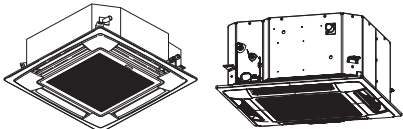
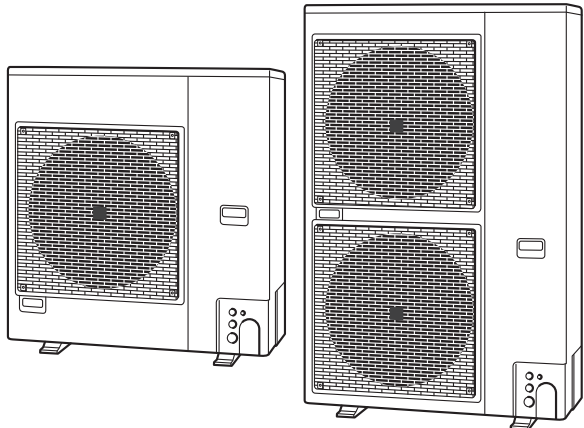
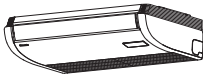
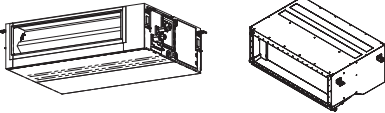


TECHNICAL DATA & SERVICE MANUAL



Indoor Unit		Outdoor Unit	
	4-Way Cassette 4-Way Cassette 60 x 60		
	Ceiling		
	Wall Mounted		
	Low Silhouette Ducted Ducted		

■ R410A Models

Model No.

Indoor Units

Type	Indoor Units Type	36	45	50	60	71	100	125	140
U1	4-Way Cassette	S-36PU1E5A	S-45PU1E5A	S-50PU1E5A	S-60PU1E5A	S-71PU1E5A	S-100PU1E5A	S-125PU1E5A	S-140PU1E5A
T2	Ceiling	S-36PT2E5A	S-45PT2E5A	S-50PT2E5A	S-60PT2E5A	S-71PT2E5A	S-100PT2E5A	S-125PT2E5A	S-140PT2E5A
K1	Wall Mounted	S-36PK1E5A	S-45PK1E5A	S-50PK1E5A	S-60PK1E5A	S-71PK1E5A	S-100PK1E5A	—	—
F1	Low Silhouette Ducted	S-36PF1E5A	S-45PF1E5A	S-50PF1E5A	S-60PF1E5A	S-71PF1E5A	S-100PF1E5A	S-125PF1E5A	S-140PF1E5A
N1	Ducted	S-36PN1E5A	S-45PN1E5A	S-50PN1E5A	S-60PN1E5A	S-71PN1E5A	S-100PN1E5A	S-125PN1E5A	S-140PN1E5A
Y2	4-Way Cassette 60 x 60	S-36PY2E5A	S-45PY2E5A	S-50PY2E5A	—	—	—	—	—

Outdoor Units

Type	Outdoor Units Type	50	60	71	100	125	140
PE1	Single Split (1-phase)	U-50PE1E5	U-60PE1E5A	U-71PE1E5A	U-100PE1E5A	U-125PE1E5A	U-140PE1E5A
	Single Split (3-phase)	—	—	U-71PE1E8A	U-100PE1E8A	U-125PE1E8A	U-140PE1E8A
PEY1	Single Split (1-phase)	—	U-60PEY1E5	U-71PEY1E5	U-100PEY1E5	U-125PEY1E5	—
	Single Split (3-phase)	—	—	—	U-100PEY1E8	U-125PEY1E8	U-140PEY1E8

IMPORTANT!

Please Read Before Starting

This air conditioner must be installed by the sales dealer or installer.

This information is provided for use only by authorized persons.

For safe installation and trouble-free operation, you must:

- Carefully read this instruction booklet before beginning.
- Follow each installation or repair step exactly as shown.
- This air conditioner shall be installed in accordance with National Wiring Regulations.
- Pay close attention to all warning and caution notices given in this manual.



WARNING

This symbol refers to a hazard or unsafe practice which can result in severe personal injury or death.



CAUTION

This symbol refers to a hazard or unsafe practice which can result in personal injury or product or property damage.

If Necessary, Get Help

These instructions are all you need for most installation sites and maintenance conditions. If you require help for a special problem, contact our sales/service outlet or your certified dealer for additional instructions.

In Case of Improper Installation

The manufacturer shall in no way be responsible for improper installation or maintenance service, including failure to follow the instructions in this document.

SPECIAL PRECAUTIONA



WARNING When Wiring



ELECTRICAL SHOCK CAN CAUSE SEVERE PERSONAL INJURY OR DEATH. ONLY A QUALIFIED, EXPERIENCED ELECTRICIAN SHOULD ATTEMPT TO WIRE THIS SYSTEM.

- Do not supply power to the unit until all wiring and tubing are completed or reconnected and checked.
- Highly dangerous electrical voltages are used in this system. Carefully refer to the wiring diagram and these instructions when wiring. Improper connections and inadequate grounding can cause **accidental injury or death**.
- Connect all wiring tightly. Loose wiring may cause overheating at connection points and a possible fire hazard.
- To prevent possible hazards from insulation failure, the unit must be grounded.



- Provide a power outlet exclusively for each unit, and full disconnection means having a contact separation in all poles must be incorporated in the fixed wiring in accordance with the wiring rules.
- This equipment is strongly recommended to be installed with Earth Leakage Circuit Breaker (ELCB) or Residual Current Device (RCD). Otherwise, it may cause electrical shock and fire in case of equipment breakdown or insulation breakdown.

When Transporting

Be careful when picking up and moving the indoor and outdoor units. Get a partner to help, and bend your knees when lifting to reduce strain on your back. Sharp edges or thin aluminum fins on the air conditioner can cut your fingers.

When Installing...

Select an installation location which is rigid and strong enough to support or hold the unit, and select a location for easy maintenance.

...In a Room

Properly insulate any tubing run inside a room to prevent "sweating" that can cause dripping and water damage to walls and floors.



CAUTION

Keep the fire alarm and the air outlet at least 1.5 m away from the unit.

...In Moist or Uneven Locations

Use a raised concrete pad or concrete blocks to provide a solid, level foundation for the outdoor unit. This prevents water damage and abnormal vibration.

...In an Area with High Winds

Securely anchor the outdoor unit down with bolts and a metal frame. Provide a suitable air baffle.

...In a Snowy Area (for Heat Pump-type Systems)

Install the outdoor unit on a raised platform that is higher than drifting snow. Provide snow vents.

...At least 2.5 m

Indoor unit of this air conditioner shall be installed in a height of at least 2.5 m.

...In laundry rooms

Do not install in laundry rooms. Indoor unit is not drip proof.

When Connecting Refrigerant Tubing



WARNING

- When performing piping work do not mix air except for specified refrigerant (R410A) in refrigeration cycle. It causes capacity down, and risk of explosion and injury due to high tension inside the refrigerant cycle.
 - Refrigerant gas leakage may cause fire.
 - Do not add or replace refrigerant other than specified type. It may cause product damage, burst and injury, etc.
- Ventilate the room well, in the event that is refrigerant gas leaks during the installation. Be careful not to allow contact of the refrigerant gas with a flame as this will cause the generation of poisonous gas.
 - Keep all tubing runs as short as possible.
 - Use the flare method for connecting tubing.
 - Apply refrigerant lubricant to the matching surfaces of the flare and union tubes before connecting them, then tighten the nut with a torque wrench for a leak-free connection.
 - Check carefully for leaks before starting the test run.
 - Do not leak refrigerant while piping work for an installation or re-installation, and while repairing refrigeration parts. Handle liquid refrigerant carefully as it may cause frostbite.

When Servicing

- Turn the power OFF at the main power box (mains) before opening the unit to check or repair electrical parts and wiring. 
- Keep your fingers and clothing away from any moving parts.
- Clean up the site after you finish, remembering to check that no metal scraps or bits of wiring have been left inside the unit being serviced.



WARNING

- This product must not be modified or disassembled under any circumstances. Modified or disassembled unit may cause fire, electric shock or injury.
- Do not clean inside the indoor and outdoor units by users. Engage authorized dealer or specialist for cleaning.
- In case of malfunction of this appliance, do not repair by yourself. Contact the sales dealer or service dealer for repair.



CAUTION

- Do not touch the air inlet or the sharp aluminum fins of the outdoor unit. You may get injured. 
- Ventilate any enclosed areas when installing or testing the refrigeration system. Escaped refrigerant gas, on contact with fire or heat, can produce dangerously toxic gas.
- Confirm after installation that no refrigerant gas is leaking. If the gas comes in contact with a burning stove, gas water heater, electric room heater or other heat source, it can cause the generation of poisonous gas.

Others



WARNING

- Do not sit or step on the unit, you may fall down accidentally. 



CAUTION

- Do not touch the air inlet or the sharp aluminum fins of the outdoor unit. You may get injured. 
- Do not stick any object into the FAN CASE. You may be injured and the unit may be damaged. 


Check of Density Limit

The room in which the air conditioner is to be installed requires a design that in the event of refrigerant gas leaking out, its density will not exceed a set limit.

The refrigerant (R410A), which is used in the air conditioner, is safe, without the toxicity or combustibility of ammonia, and is not restricted by laws imposed to protect the ozone layer. However, since it contains more than air, it poses the risk of suffocation if its density should rise excessively. Suffocation from leakage of refrigerant is almost non-existent. With the recent increase in the number of high density buildings, however, the installation of multi air conditioner systems is on the increase because of the need for effective use of floor space, individual control, and energy conservation by curtailing heat and carrying power, etc.

Most importantly, the multi air conditioner system is able to replenish a large amount of refrigerant compared to conventional individual air conditioners. If a single unit of the multi air conditioner system is to be installed in a small room, select a suitable model and installation procedure so that if the refrigerant accidentally leaks out, its density does not reach the limit (and in the event of an emergency, measures can be made before injury can occur).

In a room where the density may exceed the limit, create an opening with adjacent rooms, or install mechanical ventilation combined with a gas leak detection device. The density is as given below.

Total amount of refrigerant (kg)

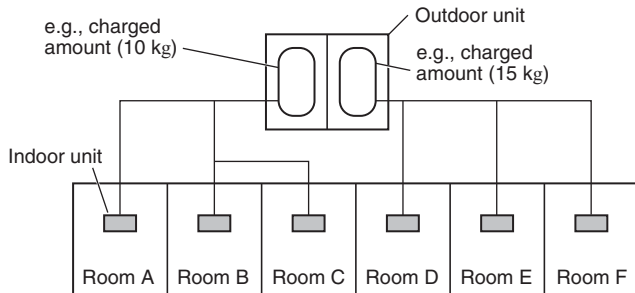
$$\text{Min. volume of the indoor unit installed room (m}^3\text{)} \leq \text{Density limit (kg/m}^3\text{)}$$

The density limit of refrigerant which is used in multi air conditioners is 0.3 kg/m³ (ISO 5149).

NOTE

- If there are 2 or more refrigerating systems in a single refrigerating device, the amount of refrigerant should be as charged in each independent device.

For the amount of charge in this example:



The possible amount of leaked refrigerant gas in rooms A, B and C is 10 kg.

The possible amount of leaked refrigerant gas in rooms D, E and F is 15 kg.



RoHS

This product does not contain any hazardous substances prohibited by the RoHS Directive.

