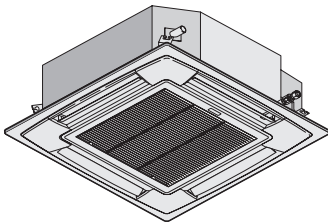
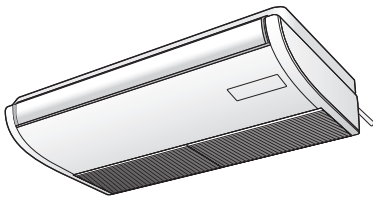


TECHNICAL DATA

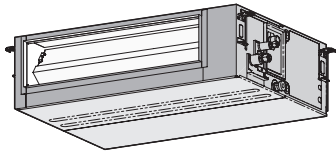
VRF SYSTEMS INDOOR UNIT



4-Way Cassette
(Type U1)



Ceiling
(Type T2)



Low Silhouette Ducted
(Type F2)

Indoor Unit

	Class	15	22	28	36	45	56	60	73	90	106	140	160
U1	4-Way Cassette		S-22MU1E5A	S-28MU1E5A	S-36MU1E5A	S-45MU1E5A	S-56MU1E5A	S-60MU1E5A	S-73MU1E5A	S-90MU1E5A	S-106MU1E5A	S-140MU1E5A	S-160MU1E5A
Y2	4-Way Cassette 60×60	S-15MY2E5A	S-22MY2E5A	S-28MY2E5A	S-36MY2E5A	S-45MY2E5A	S-56MY2E5A						
F2	Low Silhouette Ducted	S-15MF2E5A	S-22MF2E5A	S-28MF2E5A	S-36MF2E5A	S-45MF2E5A	S-56MF2E5A	S-60MF2E5A	S-73MF2E5A	S-90MF2E5A	S-106MF2E5A	S-140MF2E5A	S-160MF2E5A
T2	Ceiling				S-36MT2E5A	S-45MT2E5A	S-56MT2E5A		S-73MT2E5A		S-106MT2E5A	S-140MT2E5A	
K2	Wall Mounted	S-15MK2E5A	S-22MK2E5A	S-28MK2E5A	S-36MK2E5A								
K1	Wall Mounted					S-45MK1E5A	S-56MK1E5A		S-73MK1E5A		S-106MK1E5A		
M1	Slim Low Static Ducted	S-15MM1E5A	S-22MM1E5A	S-28MM1E5A	S-36MM1E5A	S-45MM1E5A	S-56MM1E5A						

Indoor Unit

	Class	180	224	280
E2	High Static Pressure Ducted	S-180ME2E5	S-224ME2E5	S-280ME2E5

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1. Electrical Wiring

1-1. 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.



WARNING

- (2) 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. Earth Leakage Circuit Breaker (ELCB) must be incorporated in the fixed wiring in accordance with the wiring regulations. The Earth Leakage Circuit Breaker (ELCB) must be an approved 10-16 A, having a contact separation in all poles.
- (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.

1-2. Recommended Wire Length and Wire Diameter for Power Supply System

Indoor unit

Type	(B) Power supply		Time delay fuse or circuit capacity
	Minimum 2 mm ²	2.5 mm ²	
K2	Max. 150 m	—	15 A
Y2	Max. 130 m	—	15 A
K1	—	Max. 150 m	10 – 16 A
U1	—	Max. 130 m	10 – 16 A
F2	—	Max. 130 m	10 – 16 A
T2	—	Max. 130 m	10 – 16 A
E2	—	Max. 30 m	10 – 16 A
M1	—	Max. 130 m	10 – 16 A

Control wiring

(C) Inter-unit control wiring (between outdoor and indoor units)
0.75 mm ² (AWG #18) Use shielded wiring*
Max. 1,000 m

