LED3	SWW-10 is OFF and In operation(LiFeR stop(Unlt)) SWW-10 is OFF and In operation(LiFeR stop(Unlt))	
LED4	SWW-10 is ON	Factor setting by SWW mode(LiFeR stop(Unlt))
LED1	USB connection With LiFeR(Unlt)	
LED101	Normal operation(LiFeR Error(Unlt))	
LED102	Normal operation(LiFeR(SbKs)) for central control transmission	
LED103	Normal operation(LiFeR(SbKs)) for outdoor transmission	

***8. Difference of appliance.**

PURV	*g do not exist
*9. Difference of appliance.	

PURY	LEV9
PURY	LEV2d

model name	LEV1
PUHY	

Model name	Appliance
PURH-P,PURH	*11 do not exist
PURH-EP	*11 exist

<Symbol explanation>

Component	Function
2152a	Combinational switching
2154a	Heat exchanger capacity control only
	PURV mode
63H1	Coil/heating switching
	Coil protection for the outdoor unit
63HS1	Discharge pressure
63LS	Low pressure
ACCT/ACTC2	Current sensor (AC)
C700 (C701, C702, C703)	Capacitor (inverter main circuit)
DC	DC reactor
	Choke coil for high frequency noise reduction
LEV1*10	HFC bypass. Controls refrigerant flow in HFC circuit
LEV2ab	Pressure control. Refrigerant flow rate control
LEV2a*	Pressure control. Refrigerant flow rate control
LEV2a*	Heat exchanger for inverter
LEV9*10	For current prevention
RT5	For current prevention
RSR01/0203	For opening/closing the bypass circuit under the OS
SV1a	For opening/closing the bypass circuit
SV2	For opening/closing the bypass circuit
SV9*3	For continuous heating
SV10*8	For changing refrigerant flow (cooling/heating)
SV14.05*11	Power supply
TB1	Indoor outdoor transmission cable
TB3	Indoor control transmission cable
HC*3	Pipe temperature
TH3	Pipe temperature
TH4	Discharge pipe temperature
TH5	ACC inlet pipe temperature
TH8	Subcooled liquid refrigerant temperature
TH7	Oil temperature
TH15	Compressor shaft bottom temperature

X901,X902	Magnetic relay(inverter main circuit)
Z22,Z24,Z25	Function setting connector

PURY-EP-Y(S)NW-A