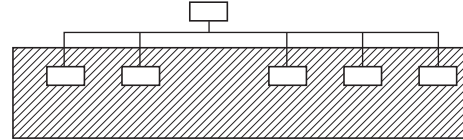


WARNING

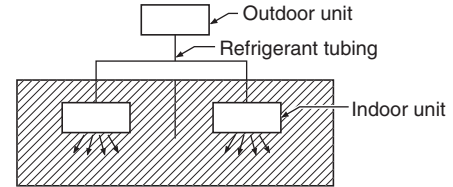
You are requested to use RoHS compliant for maintenance or repair.

- The standards for minimum room volume are as follows.

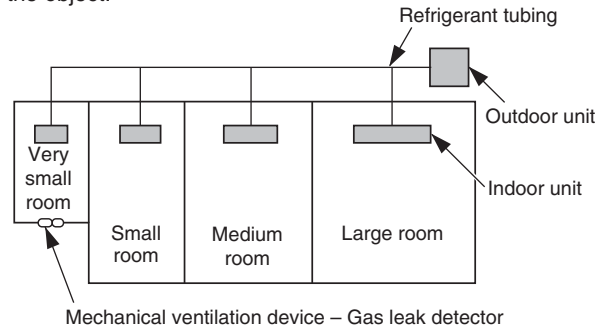
- (1) No partition (shaded portion)



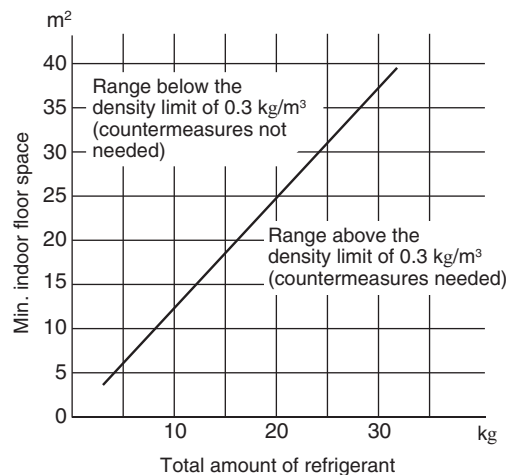
- (2) When there is an effective opening with the adjacent room for ventilation of leaking refrigerant gas (opening without a door, or an opening 0.15% or larger than the respective floor spaces at the top or bottom of the door).



- (3) If an indoor unit is installed in each partitioned room and the refrigerant tubing is interconnected, the smallest room of course becomes the object. But when mechanical ventilation is installed interlocked with a gas leakage detector in the smallest room where the density limit is exceeded, the volume of the next smallest room becomes the object.



- The minimum indoor floor space compared with the amount of refrigerant is roughly as follows (for room with 2.7 m high ceiling):



IMPORTANT INFORMATION REGARDING THE REFRIGERANT USED

This product contains fluorinated greenhouse gases covered by the Kyoto Protocol. Do not vent gases into the atmosphere.

Refrigerant type: R410A

GWP⁽¹⁾ value: 1975

⁽¹⁾GWP = global warming potential

Periodical inspections for refrigerant leaks may be required depending on European or local legislation.
Please contact your local dealer for more information.

Please fill in with indelible ink,

- ① the factory refrigerant charge of the product
 - ② the additional refrigerant amount charged in the field and
 - ① + ② the total refrigerant charge
- on the refrigerant charge label supplied with the product.

The filled out label must be adhered in the proximity of the product charging port (e.g. onto the inside of the service cover).

The diagram shows a rectangular label with a double border. At the top left is a small icon of a document. To its right is the text: "This product contains fluorinated greenhouse gases covered by the Kyoto Protocol." Below this is a large black box with "R410A" in white. To the right of "R410A" are three rows of input fields, each followed by "kg". The first row is "① = [] kg", the second is "② = [] kg", and the third is "① + ② = [] kg". To the left of these fields is a diagram of a charging manifold with two ports labeled ① and ②. Port ① is connected to a grid-like outdoor unit. Port ② is connected to a refrigerant cylinder. Below the manifold diagram are the numbers 5 and 6. To the right of the label, numbers 1, 2, and 3 point to the three input fields. To the right of the entire diagram, numbers 4, 1, 2, and 3 point to the text, the first field, the second field, and the third field respectively. At the bottom right, a note states: "* English text printed on this label is original. Each language label will be sealed on this original text."

1. Factory refrigerant charge of the product: see unit name plate

2. Additional refrigerant amount charged in the field

3. Total refrigerant charge

4. Contains fluorinated greenhouse gases covered by the Kyoto Protocol

5. Outdoor unit

6. Refrigerant cylinder and manifold for charging

* English text printed on this label is original. Each language label will be sealed on this original text.

Combination of Indoor and Outdoor Units

PE1

Single-phase

	36	45	50	60	71	100	125	140
U1	S-36PU1E5A x2 U-71PE1E5A P2	S-45PU1E5A x3 U-125PE1E5A P5	S-50PU1E5A U-50PE1E5 P6	S-60PU1E5A U-60PE1E5A P9	S-71PU1E5A U-71PE1E5A P11	S-100PU1E5A U-100PE1E5A P13	S-125PU1E5A U-125PE1E5A P14	S-140PU1E5A U-140PE1E5A P15
	S-36PU1E5A x3 U-100PE1E5A P3		S-50PU1E5A x2 U-100PE1E5A P7	S-60PU1E5A x2 U-125PE1E5A P10	S-71PU1E5A x2 U-140PE1E5A P12			
	S-36PU1E5A x4 U-125PE1E5A P4		S-50PU1E5A x3 U-140PE1E5A P8					
T2	S-36PT2E5A x2 U-71PE1E5A P28	S-45PT2E5A x3 U-125PE1E5A P31	S-50PT2E5A U-50PE1E5 P32	S-60PT2E5A U-60PE1E5A P35	S-71PT2E5A U-71PE1E5A P37	S-100PT2E5A U-100PE1E5A P39	S-125PT2E5A U-125PE1E5A P40	S-140PT2E5A U-140PE1E5A P41
	S-36PT2E5A x3 U-100PE1E5A P29		S-50PT2E5A x2 U-100PE1E5A P33	S-60PT2E5A x2 U-125PE1E5A P36	S-71PT2E5A x2 U-140PE1E5A P38			
	S-36PT2E5A x4 U-125PE1E5A P30		S-50PT2E5A x3 U-140PE1E5A P34					
K1	S-36PK1E5A x2 U-71PE1E5A P54	S-45PK1E5A x3 U-125PE1E5A P57	S-50PK1E5A U-50PE1E5 P58	S-60PK1E5A U-60PE1E5A P61	S-71PK1E5A U-71PE1E5A P63	S-100PK1E5A U-100PE1E5A P65		
	S-36PK1E5A x3 U-100PE1E5A P55		S-50PK1E5A x2 U-100PE1E5A P59	S-60PK1E5A x2 U-125PE1E5A P62	S-71PK1E5A x2 U-140PE1E5A P64			
	S-36PK1E5A x4 U-125PE1E5A P56		S-50PK1E5A x3 U-140PE1E5A P60					
F1	S-36PF1E5A x2 U-71PE1E5A P76	S-45PF1E5A x3 U-125PE1E5A P79	S-50PF1E5A U-50PE1E5 P80	S-60PF1E5A U-60PE1E5A P83	S-71PF1E5A U-71PE1E5A P85	S-100PF1E5A U-100PE1E5A P87	S-125PF1E5A U-125PE1E5A P88	S-140PF1E5A U-140PE1E5A P89
	S-36PF1E5A x3 U-100PE1E5A P77		S-50PF1E5A x2 U-100PE1E5A P81	S-60PF1E5A x2 U-125PE1E5A P84	S-71PF1E5A x2 U-140PE1E5A P86			
	S-36PF1E5A x4 U-125PE1E5A P78		S-50PF1E5A x3 U-140PE1E5A P82					
N1	S-36PN1E5A x2 U-71PE1E5A P102	S-45PN1E5A x3 U-125PE1E5A P105	S-50PN1E5A U-50PE1E5 P106	S-60PN1E5A U-60PE1E5A P109	S-71PN1E5A U-71PE1E5A P111	S-100PN1E5A U-100PE1E5A P113	S-125PN1E5A U-125PE1E5A P114	S-140PN1E5A U-140PE1E5A P115
	S-36PN1E5A x3 U-100PE1E5A P103		S-50PN1E5A x2 U-100PE1E5A P107	S-60PN1E5A x2 U-125PE1E5A P110	S-71PN1E5A x2 U-140PE1E5A P112			
	S-36PN1E5A x4 U-125PE1E5A P104		S-50PN1E5A x3 U-140PE1E5A P108					
Y2	S-36PY2E5A x2 U-71PE1E5A P128	S-45PY2E5A x3 U-125PE1E5A P131	S-50PY2E5A U-50PE1E5 P132					
	S-36PY2E5A x3 U-100PE1E5A P129		S-50PY2E5A x2 U-100PE1E5A P133					
	S-36PY2E5A x4 U-125PE1E5A P130		S-50PY2E5A x3 U-140PE1E5A P134					

Combination of Indoor and Outdoor Units

PE1

3-phase

	36	45	50	60	71	100	125	140
U1	S-36PU1E5A x2 U-71PE1E8A P16	S-45PU1E5A x3 U-125PE1E8A P19	S-50PU1E5A x2 U-100PE1E8A P20	S-60PU1E5A x2 U-125PE1E8A P22	S-71PU1E5A U-71PE1E8A P23	S-100PU1E5A U-100PE1E8A P25	S-125PU1E5A U-125PE1E8A P26	S-140PU1E5A U-140PE1E8A P27
	S-36PU1E5A x3 U-100PE1E8A P17		S-50PU1E5A x3 U-140PE1E8A P21		S-71PU1E5A x2 U-140PE1E8A P24			
	S-36PU1E5A x4 U-125PE1E8A P18							
T2	S-36PT2E5A x2 U-71PE1E8A P42	S-45PT2E5A x3 U-125PE1E8A P45	S-50PT2E5A x2 U-100PE1E8A P46	S-60PT2E5A x2 U-125PE1E8A P48	S-71PT2E5A U-71PE1E8A P49	S-100PT2E5A U-100PE1E8A P51	S-125PT2E5A U-125PE1E8A P52	S-140PT2E5A U-140PE1E8A P53
	S-36PT2E5A x3 U-100PE1E8A P43		S-50PT2E5A x3 U-140PE1E8A P47		S-71PT2E5A x2 U-140PE1E8A P50			
	S-36PT2E5A x4 U-125PE1E8A P44							
K1	S-36PK1E5A x2 U-71PE1E8A P66	S-45PK1E5A x3 U-125PE1E8A P69	S-50PK1E5A x2 U-100PE1E8A P70	S-60PK1E5A x2 U-125PE1E8A P72	S-71PK1E5A U-71PE1E8A P73	S-100PK1E5A U-100PE1E8A P75		
	S-36PK1E5A x3 U-100PE1E8A P67		S-50PK1E5A x3 U-140PE1E8A P71		S-71PK1E5A x2 U-140PE1E8A P74			
	S-36PK1E5A x4 U-125PE1E8A P68							
F1	S-36PF1E5A x2 U-71PE1E8A P90	S-45PF1E5A x3 U-125PE1E8A P93	S-50PF1E5A x2 U-100PE1E8A P94	S-60PF1E5A x2 U-125PE1E8A P96	S-71PF1E5A U-71PE1E8A P97	S-100PF1E5A U-100PE1E8A P99	S-125PF1E5A U-125PE1E8A P100	S-140PF1E5A U-140PE1E8A P101
	S-36PF1E5A x3 U-100PE1E8A P91		S-50PF1E5A x3 U-140PE1E8A P95		S-71PF1E5A x2 U-140PE1E8A P98			
	S-36PF1E5A x4 U-125PE1E8A P92							
N1	S-36PN1E5A x2 U-71PE1E8A P116	S-45PN1E5A x3 U-125PE1E8A P119	S-50PN1E5A x2 U-100PE1E8A P120	S-60PN1E5A x2 U-125PE1E8A P122	S-71PN1E5A U-71PE1E8A P123	S-100PN1E5A U-100PE1E8A P125	S-125PN1E5A U-125PE1E8A P126	S-140PN1E5A U-140PE1E8A P127
	S-36PN1E5A x3 U-100PE1E8A P117		S-50PN1E5A x3 U-140PE1E8A P121		S-71PN1E5A x2 U-140PE1E8A P124			
	S-36PN1E5A x4 U-125PE1E8A P118							
Y2	S-36PY2E5A x2 U-71PE1E8A P135	S-45PY2E5A x3 U-125PE1E8A P138	S-50PY2E5A x2 U-100PE1E8A P139					
	S-36PY2E5A x3 U-100PE1E8A P136		S-50PY2E5A x3 U-140PE1E8A P140					
	S-36PY2E5A x4 U-125PE1E8A P137							