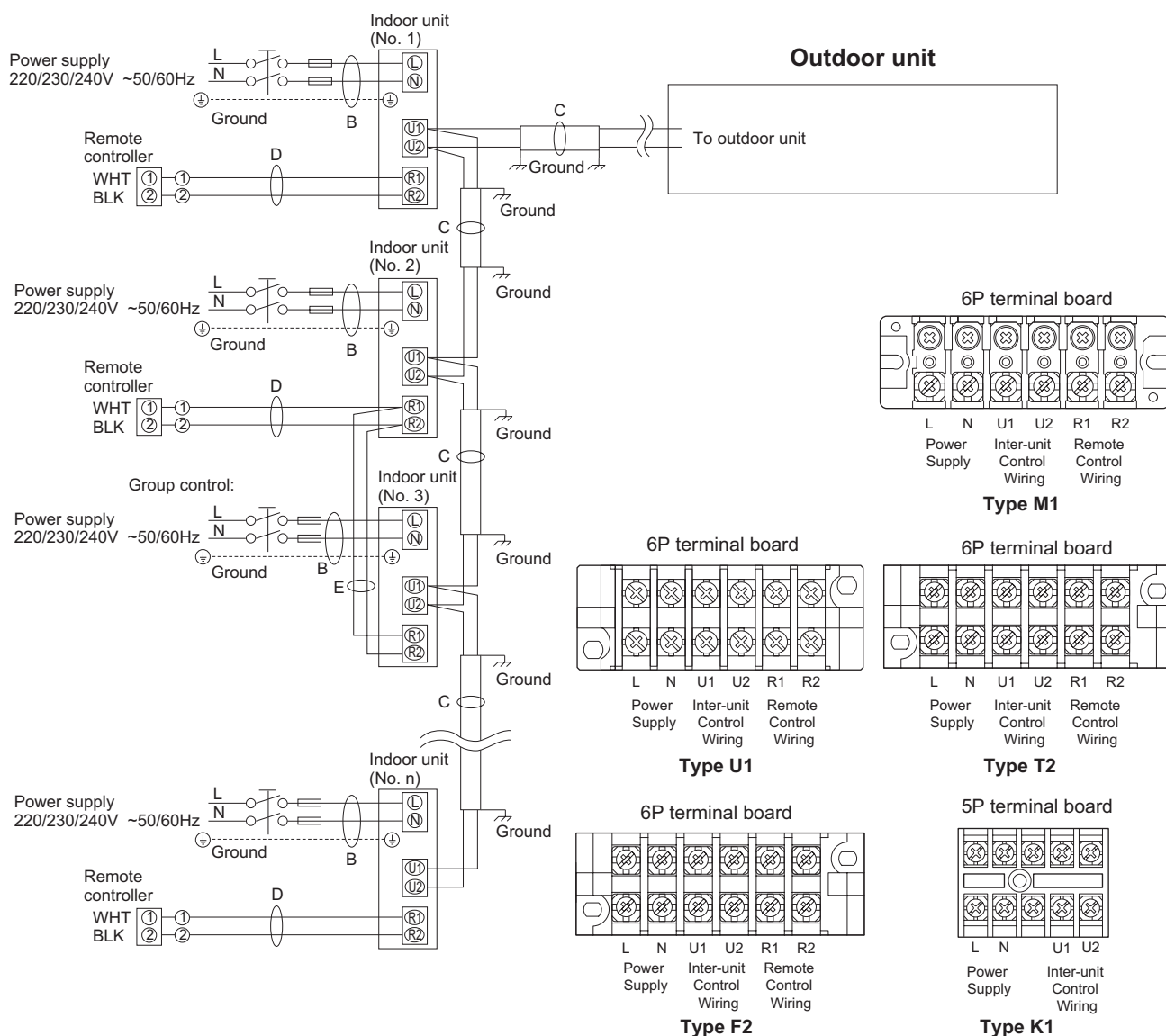
(D) Remote control wiring
0.75 mm ² (AWG #18)
Max. 500 m

NOTE * With ring-type wire terminal.

(E) Control wiring for group control
0.75 mm ² (AWG #18)
Max. 200 m (Total)

1. Electrical Wiring

1-3. Wiring System Diagrams



- (1) Refer to Section "1-2. Recommended Wire Length and Wire Diameter for Power Supply System" for the explanation of "B", "C", "D" and "E" in the above diagram.
- (2) The basic connection diagram of the indoor unit shows the 7P terminal board, 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) Address setting can be executed by remote controller automatically. Refer to Section 5.
- (5) Regarding Type E2, the power supply is 220/230/240V ~50Hz and 220/230V ~60Hz.

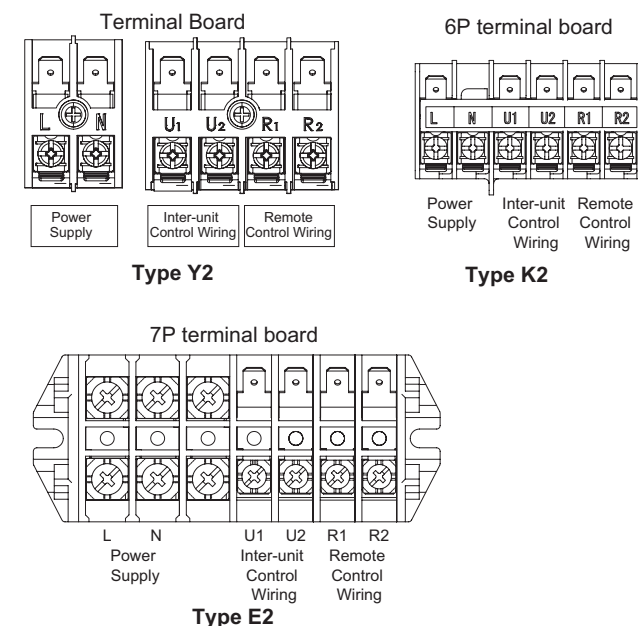


Fig. 2-1

1. Electrical Wiring



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.

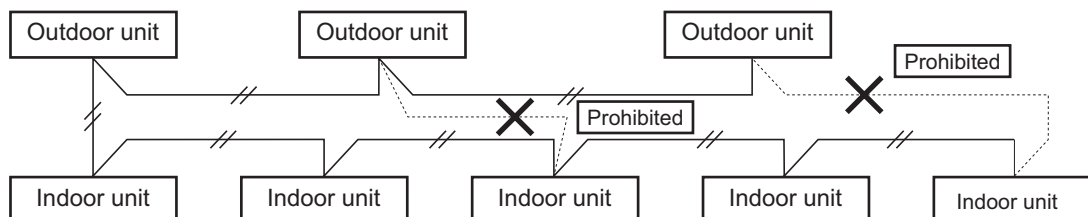


Fig. 2-2

2

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

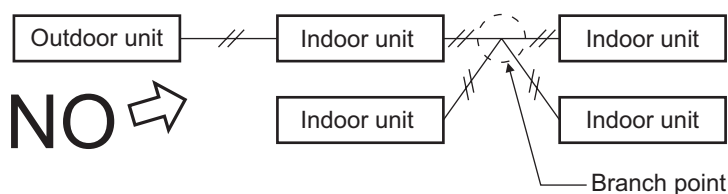


Fig. 2-3

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

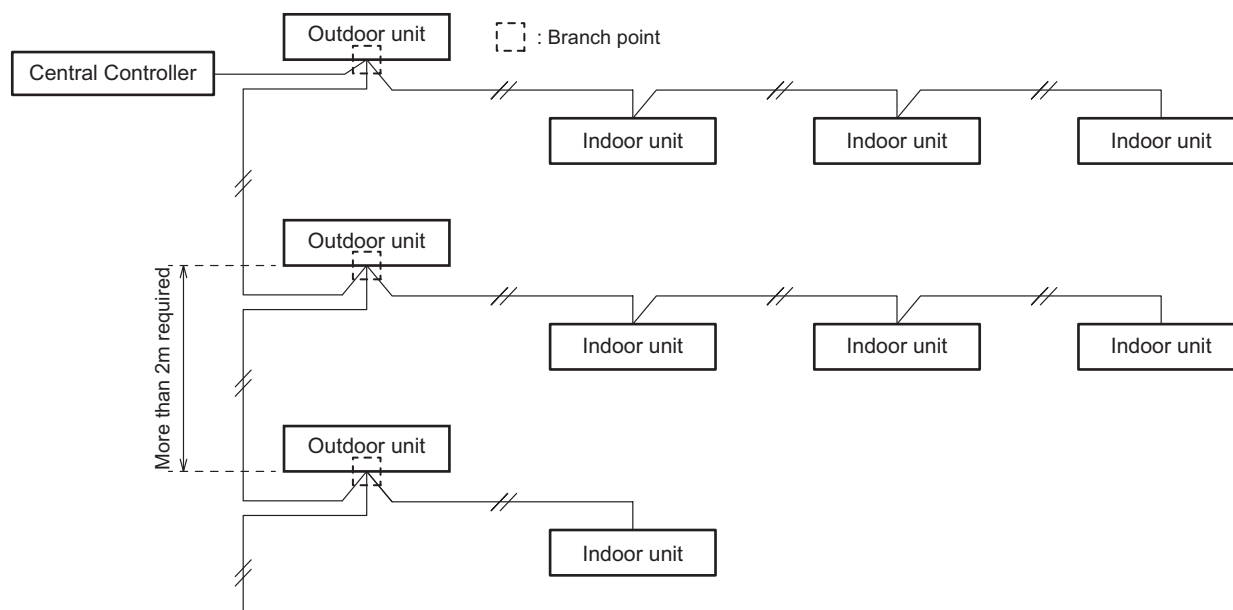


Fig. 2-4

1. Electrical Wiring

- (5) Use shielded wires for inter-unit control wiring (C) and ground the shield on both sides, otherwise misoperation from noise may occur. (Fig. 2-5)

Connect wiring as shown in Section “1-3. Wiring System Diagrams”.

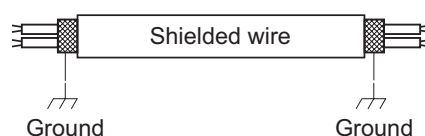


Fig. 2-5

- (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 fixing screw of the terminal board.

How to connect wiring to the terminal

■ For stranded wiring

- (1) Cut the wire end with cutting pliers, then strip the insulation to expose the stranded wiring about 10 mm and tightly twist the wire ends. (Fig. 2-6)
- (2) Using a Phillips head screwdriver, remove the terminal screw(s) on the terminal board.
- (3) Using a ring connector fastener or pliers, securely clamp each stripped wire end with a ring pressure terminal.
- (4) Place the ring pressure terminal, and replace and tighten the removed terminal screw using a screwdriver. (Fig. 2-7)

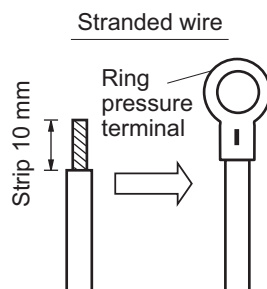


Fig. 2-6

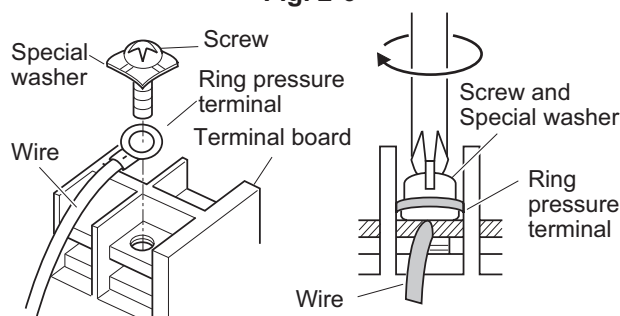


Fig. 2-7

■ Examples of shield wires

- (1) Remove cable coat not to scratch braided shield. (Fig. 2-8)
- (2) Ravel braided shield carefully and put tightly braided shield together. Coat with insulation tube or wrap insulation tape after putting tightly. (Fig. 2-9)
- (3) Remove coat of signal wire. (Fig. 2-10)
- (4) Connect signal wire removed coat and shield wire with pressure terminal. (Fig. 2-11)