Combination of Indoor and Outdoor Units

PEY1

Single-phase

	36	50	60	71	100	125	140
U1	S-36PU1E5A x2 U-71PEY1E5 P141	S-50PU1E5A x2 U-100PEY1E5 P142	S-60PU1E5A U-60PEY1E5 P143	S-71PU1E5A U-71PEY1E5 P145	S-100PU1E5A U-100PEY1E5 P146	S-125PU1E5A U-125PEY1E5 P147	
			S-60PU1E5A x2 U-125PEY1E5 P144				
T2	S-36PT2E5A x2 U-71PEY1E5 P154	S-50PT2E5A x2 U-100PEY1E5 P155	S-60PT2E5A U-60PEY1E5 P156	S-71PT2E5A U-71PEY1E5 P158	S-100PT2E5A U-100PEY1E5 P159	S-125PT2E5A U-125PEY1E5 P160	
			S-60PT2E5A x2 U-125PEY1E5 P157				
K1	S-36PK1E5A x2 U-71PEY1E5 P167	S-50PK1E5A x2 U-100PEY1E5 P168	S-60PK1E5A U-60PEY1E5 P169	S-71PK1E5A U-71PEY1E5 P171	S-100PK1E5A U-100PEY1E5 P172		
			S-60PK1E5A x2 U-125PEY1E5 P170				
F1	S-36PF1E5A x2 U-71PEY1E5 P177	S-50PF1E5A x2 U-100PEY1E5 P178	S-60PF1E5A U-60PEY1E5 P179	S-71PF1E5A U-71PEY1E5 P181	S-100PF1E5A U-100PEY1E5 P182	S-125PF1E5A U-125PEY1E5 P183	
			S-60PF1E5A x2 U-125PEY1E5 P180				
N1	S-36PN1E5A x2 U-71PEY1E5 P190	S-50PN1E5A x2 U-100PEY1E5 P191	S-60PN1E5A U-60PEY1E5 P192	S-71PN1E5A U-71PEY1E5 P194	S-100PN1E5A U-100PEY1E5 P195	S-125PN1E5A U-125PEY1E5 P196	
			S-60PN1E5A x2 U-125PEY1E5 P193				
Y2	S-36PY2E5A x2 U-71PEY1E5 P203	S-50PY2E5A x2 U-100PEY1E5 P204					

3-phase

	36	50	60	71	100	125	140
U1		S-50PU1E5A x2 U-100PEY1E8 P148	S-60PU1E5A x2 U-125PEY1E8 P149	S-71PU1E5A x2 U-140PEY1E8 P150	S-100PU1E5A U-100PEY1E8 P151	S-125PU1E5A U-125PEY1E8 P152	S-140PU1E5A U-140PEY1E8 P153
T2		S-50PT2E5A x2 U-100PEY1E8 P161	S-60PT2E5A x2 U-125PEY1E8 P162	S-71PT2E5A x2 U-140PEY1E8 P163	S-100PT2E5A U-100PEY1E8 P164	S-125PT2E5A U-125PEY1E8 P165	S-140PT2E5A U-140PEY1E8 P166
K1		S-50PK1E5A x2 U-100PEY1E8 P173	S-60PK1E5A x2 U-125PEY1E8 P174	S-71PK1E5A x2 U-140PEY1E8 P175	S-100PK1E5A U-100PEY1E8 P176		
F1		S-50PF1E5A x2 U-100PEY1E8 P184	S-60PF1E5A x2 U-125PEY1E8 P185	S-71PF1E5A x2 U-140PEY1E8 P186	S-100PF1E5A U-100PEY1E8 P187	S-125PF1E5A U-125PEY1E8 P188	S-140PF1E5A U-140PEY1E8 P189
N1		S-50PN1E5A x2 U-100PEY1E8 P197	S-60PN1E5A x2 U-125PEY1E8 P198	S-71PN1E5A x2 U-140PEY1E8 P199	S-100PN1E5A U-100PEY1E8 P200	S-125PN1E5A U-125PEY1E8 P201	S-140PN1E5A U-140PEY1E8 P202
Y2		S-50PY2E5A x2 U-100PEY1E8 P205					

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1 Simultaneous (Twin) -Type

1-1. Unit Specifications

PE1

6. 4-Way Cassette 60x60 Type S-36PY2E5A×2 / U-71PE1E5A

INDOOR		MODEL	S-36PY2E5A ×2								
PANEL		MODEL	(CZ-KPY3A / CZ-KPY3B) ×2								
OUTDOOR		MODEL				U-71PE1E5A					
Branch pipe		MODEL				CZ-P155BK1					
PERFORMANCE TEST CONDITION			ISO5151 / EN14511 / EN14825 / EN12102								
POWER SUPPLY		ø, Hz	1ø 50Hz			1ø 50Hz					
		V	220	230	240	220	230	240	Min	Max	
C O O L I N G	CAPACITY		kW	7.1	7.1	7.1				2.5	8.0
			BTU/h	24200	24200	24200				8500	27300
	CURRENT		A	0.30 x 2			9.60	9.30	9.00	-	-
	INPUT POWER		W	40 x 2			1.985k	1.985k	1.985k	-	-
			TOTAL W				2.065k	2.065k	2.065k	450	2.650k
	ANNUAL CONSUMPTION		TOTAL kWh *4	-	-	-	-	1032.5	-	-	-
	EER/EER CLASS		TOTAL(W/W)5/("A"~"G")	-	-	-	3.44	3.44/A	3.44	5.56	3.02
	Erp *6	Pdsign	kW	-	-	-	-	7.1	-		
		SEER	(W/W)	-	-	-	-	6.2	-		
		Annual consumption	kWh	-	-	-	-	401	-		
		Class		-	-	-	-	A++	-		
	POWER FACTOR		%	-	-	-	94	93	92		
	NOISE INDOOR (H/M/L)		dB-A	36/32/26(31)*7							
			Power Level dB	51/47/41(46)*7							
	NOISE OUTDOOR (H/L)		dB-A				48/-				
		Power Level dB				65/-					
H E A T I N G	CAPACITY		kW	8.0	8.0	8.0				2.0	9.0
			BTU/h	27300	27300	27300				6800	30700
	CURRENT		A	0.30 x 2			10.0	9.70	9.40	-	-
	INPUT POWER		W	35 x 2			2.080k	2.080k	2.080k	-	-
			TOTAL W				2.150k	2.150k	2.150k	400	2.900k
	COP/COP CLASS		TOTAL(W/W)5/("A"~"G")	-	-	-	3.72	3.72/A	3.72	5.00	3.10
	Erp *6	Pdsign	kW	-	-	-	-	7.1	-		
		Tbivalen	°C	-	-	-	-	-7	-		
		SCOP	(W/W)	-	-	-	-	3.8	-		
		Annual consumption	kWh	-	-	-	-	2616	-		
			Class	-	-	-	-	A	-		
	POWER FACTOR		%	-	-	-	95	93	92		
	NOISE INDOOR (H/M/L)		dB-A	36/32/26(31)*7							
			Power Level dB	51/47/41(46)*7							
	NOISE OUTDOOR (H/L)		dB-A				50/-				
		Power Level dB				67/-					
EXTRA LOW TEMP		Total CAPACITY(kW)/INPUT POWER(W)/COP									
		-									
MAX CURRENT(A)/MAX INPUT POWER(W)		0.35/50 x 2			18.0/3.80k			18.0/3.93k	18.0/4.06k		
STARTING CURRENT(A)/COMP OUTPUT(W)		-	-	-	10.0/2.0k			9.70/2.0k	9.40/2.0k		
NETWORK IMPEDANCE (ΩMAX.)		-			-			-			
FM OUTPUT (W)		40 x 2			90						
MOISTURE REMOVAL VOLUME		L/h(Pt/h)	4.2	(2.1×2)	(8.8)	-					
I/D AIR FLOW	COOL	m³/min (ft³/min)	9.7×2/8.0×2/6.0×2*7 (343)×2/(283)×2/(212)×2								
	HEAT	m³/min (ft³/min)	9.9×2/8.2×2/6.0×2*7 (350)×2/(290)×2/(212)×2								
O/D AIR FLOW	COOL	m³/min (ft³/min)				60			(2119)		
	HEAT	m³/min (ft³/min)				60			(2119)		
REFRIGERANT TYPE, AMOUNT g(oz)					R410A			2.35k	(82.9)		
P R O M	HEIGHT : H mm(inch)	260<265 + 23> (10-1/4)			996 (39-7/32)						
	WIDTH : W mm(inch)	575<583> (22-21/32)			940 (37-1/32)						
	DEPTH : D mm(inch)	575<583> (22-21/32)			340 (13-13/32)						
	Panel : H×W×D mm	3A:31 × 700, 3B:31 × 625 × 625									
P A I C M	HEIGHT : H mm	345 (13-19/32)			1136						
	WIDTH : W mm	691 (27-7/32)			1055						
	DEPTH : D mm	691 (27-7/32)			485						
MASS	(NET) kg(lb)	18 (40)			69 (152)						
	(GROSS) kg(lb)	23 (51)			77 (170)						
	Panel : (NET) kg(lb)	2.4 (5.3)									
LAYERS LIMIT (actually)		11 (12)			2 (3)						
Operation		Cool (DBT)	18°C ~ 32°C			-15°C ~ 46°C					
Condition		Heat (DBT)	16°C ~ 30°C			-20°C ~ 24°C					
P I P I N G	PIPE DIAMETER mm (inch)		(Liquid)ø6.35(1/4) (Gas)ø12.7(1/2)			(Liquid)ø9.52(3/8) (Gas)ø15.88(5/8)					
	CONNECT METHOD, STD LENGTH m (ft)		flared type, 5.0 (16.4)			flared type, 5.0 (16.4)					
	PIPE LENGTH RANGE m (ft)		5 ~ 50 (16.4 ~ 164.0)								
	I/D&O/D HEIGHT DIFFERENCE m (ft)		15(OD located lower)/30(OD located higher)			(49.2/98.4)					
	ADD GAS AMOUNT g/m (oz/ft)		50 (0.538)								
PIPE LENGTH FOR ADDITIONAL GAS m (ft)		30 (98.4)									

*1: In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.

*2: If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.

*3: Network Impedance shall be applicable for EUROPE and CHINA models.

*4: The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.

*5: EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.