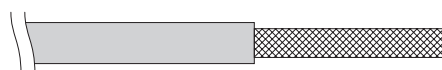


Fig. 2-8

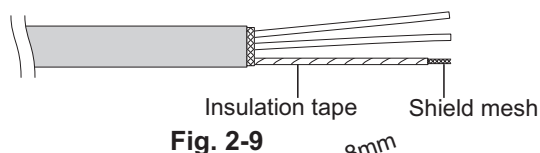


Fig. 2-9

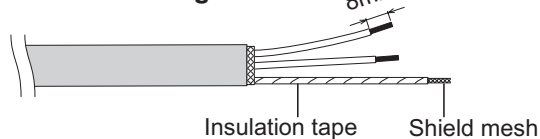


Fig. 2-10

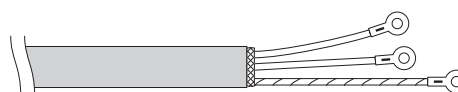


Fig. 2-11

■ Earth wire for power supply

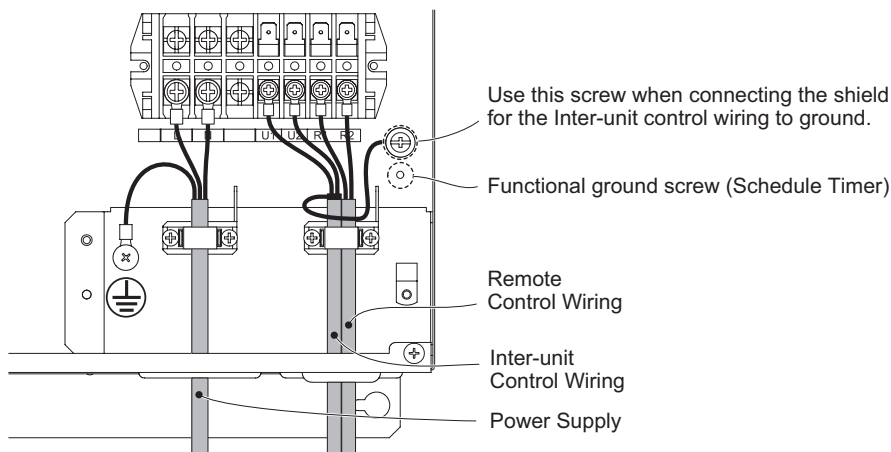
The earth wire should be longer than the other lead wires for electrical safety.

1. Electrical Wiring

■ Wiring sample

Type E2

- When connecting with 2WAY VRF system outdoor unit

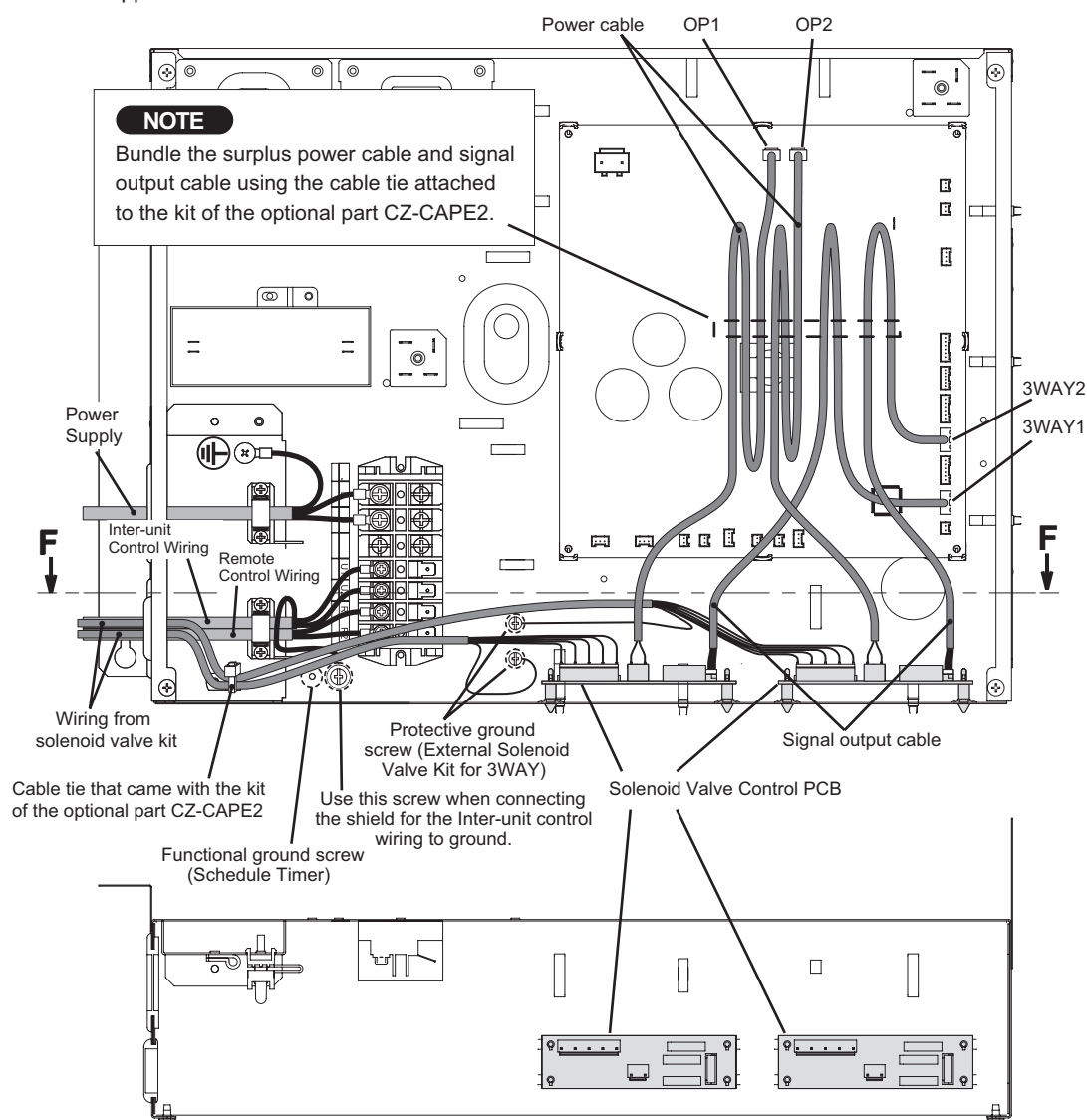


- In the case of connecting with 3WAY VRF outdoor unit

It is necessary to install 2 units of solenoid valve controllers (CZ-CAPE2) per one indoor unit.

Install the solenoid valve control PCB supplied with the solenoid valve controller (CZ-CAPE2) in the electrical component box.

Read the instructions supplied with the CZ-CAPE2.



Cross-section view in the direction of the arrow along the line F - F

2. SELECTING THE INSTALLATION SITE

2-7. High Static Pressure Ducted (Type E2)

AVOID:

- areas where leakage of flammable gas may be expected.
- places where large amounts of oil mist exist.
- direct sunlight.
- locations near heat sources which may affect the performance of the unit.
- locations where external air may enter the room directly. This may cause “condensation” on the air discharge ports, causing them to spray or drip water.
- locations where the remote controller will be splashed with water or affected by dampness or humidity.
- installing the remote controller behind curtains or furniture.
- locations where high-frequency emissions are generated.
- places where blocked air passages.
- places where the false ceiling is not noticeably on an incline.

DO:

- select an appropriate position from which every corner of the room can be uniformly cooled.
- select a location where the ceiling is strong enough to support the weight of the unit.
- select a location where tubing and drain pipe have the shortest run to the outdoor unit.
- allow room for operation and maintenance as well as unrestricted air flow around the unit.
- install the unit within the maximum elevation difference above or below the outdoor unit and within a total tubing length (L) from the outdoor unit as detailed in the Installation Instructions packed with the outdoor unit.
- allow room for mounting the remote controller about 1 m off the floor, in an area that is not in direct sunlight or in the flow of cool air from the indoor unit.
- Places where optimum air distribution can be ensured.
- Places where sufficient clearance for maintenance and service can be ensured.

3. How to install the indoor unit

3-7 High Static Pressure Ducted (Type E2)