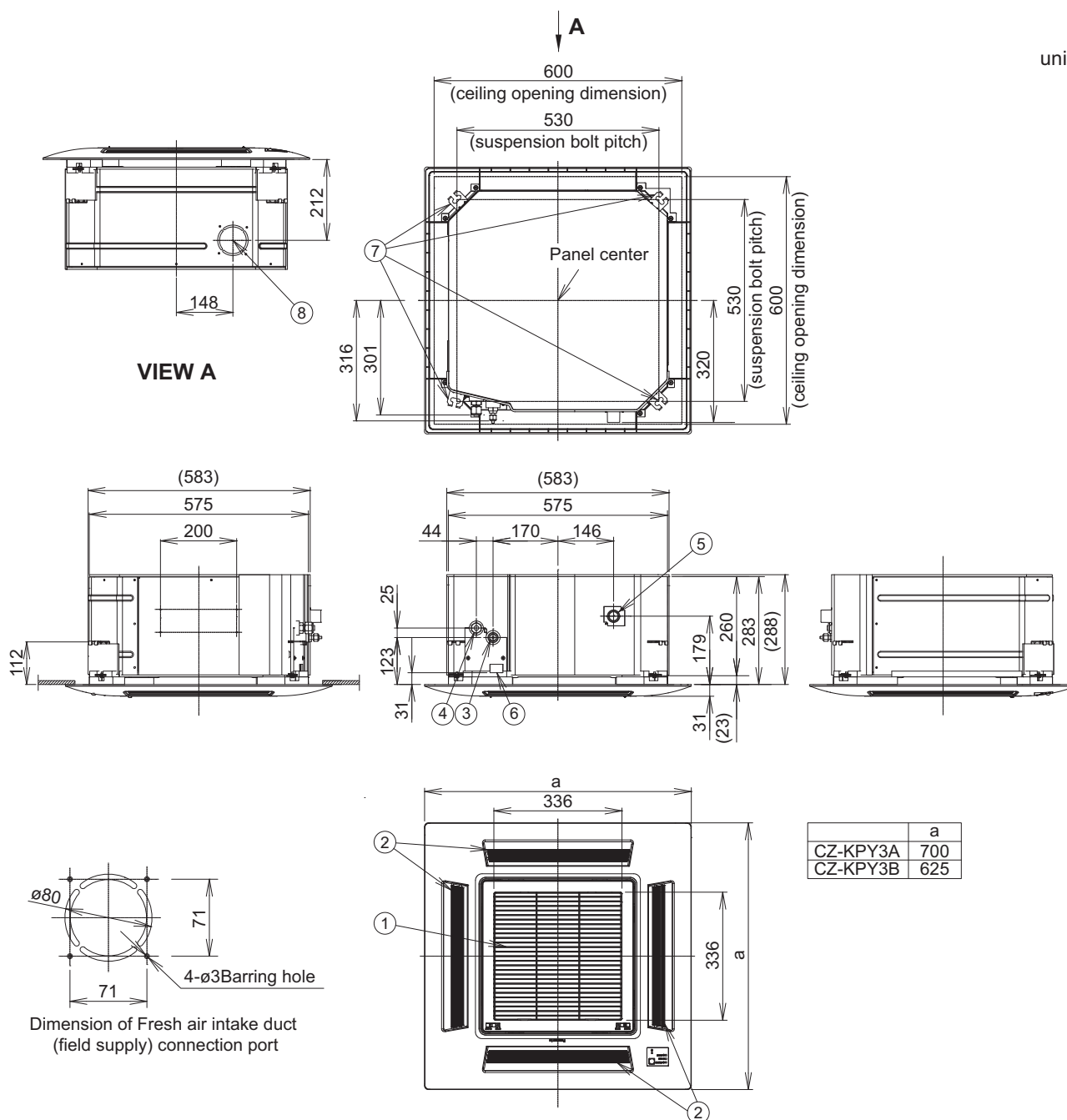
*6: SEER and SCOP classification is at 230V(400V) only in accordance with EN-14825. For heating, SCOP indicates the value of only Average heating season, Other fiche data indicates in an attached sheet.

*7: Noise and air flow rate of L are indicated by the values at FAN mode. (): Normal operation Cooling/Heating noise value. Normal operation Cooling/Heating air flow rate are 7.6 (m³/min).

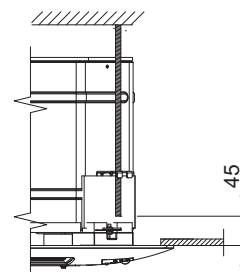
1-2. Dimensional Data

(A) Indoor Units: S-36PY2E5A, S-45PY2E5A, S-50PY2E5A

unit: mm



①	Air intake grille
②	Air outlet
③	Refrigerant piping (liquid pipe) ø6.35 (flared)
④	Refrigerant piping (gas pipe) ø12.7 (flared)
⑤	Drain tube connection port VP25 (outer ø32)
⑥	Power supply entry
⑦	Suspension bolt hole (4-11 x 26 slot)
⑧	Fresh air intake duct connection port (ø80)



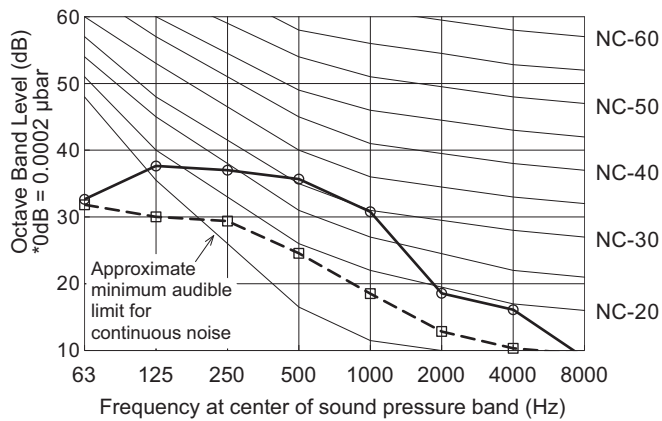
Adjust the suspension bolt length so that the gap from the lower ceiling surface becomes 45mm or more, as shown in the figure at right.
If the suspension bolts is too long, it will contact the ceiling panel and the unit cannot be installed.

1-6. Noise Criterion Curves

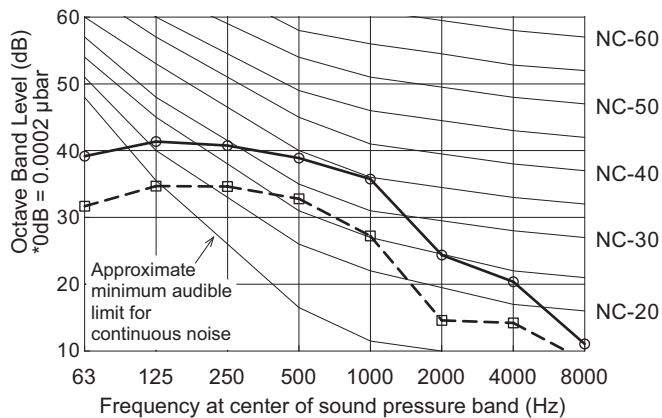
(A) Indoor Units

4-Way Cassette 60×60 Type

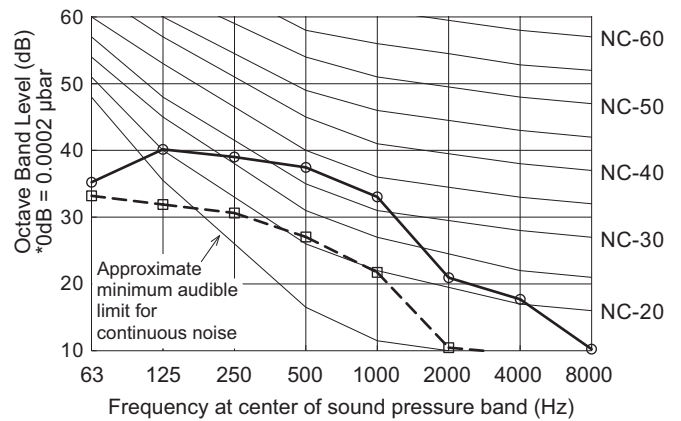
MODEL	: S-36PY2E5A
SOUND LEVEL	: High 36 dB(A)
	: Low 26 dB(A)
CONDITION	: Under the unit 1.5m
SOURCE	: 220-230-240V, 1 phase, 50Hz



MODEL	: S-56PY2E5A
SOUND LEVEL	: High 40 dB(A)
	: Low 33 dB(A)
CONDITION	: Under the unit 1.5m
SOURCE	: 220-230-240V, 1 phase, 50Hz



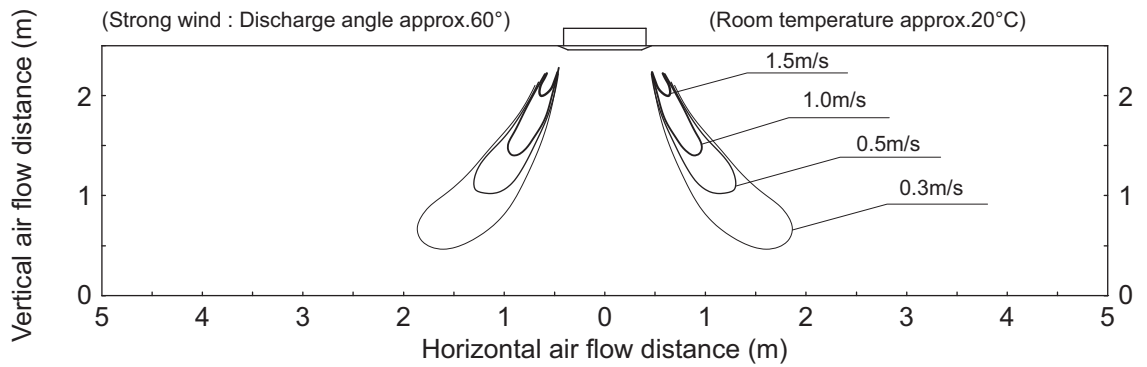
MODEL	: S-45PY2E5A
SOUND LEVEL	: High 38 dB(A)
	: Low 28 dB(A)
CONDITION	: Under the unit 1.5m
SOURCE	: 220-230-240V, 1 phase, 50Hz



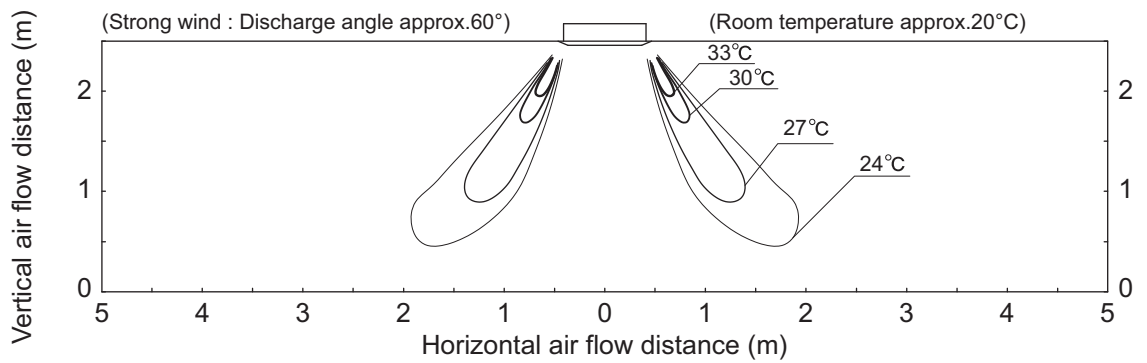
4-Way Cassette 60 x 60 (Type Y2)