3-7-1. Required Minimum Space for Installation and Service

(1) Dimensions of suspension bolt pitch and unit

Unit: mm

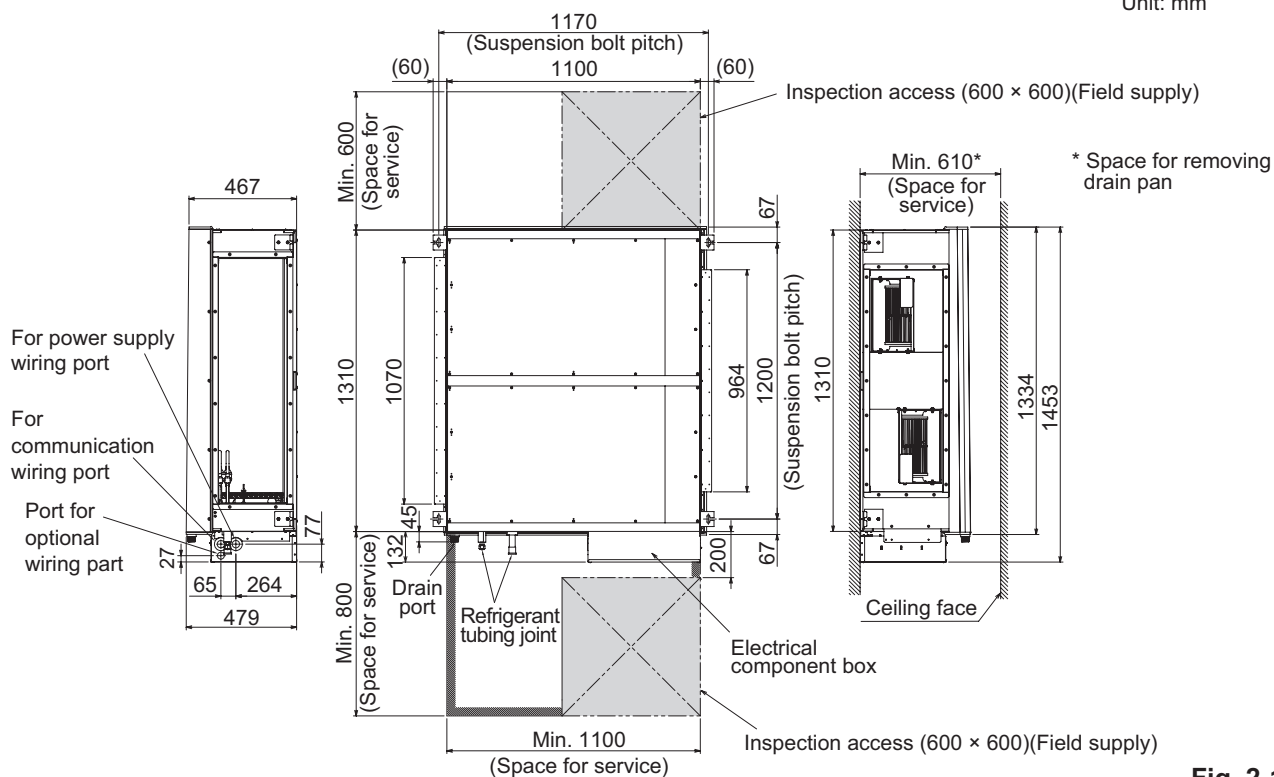


Fig. 2-143

(2) Dimensions of indoor unit (Type 180, 224, 280)