S-36MY2E5A

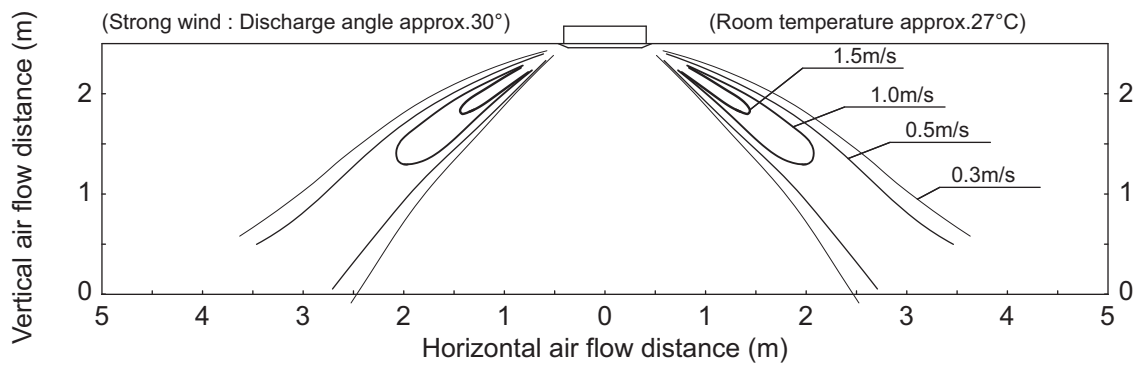
Heating : Distribution of wind velocity



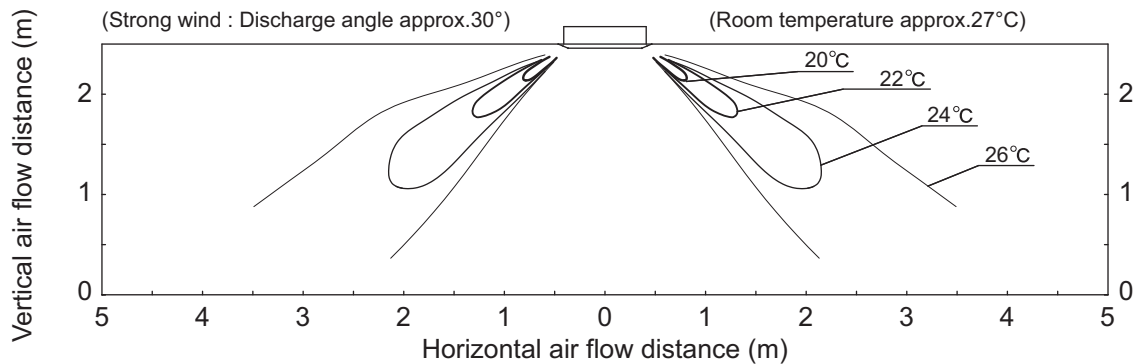
Heating : Distribution of temperature



Cooling : Distribution of wind velocity



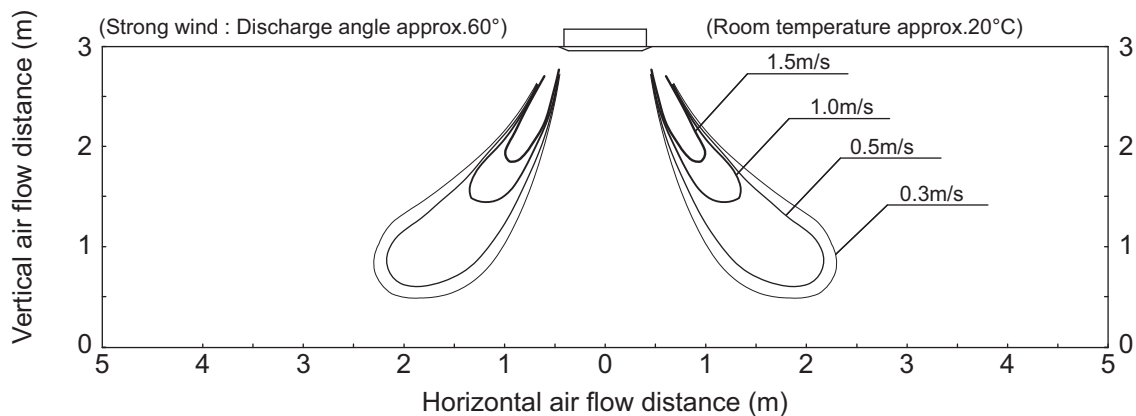
Cooling : Distribution of temperature



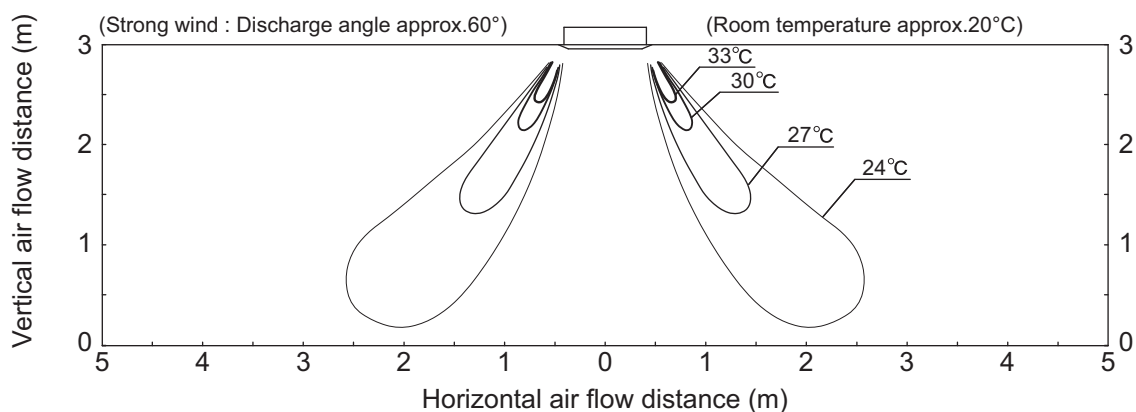
4-Way Cassette 60 x 60 (Type Y2)

S-45PY2E5A / 50PY2E5A

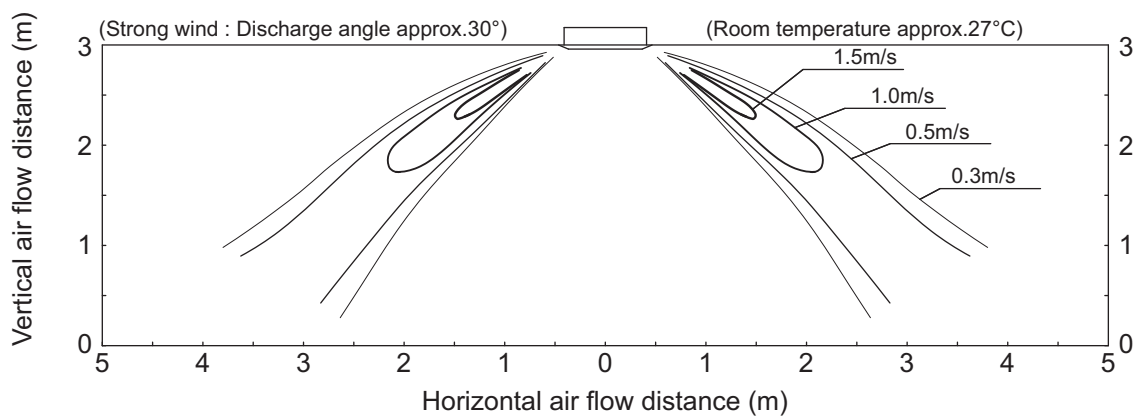
Heating : Distribution of wind velocity



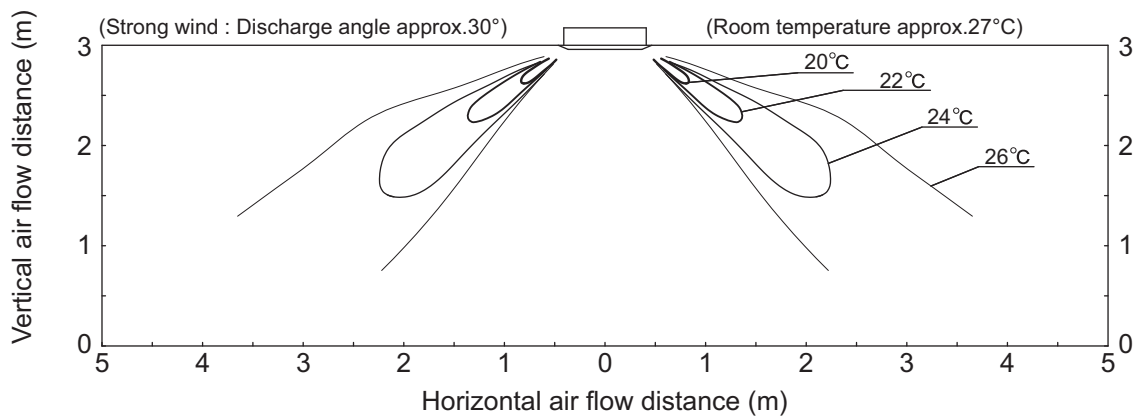
Heating : Distribution of temperature



Cooling : Distribution of wind velocity



Cooling : Distribution of temperature



1-9. Fresh Air Intake

1-9-1. Precautions Regarding External Air Intake

(1) Ventilation Load

Ensure that the design of the air-conditioner takes air-conditioning loads into consideration when external air intake is involved.

(2) Restrictions on External Air Intake

Ensure that the design conforms to the restrictions on air intake volume stipulated in accordance with the model of the indoor unit and the intake method. Consideration must also be taken to mixed air content listed in (3) below without fail.

- * If the air intake volume does not satisfy the required ventilation volume, air must be fed into the room separately with the use of a total heat exchanger or a fresh air processing air-conditioner, etc.

(3) Mixed Air

The amount of external air intake must be set within the scope of the unit's usage conditions when external air and internal air is mixed together. This is especially important in the following cases, in which it is necessary to either feed external air into the room after it has been processed or reduce the amount of external air that is fed in.

- ① When the external dew-point temperature is greater than the dry-bulb temperature of the air sucked into the unit
Ensure that processing is performed so that the external dew-point temperature is lower than the temperature of the air sucked into the unit to prevent the risk of condensation building up.
- ② In the case of low external temperatures
There are cases in which the temperature of mixed air is lower than the operating range of the unit if excessive amounts of external air intake are used when the external temperature is low.
This problem is to be solved by either feeding external air into the room after it has been processed or reducing the amount of external air that is fed in.
- ③ When used in combination with humidifiers
External air must always be processed when the external air temperature reaches freezing point to prevent the risk of the humidifier freezing.

(4) Arranging Ducts and Filters in the Field

External air intake ducting must be arranged in the field.
External air filters must also be installed without fail in order to prevent the intake of dust and grit.

(5) Thermal Insulation for Ducts

Ensure that all external air intake ducting is heat-insulated without fail. Failure to observe this may result in the build-up of condensation.

(6) External Air Intake Coupling

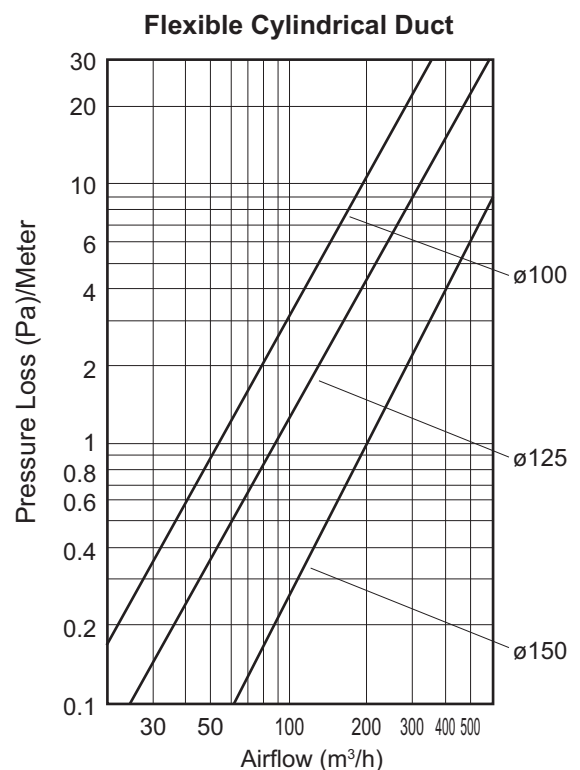
Ensure that the design for external air intake is coupled with the fan blower operations of the indoor unit.
There are cases in which the dust that accumulates in the filter is blown into the room if the external air is fed from the filter. There are also cases in which the noise of external air being fed into the room can be heard from the indoor unit if external air is forcibly fed when the booster fan or other components on the indoor unit are not operating.

(7) Booster Fan Selection

Select the booster fan in accordance with the resistance of the external air intake duct (diagram on the pressure loss characteristics of the air flow volume for flexible cylindrical ducts) and the resistance prevalent inside the unit (external air intake volume & resistance within unit / operation noise characteristics).

(8) Attaching the External Air Intake Flange

Regarding the installation direction of the external air intake duct, refer to the Installation Instructions provided with the external air intake duct.



Air Flow Volume for Flexible Cylindrical Duct-Pressure Loss

1-10. Electrical Wiring

■ General Precautions on Wiring

- (1) Before wiring, confirm the rated voltage of the unit as shown on its nameplate, then carry out the wiring closely following the wiring diagram.
- (2) Provide a power outlet to be used exclusively for each unit and a circuit breaker for overcurrent protection should be provided in the exclusive line.
- (3) To prevent possible hazards from insulation failure, the unit must be grounded.
- (4) Each wiring connection must be done in accordance with the wiring system diagram. Wrong wiring may cause the unit to misoperate or become damaged.
- (5) Do not allow wiring to touch the refrigerant tubing, compressor, or any moving parts of the fan.
- (6) Unauthorized changes in the internal wiring can be very dangerous. The manufacturer will accept no responsibility for any damage or misoperation that occurs as a result of such unauthorized changes.
- (7) Regulations on wire diameters differ from locality to locality. For field wiring rules, please refer to your LOCAL ELECTRICAL CODES before beginning.
You must ensure that installation complies with all relevant rules and regulations.
- (8) To prevent malfunction of the air conditioner caused by electrical noise, care must be taken when wiring as follows:
 - The remote control wiring and the inter-unit control wiring should be wired apart from the inter-unit power wiring.
 - Use shielded wires for inter-unit control wiring between units and ground the shield on both sides.
- (9) If the power supply cord of this appliance is damaged, it must be replaced by a repair shop designated by the manufacturer, because special-purpose tools are required.



CAUTION

Check local electrical codes and regulations before wiring.
Also, check any specified instruction or limitations.

■ Recommended Wire Length and Wire Diameter for Power Supply System

Indoor unit

Type	(B) Power supply 2.5 mm ²	Time delay fuse or circuit capacity
U1	Max. 130 m	10-16 A
Y2	Max. 130 m	10-16 A

Indoor unit

Type	(B) Power supply 2.5 mm ²	Time delay fuse or circuit capacity
K1	Max. 150 m	10A
F1	Max. 130 m	10A
T2, N1	Max. 130 m	10-16A

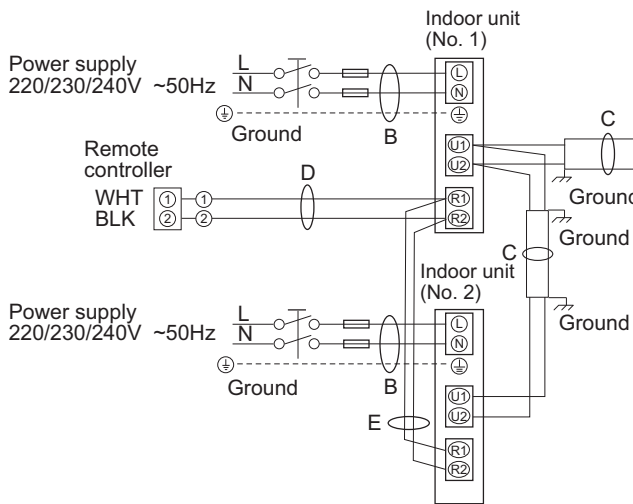
Control wiring

(C) Inter-unit (between outdoor and indoor units) control wiring	(D) Remote control wiring	(E) Control wiring for group control
0.75 mm ² (AWG #18) Use shielded wiring*	0.75 mm ² (AWG #18)	0.75 mm ² (AWG #18)
Max. 1,000 m	Max. 500 m	Max. 200 m (Total)

NOTE

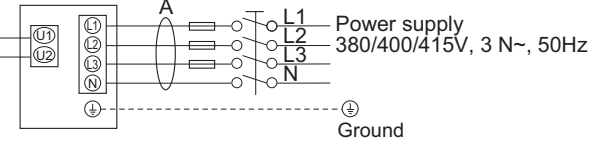
* With ring-type wire terminal.

■ Wiring System Diagrams



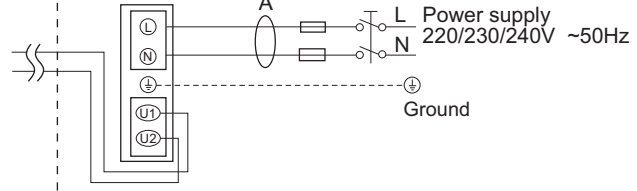
* 3-phase model connections

Outdoor unit (3-phase) INV unit



* Single-phase model connections

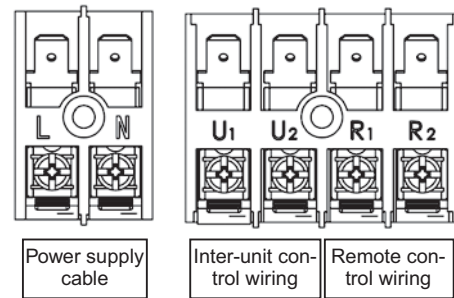
Outdoor unit (single-phase) INV unit



NOTE

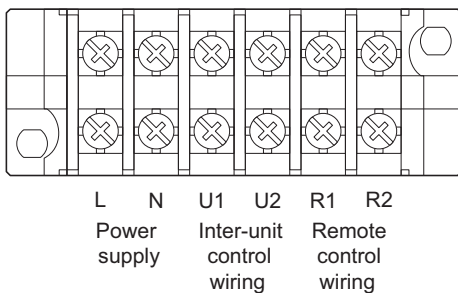
- (1) Refer to "Recommended Wire Length and Wire Diameter for Power Supply System" for the explanation of "A", "B", "C", "D" and "E" in the above diagram.
- (2) The basic connection diagram of the indoor unit shows the terminal boards, so the terminal boards in your equipment may differ from the diagram.
- (3) Refrigerant Circuit (R.C.) address should be set before turning the power on.
- (4) Regarding R.C. address setting, refer to the installation instructions supplied with the remote controller (optional). Auto address setting can be executed by remote controller automatically. Refer to the installation instructions supplied with the remote controller (optional).

Terminal Board



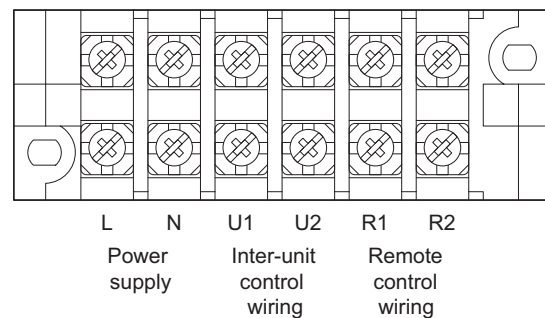
Type Y2

6P terminal board



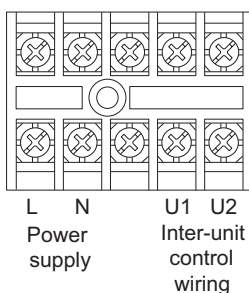
Type U1

6P terminal board



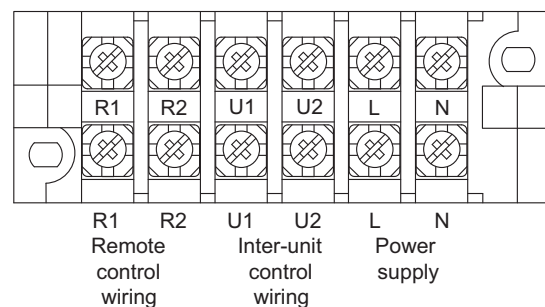
Type T2, F1

5P terminal board



Type K1

6P terminal board

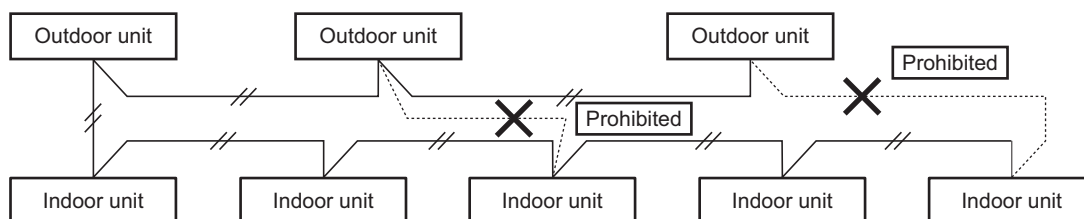


Type N1

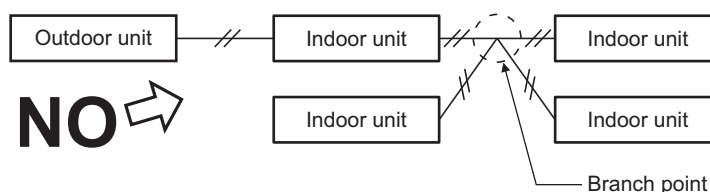


CAUTION

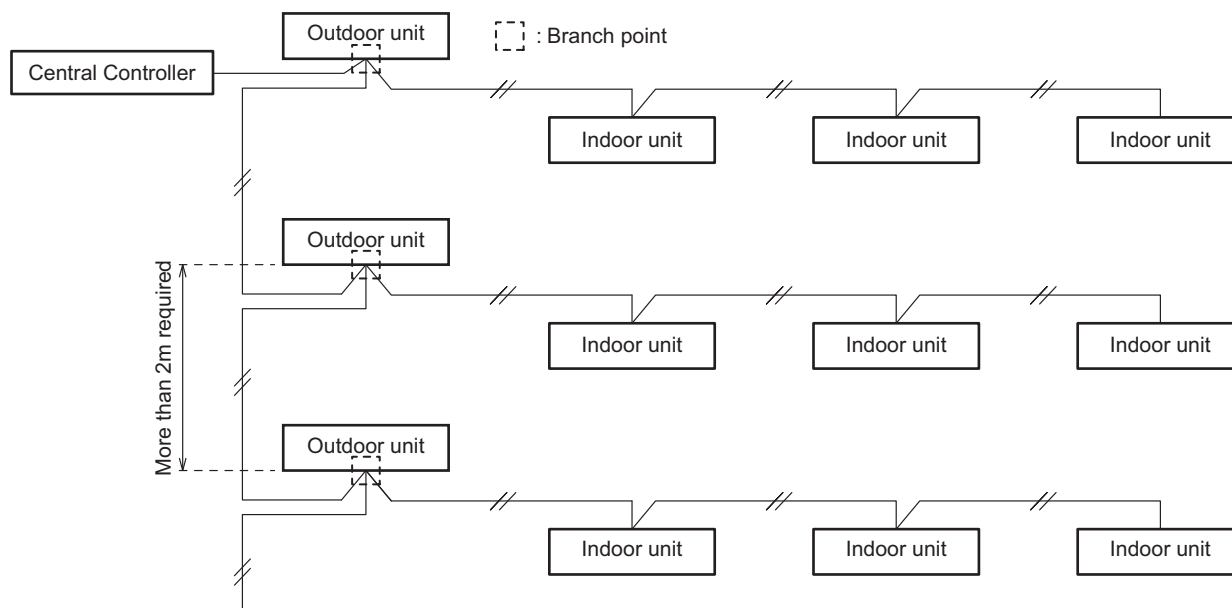
- (1) When linking the outdoor units in a network, disconnect the terminal extended from the short plug from all outdoor units except any one of the outdoor units.
(When shipping: In shorted condition.)
For a system without link (no wiring connection between outdoor units), do not remove the short plug.
- (2) Do not install the inter-unit control wiring in a way that forms a loop.