Unit : mm

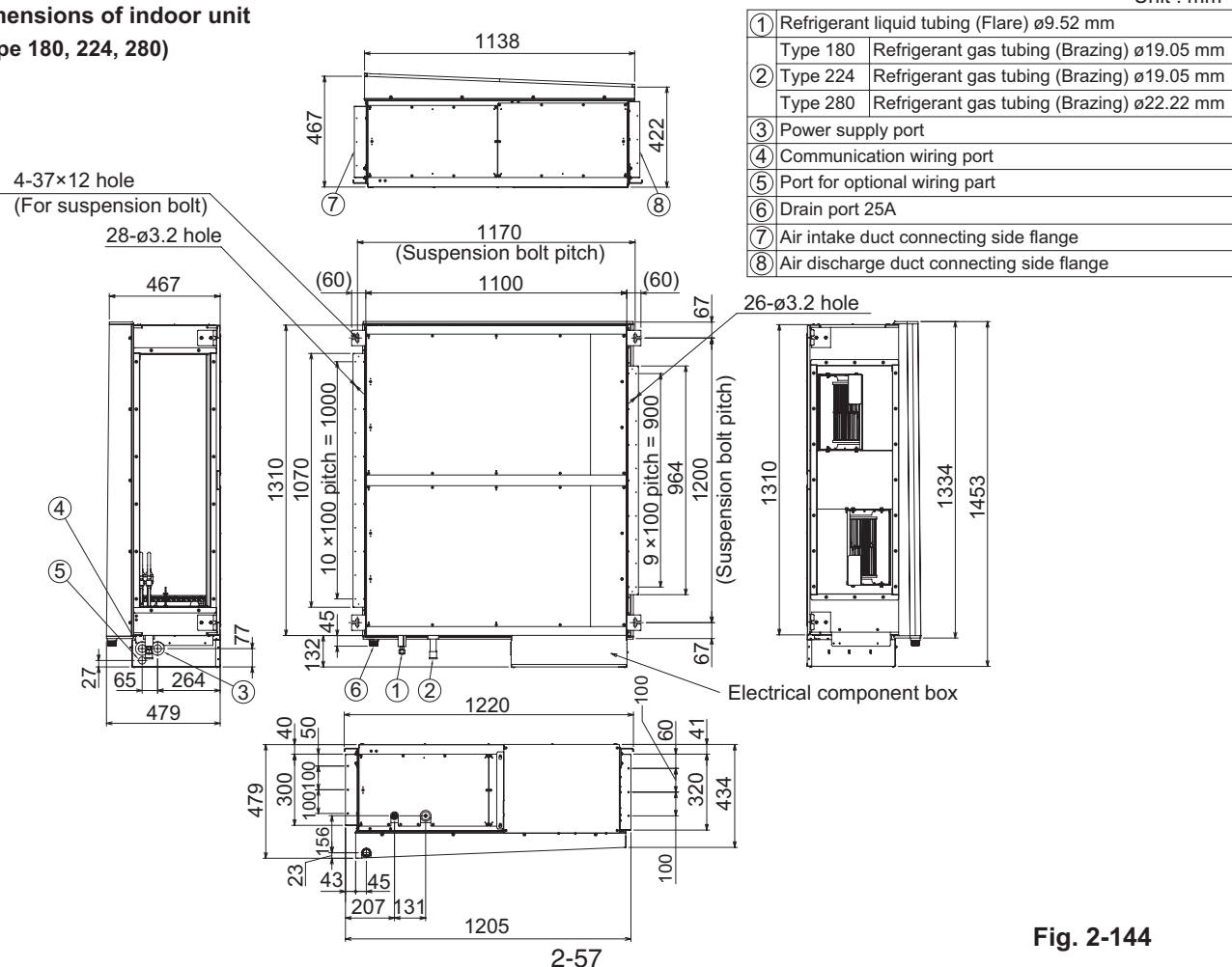


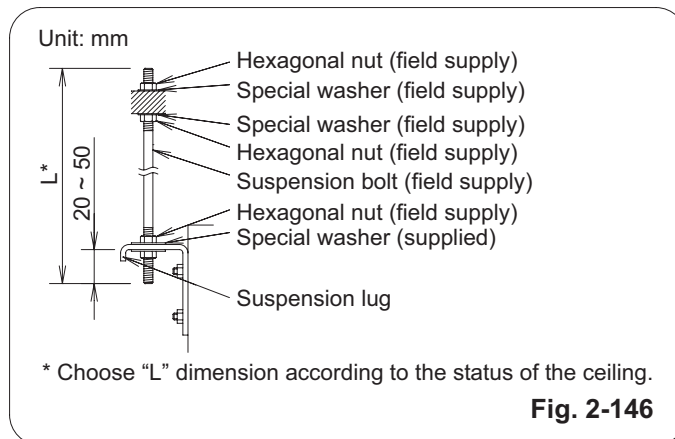
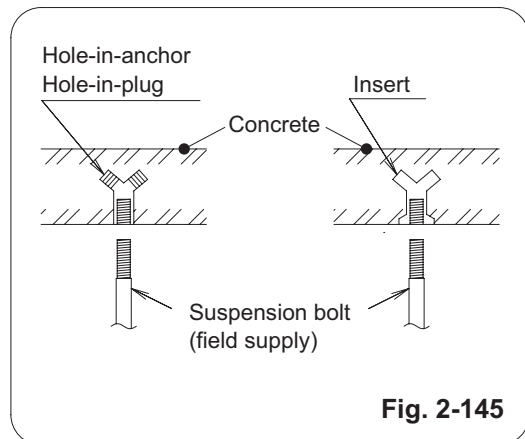
Fig. 2-144

3. How to install the indoor unit

3-7-2. Suspending the Indoor Unit

Depending on the ceiling type:

1. Check the suspension bolt pitch.
2. Ensure that the ceiling is strong enough to support the weight of the unit.
3. To prevent the unit from dropping, firmly fasten the suspension bolts as shown in the figure below.



NOTE

Type	180, 224, 280
Suspension bolt (field supply)	M10 or 3/8"



WARNING

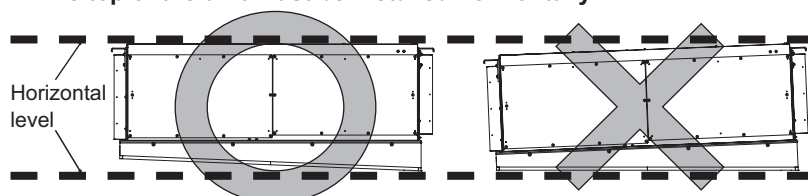
It is important that you use extreme care in supporting the indoor unit inside the ceiling. Ensure that the ceiling is strong enough to support the weight of the unit. Before suspending the unit, test the strength of each attached suspension bolt.

- (1) When placing the unit inside the ceiling, determine the pitch of the suspension bolts referring to the dimensional data given previously. Tubing must be laid and connected inside the ceiling when suspending the unit. If the ceiling is already constructed, lay the tubing into position for connection to the unit before placing the unit inside the ceiling.
- (2) Screw in the suspension bolts allowing them to protrude from the ceiling as shown in Fig. 2-145. (Cut the ceiling material, if necessary.)
- (3) Suspend and fix the indoor unit using the 2 hexagonal nuts (field supply) and special washers (supplied with the unit) as shown in Fig. 2-146.



CAUTION

- The top of the unit must be installed horizontally.



- Check the unit is placed horizontally.

Make sure the unit is installed level using a level or a vinyl hose filled with water.

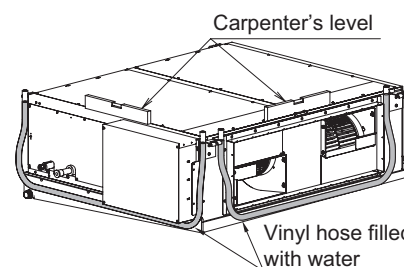
In using a vinyl hose instead of a level, adjust the top surface of the unit to the surface of the water at both ends of the vinyl hose and make horizontal adjustment on all 4 corners of the unit.

If the air discharge side of the unit is installed downward, splashing water or water leak may occur.

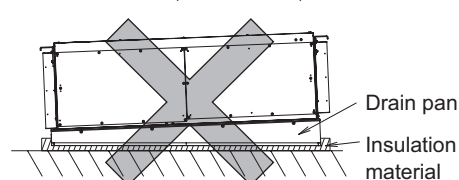
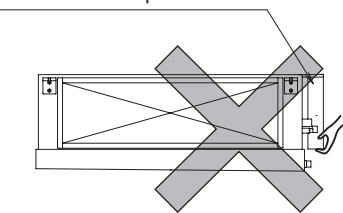
Also, the dust may accumulate inside the drain pan caused by draining residual water.