- (3) Do not install inter-unit control wiring such as star branch wiring. Star branch wiring causes mis-address setting.

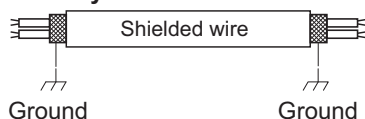


- (4) If branching the inter-unit control wiring, the number of branch points should be 16 or fewer.



- (5) Use shielded wires for inter-unit control wiring (c) and ground the shield on both sides, otherwise misoperation from noise may occur.

Connect wiring as shown in Section "■ Wiring System Diagrams".



- (6) • Connecting cable between indoor unit and outdoor unit shall be approved polychloroprene sheathed 5 or 3 *1.5 mm² flexible cord. Type designation 60245 IEC 57 (H05RN-F, GP85PCP etc.) or heavier cord.
- Use the standard power supply cables for Europe (such as H05RN-F or H07RN-F which conform to CENELEC (HAR) rating specifications) or use the cables based on IEC standard. (60245 IEC57, 60245 IEC66)



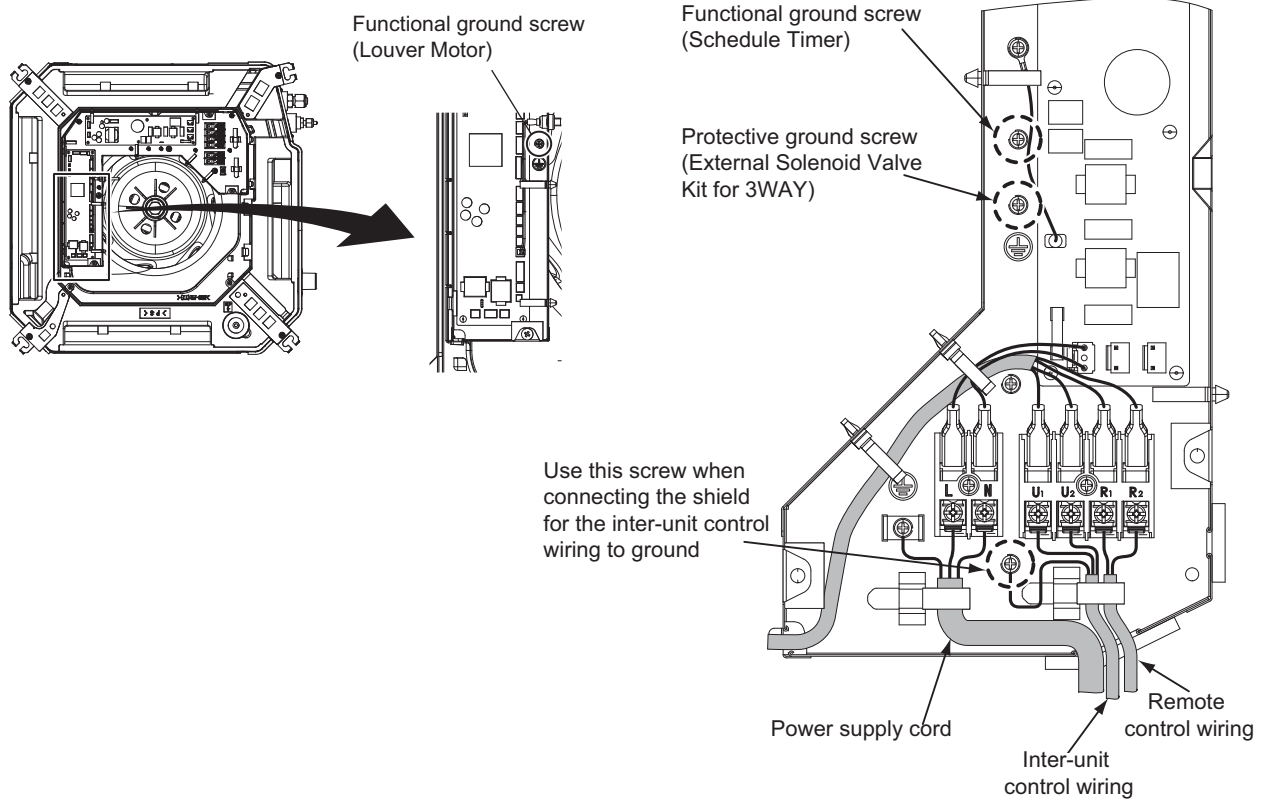
WARNING

Loose wiring may cause the terminal to overheat or result in unit malfunction. A fire hazard may also occur. Therefore, ensure that all wiring is tightly connected.

When connecting each power wire to the terminal, follow the instructions on "How to connect wiring to the terminal" and fasten the wire securely with the terminal screw.

■ Wiring samples

Type Y2



1-13. Capacity Table

1. Cooling Capacity Performance Data

• Combination of Single Unit

4-Way Cassette 60×60 Type

TC :Cooling Capacity

SHC :Sensible Heat Capacity

IPT :Cooling Power Consumption

unit : kW

Model	Power Source	Ambient Return Air		Outdoor air intake temp(°C D.B.)														
				25°C			30°C			35°C			40°C			46°C		
		DB	WB	TC	SHC	IPT	TC	SHC	IPT	TC	SHC	IPT	TC	SHC	IPT	TC	SHC	IPT
S-50PY2E5A U-50PE1E5	220V 230V 240V 50Hz 1 phase	23	16	5.9	4.1	1.97	5.6	3.9	2.14	5.2	3.7	2.35	5.0	3.6	2.61	3.9	3.1	1.71
			19	6.4	3.3	2.05	6.0	3.1	2.23	5.6	2.9	2.45	5.4	2.8	2.72	4.2	2.3	1.79
			22	7.0	2.5	2.13	6.5	2.3	2.31	6.1	2.1	2.55	5.9	2.0	2.83	4.6	1.6	1.86
		25	16	5.9	4.5	1.97	5.6	4.4	2.14	5.2	4.2	2.35	5.0	4.1	2.61	3.9	3.6	1.71
			19	6.4	3.7	2.05	6.0	3.5	2.23	5.6	3.4	2.45	5.4	3.3	2.72	4.2	2.8	1.79
			22	7.0	2.9	2.13	6.5	2.7	2.31	6.1	2.6	2.55	5.9	2.5	2.83	4.6	2.0	1.86
		27	16	5.9	5.0	1.97	5.6	4.9	2.14	5.2	4.7	2.35	5.0	4.6	2.61	3.9	3.9	1.71
			19	6.4	4.2	2.05	6.0	4.0	2.23	5.6	3.8	2.45	5.4	3.8	2.72	4.2	3.3	1.79
			22	7.0	3.4	2.13	6.5	3.2	2.31	6.1	3.1	2.55	5.9	3.0	2.83	4.6	2.5	1.86
		29	16	5.9	5.5	1.97	5.6	5.4	2.14	5.2	5.2	2.35	5.0	5.0	2.61	3.9	3.9	1.71
			19	6.4	4.7	2.05	6.0	4.5	2.23	5.6	4.3	2.45	5.4	4.3	2.72	4.2	3.7	1.79
			22	7.0	3.9	2.13	6.5	3.7	2.31	6.1	3.5	2.55	5.9	3.5	2.83	4.6	3.0	1.86
		32	16	5.9	5.5	1.97	5.6	5.4	2.14	5.2	5.2	2.35	5.0	5.0	2.61	3.9	3.9	1.71
			19	6.4	4.7	2.05	6.0	4.5	2.23	5.6	4.3	2.45	5.4	4.3	2.72	4.2	3.7	1.79
			22	7.0	3.9	2.13	6.5	3.7	2.31	6.1	3.5	2.55	5.9	3.5	2.83	4.6	3.0	1.86

1-13. Capacity Table

1. Cooling Capacity Performance Data

• Combination of Multiple Unit

4-Way Cassette 60×60 Type

TC :Cooling Capacity

SHC :Sensible Heat Capacity

IPT :Cooling Power Consumption

unit : kW

Model	Power Source	Outdoor air intake temp(°C D.B.)																
		Ambient Return Air		25°C			30°C			35°C			40°C			46°C		
		DB	WB	TC	SHC	IPT	TC	SHC	IPT	TC	SHC	IPT	TC	SHC	IPT	TC	SHC	IPT
S-50PY2E5A×3 U-140PE1E5A (U-140PE1E8A)	220V 230V 240V 50Hz 1 phase (3 phase)	23	16	14.1	10.4	4.87	14.1	10.5	5.23	13.6	10.3	5.56	12.6	9.8	5.79	9.2	8.3	4.73
			19	15.1	8.0	5.08	15.1	8.1	5.46	14.5	7.8	5.80	13.5	7.4	6.04	9.8	5.9	4.93
			22	16.5	5.6	5.25	16.5	5.6	5.64	15.9	5.4	6.00	14.8	5.0	6.25	10.8	3.7	5.10
		25	16	14.6	12.4	4.95	14.6	12.4	5.32	14.0	12.0	5.66	13.1	11.8	5.88	9.5	9.5	4.81
			19	15.6	9.8	5.16	15.6	9.9	5.55	15.0	9.5	5.90	13.9	9.2	6.14	10.2	7.6	5.02
			22	17.1	7.4	5.34	17.1	7.5	5.74	16.4	7.1	6.11	15.3	6.8	6.35	11.2	5.3	5.19
		27	16	15.1	14.3	5.03	15.1	14.4	5.41	14.5	14.0	5.75	13.5	13.5	5.98	9.9	9.9	4.89
			19	16.1	11.8	5.25	16.1	11.8	5.64	15.5	11.4	6.00	14.4	11.2	6.24	10.5	9.4	5.10
			22	17.7	9.3	5.43	17.7	9.4	5.83	17.0	9.0	6.21	15.8	8.7	6.46	11.5	7.0	5.28
		29	16	15.3	15.3	5.05	15.3	15.3	5.42	14.7	14.7	5.77	13.7	13.7	6.00	10.0	10.0	4.90
			19	16.4	13.6	5.26	16.4	13.6	5.65	15.7	13.2	6.01	14.6	13.0	6.26	10.7	10.7	5.11
			22	17.9	11.1	5.44	17.9	11.2	5.85	17.2	10.8	6.22	16.0	10.5	6.47	11.7	8.7	5.29
		32	16	15.5	15.5	5.06	15.5	15.5	5.43	14.9	14.9	5.78	13.9	13.9	6.01	10.2	10.2	4.91
			19	16.6	13.8	5.28	16.6	13.8	5.67	16.0	13.5	6.03	14.8	13.2	6.27	10.9	10.9	5.13
			22	18.2	11.3	5.46	18.2	11.4	5.86	17.5	11.0	6.24	16.3	10.7	6.49	11.9	8.9	5.30

1-13. Capacity Table

1. Cooling Capacity Performance Data

• Combination of Multiple Unit

4-Way Cassette 60×60 Type

TC :Cooling Capacity

SHC :Sensible Heat Capacity

IPT :Cooling Power Consumption

unit : kW

			Outdoor air intake temp(°C D.B.)															
Model	Power Source	Ambient Return Air	25°C				30°C			35°C			40°C			43°C		
		DB	WB	TC	SHC	IPT	TC	SHC	IPT	TC	SHC	IPT	TC	SHC	IPT	TC	SHC	IPT
S-36PY2E5Ax2 U-71PEY1E5	220V 230V 240V 50Hz 1phase	23	16	7.9	5.7	2.34	7.5	5.5	2.56	7.2	5.4	2.78	6.1	4.6	2.45	5.5	4.2	2.23
			19	8.5	4.4	2.44	8.1	4.2	2.67	7.7	4.1	2.90	6.5	3.5	2.55	5.9	3.2	2.32
			22	9.2	3.2	2.53	8.8	3.0	2.77	8.4	2.8	3.02	7.1	2.5	2.65	6.4	2.2	2.42
		25	16	7.9	6.5	2.34	7.5	6.2	2.56	7.2	6.0	2.78	6.1	5.2	2.45	5.5	4.9	2.23
			19	8.5	5.2	2.44	8.1	5.0	2.67	7.7	4.8	2.90	6.5	4.2	2.55	5.9	3.9	2.32
			22	9.2	3.9	2.53	8.8	3.8	2.77	8.4	3.6	3.02	7.1	3.1	2.65	6.4	2.8	2.42
		27	16	7.9	7.2	2.34	7.5	7.0	2.56	7.2	6.8	2.78	6.1	5.9	2.45	5.5	5.4	2.23
			19	8.5	6.0	2.44	8.1	5.8	2.67	7.7	5.5	2.90	6.5	4.9	2.55	5.9	4.5	2.32
			22	9.2	4.7	2.53	8.8	4.6	2.77	8.4	4.4	3.02	7.1	3.8	2.65	6.4	3.5	2.42
		29	16	7.9	7.9	2.34	7.5	7.5	2.56	7.2	7.2	2.78	6.1	6.1	2.45	5.5	5.5	2.23
			19	8.5	6.8	2.44	8.1	6.5	2.67	7.7	6.3	2.90	6.5	5.4	2.55	5.9	5.2	2.32
			22	9.2	5.5	2.53	8.8	5.4	2.77	8.4	5.2	3.02	7.1	4.5	2.65	6.4	4.2	2.42
		32	16	7.9	7.9	2.34	7.5	7.5	2.56	7.2	7.2	2.78	6.1	6.1	2.45	5.5	5.5	2.23
			19	8.5	6.8	2.44	8.1	6.5	2.67	7.7	6.3	2.90	6.5	5.4	2.55	5.9	5.2	2.32
			22	9.2	5.5	2.53	8.8	5.4	2.77	8.4	5.2	3.02	7.1	4.5	2.65	6.4	4.2	2.42
S-50PY2E5Ax2 U-100PEY1E5 (U-100PEY1E8)	220V 230V 240V 50Hz 1phase (3phase)	23	16	10.6	7.7	3.44	10.1	7.3	3.70	9.6	7.0	3.97	8.2	6.3	3.77	5.9	4.8	2.60
			19	11.4	6.0	3.59	10.8	5.7	3.86	10.3	5.5	4.14	8.7	4.7	3.93	6.3	3.6	2.71
			22	12.4	4.3	3.71	11.9	4.1	4.00	11.3	3.9	4.28	9.6	3.2	4.07	6.9	2.3	2.81
		25	16	11.0	9.1	3.49	10.5	8.7	3.77	10.0	8.3	4.04	8.5	7.4	3.84	6.1	5.7	2.64
			19	11.8	7.3	3.65	11.2	6.9	3.93	10.6	6.6	4.21	9.0	5.8	4.00	6.5	4.4	2.76
			22	12.9	5.5	3.77	12.3	5.3	4.06	11.7	5.0	4.36	9.9	4.4	4.14	7.1	3.2	2.85
		27	16	11.4	10.5	3.55	10.8	10.0	3.83	10.3	9.5	4.10	8.7	8.6	3.90	6.3	6.3	2.69
			19	12.2	8.7	3.71	11.6	8.3	3.99	11.0	7.9	4.28	9.3	7.0	4.07	6.7	5.4	2.80
			22	13.3	7.0	3.83	12.7	6.6	4.13	12.1	6.3	4.43	10.2	5.5	4.21	7.3	4.1	2.90
		29	16	11.5	11.5	3.56	11.0	11.0	3.84	10.5	10.5	4.11	8.9	8.9	3.91	6.4	6.4	2.69
			19	12.3	9.9	3.72	11.7	9.4	4.00	11.2	9.1	4.29	9.5	8.1	4.08	6.8	6.3	2.81
			22	13.5	8.2	3.84	12.9	7.8	4.14	12.2	7.4	4.44	10.4	6.6	4.22	7.5	5.1	2.91
		32	16	11.7	11.7	3.57	11.2	11.2	3.85	10.6	10.6	4.12	9.0	9.0	3.92	6.5	6.5	2.70
			19	12.5	10.0	3.72	11.9	9.6	4.01	11.3	9.2	4.30	9.6	8.2	4.09	6.9	6.4	2.82
			22	13.7	8.3	3.85	13.1	8.0	4.15	12.4	7.6	4.45	10.5	6.6	4.23	7.6	5.2	2.91

1-13. Capacity Table

2. Heating Capacity Performance Data

TC :Cooling Capacity

IPT :Cooling Power Consumption

• Combination of Single Unit

4-Way Cassette 60×60 Type

unit : kW

Model	Power Source	Ambient Return Air	Outdoor air intake temp(°C W.B.)									
			-5°C		0°C		6°C		10°C		15°C	
			TC	IPT	TC	IPT	TC	IPT	TC	IPT	TC	IPT
S-50PY2E5A U-50PE1E5	220V 230V 240V 50Hz 1 phase	16	4.4	2.00	4.7	2.06	6.5	2.44	8.0	2.92	8.5	2.80
		20	4.3	2.11	4.6	2.17	6.3	2.57	7.8	3.08	8.3	2.95
		24	4.1	2.17	4.4	2.23	6.0	2.65	7.5	3.17	7.9	3.04

1-13. Capacity Table

2. Heating Capacity Performance Data

TC :Cooling Capacity

IPT :Cooling Power Consumption

• Combination of Multiple Unit

4-Way Cassette 60×60 Type

unit : kW

Model	Power Source	Ambient Return Air	Outdoor air intake temp(°C W.B.)									
			-5°C		0°C		6°C		10°C		15°C	
			TC	IPT	TC	IPT	TC	IPT	TC	IPT	TC	IPT
S-36PY2E5A×2 U-71PE1E5 (U-71PE1E8)	220V 230V 240V 50Hz 1 phase (3 phase)	DB	TC	IPT	TC	IPT	TC	IPT	TC	IPT	TC	IPT
		16	8.2	2.88	8.5	2.90	9.7	2.86	9.9	2.67	9.9	2.47
		20	7.8	2.96	8.1	2.98	9.0	2.90	9.0	2.72	9.0	2.49
S-36PY2E5A×3 U-100PE1E5 (U-100PE1E8)	220V 230V 240V 50Hz 1 phase (3 phase)	16	15.1	4.97	15.1	4.77	15.1	4.16	15.1	3.66	15.1	3.10
		20	14.0	5.26	14.0	5.05	14.0	4.40	14.0	3.87	14.0	3.28
		24	13.1	5.34	13.1	5.13	13.1	4.47	13.1	3.94	13.1	3.33
S-50PY2E5A×2 U-100PE1E5 (U-100PE1E8)	220V 230V 240V 50Hz 1 phase (3 phase)	16	15.1	4.97	15.1	4.77	15.1	4.16	15.1	3.66	15.1	3.10
		20	14.0	5.26	14.0	5.05	14.0	4.40	14.0	3.87	14.0	3.28
		24	13.1	5.34	13.1	5.13	13.1	4.47	13.1	3.94	13.1	3.33
S-36PY2E5A×4 U-125PE1E5 (U-125PE1E8)	220V 230V 240V 50Hz 1 phase (3 phase)	16	16.7	5.52	17.2	5.43	17.3	4.91	17.3	4.33	17.3	3.66
		20	15.5	5.84	15.9	5.74	16.0	5.20	16.0	4.58	16.0	3.87
		24	14.5	5.93	14.9	5.84	15.0	5.28	15.0	4.65	15.0	3.94
S-45PY2E5A×3 U-125PE1E5 (U-125PE1E8)	220V 230V 240V 50Hz 1 phase (3 phase)	16	16.7	5.52	17.2	5.43	17.3	4.91	17.3	4.33	17.3	3.66
		20	15.5	5.84	15.9	5.74	16.0	5.20	16.0	4.58	16.0	3.87
		24	14.5	5.93	14.9	5.84	15.0	5.28	15.0	4.65	15.0	3.94
S-50PY2E5A×3 U-140PE1E5 (U-140PE1E8)	220V 230V 240V 50Hz 1 phase (3 phase)	16	18.1	5.72	19.2	5.69	19.4	5.57	19.4	4.91	19.4	4.15
		20	16.7	6.05	17.8	6.02	18.0	5.90	18.0	5.19	18.0	4.40
		24	15.7	6.15	16.7	6.12	16.9	6.00	16.9	5.28	16.9	4.47

1-13. Capacity Table

2. Heating Capacity Performance Data

TC :Cooling Capacity

IPT :Cooling Power Consumption

• Combination of Multiple Unit

4-Way Cassette 60×60 Type

unit : kW

Model	Power Source	Ambient Return Air	Outdoor air intake temp(°C W.B.)									
			-5°C		0°C		6°C		10°C		15°C	
			TC	IPT	TC	IPT	TC	IPT	TC	IPT	TC	IPT
S-36PY2E5A×2 U-71PEY1E5	220V 230V 240V 50Hz 1 phase	DB										
		16	5.6	2.09	6.1	2.19	8.3	2.57	9.4	2.79	10.6	3.01
		20	5.5	2.20	6.0	2.31	8.1	2.70	9.1	2.93	10.2	3.17
		24	5.2	2.27	5.7	2.37	7.8	2.78	8.7	3.02	9.8	3.26
S-50PY2E5A×2 U-100PEY1E5 (U-100PEY1E8)	220V 230V 240V 50Hz 1 phase (3 phase)	16	12.0	4.68	12.5	4.23	13.4	4.04	12.5	3.07	14.0	3.21
		20	11.1	4.95	11.6	4.48	12.4	4.28	11.6	3.25	13.0	3.40
		24	10.4	5.03	10.9	4.55	11.6	4.35	10.8	3.30	12.2	3.46

3. ELECTRICAL DATA

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3-1. Indoor Units

■ 4-Way Cassette 60 × 60 Type S-36PY2E5A / S-45PY2E5A / S-50PY2E5A
Electric Wiring Diagram