- When lifting the unit, do not attempt to hold the electrical component box in hand.
- Do not leave the drain pan of the unit downward for long hours. If doing so, the insulation material can be crushed. Crushed insulation can lead to condensation.

Vinyl hose filled with water



Electrical component box



3. How to install the indoor unit

3-7-3. Installing the Refrigerant Tubing

The size of the refrigerant tubing is as shown in the table below.

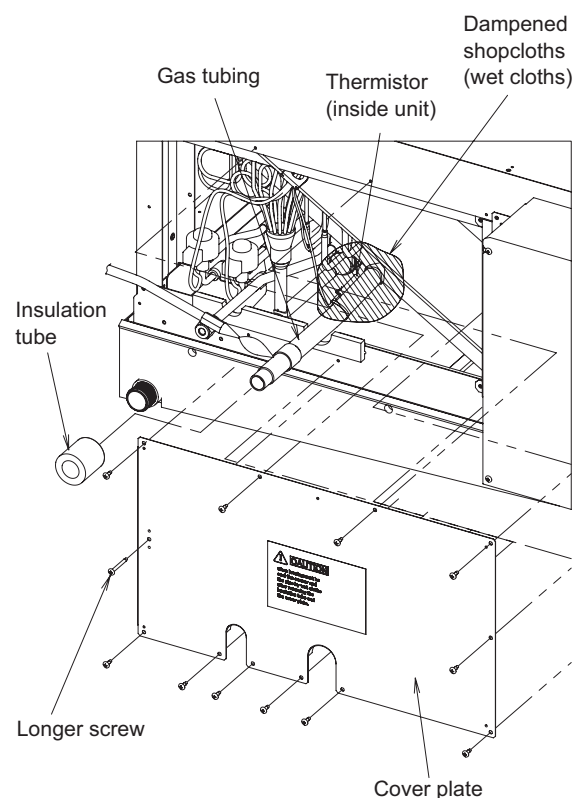
Table 2-10

Type	180	224	280
Gas tube	ø19.05 (Brazeing connection)	ø19.05 (Brazeing connection)	ø22.22 (Brazeing connection)
Liquid tube	ø9.52 (Flare connection) Tightening torque (approximate) : 34 ~ 42 N • m Thickness of connecting tube : 0.8 mm	ø9.52 (Flare connection) Tightening torque (approximate) : 34 ~ 42 N • m Thickness of connecting tube : 0.8 mm	ø9.52 (Flare connection) Tightening torque (approximate) : 34 ~ 42 N • m Thickness of connecting tube : 0.8 mm

NOTE

To fasten the flare nuts, apply specified torque.

- When brazing, must be cool the thermistor and the pipe by wet cloths after removing the insulation tube and the cover plate.
- When brazing the gas tubing, cool the tubing with dampened shopcloths as you work, as shown in the figure at right, to protect the unit's thermistor from the heat generated by brazing.
- Pipe insulation must be made after leak detection for tubing connection area was performed.
- Be sure to insulate both the gas tubing and liquid tubing. In addition, wrap the supplied insulation material around the tubing joints, and fasten in place with vinyl tape or other means. Failure to insulate the tubing may result in water leakage from condensation.
- Plug all gaps at tube through-holes in the unit with insulation or a similar substance to prevent air leakage.
- When connecting to the 3WAY VRF system's outdoor unit, it is necessary to install 2 units of solenoid valve kit (CZ-P160HR3). For details, refer to the supplied instructions manual with the outdoor unit and solenoid valve kit.
- When using as the fresh air intake mode (excluding Type 180) with connecting to the 2WAY VRF outdoor unit, it is necessary to connect with the RAP valve kits (CZ-P160RVK2). For details, refer to the section "3-7-9. How to Use Fresh Air Intake Mode".



3. How to install the indoor unit

3-7-4. Installing the Drain Piping

- (1) Prepare standard hard PVC pipe (O.D. 32 mm) for the drain and use the supplied drain socket to prevent water leaks.
The PVC pipe must be purchased separately.
When doing this, apply adhesive for the PVC pipe at the connection point.
- (2) If connecting a drain socket (supplied) to the threaded drain port, first wrap the drain port threads with sealing tape, then connect the joint. (Fig. 2-147)
- (3) Ensure the drain pipe has a downward slant (1/100 or more). (See the Fig. 2-148)
- (4) The drain pipe with a trap should be installed away from the indoor unit.
- (5) Do not forcibly install the drain pipe to the indoor unit tubing.
If forcibly installed, it may result in water leakage.
- (6) The drain pipe should be fixed at the nearest of the indoor unit.
Failure to do so may result in water leakage.
- (7) Do not attach any air purge equipment.
If attached, drain water may result in splashing out of the drain pipe.
- (8) When the drain piping is completed, perform the water leak test and check for a water leak.
If detected, it may result in water leakage or condensation.
- (9) When the drain piping is completed, perform the drainage test if the water drains smoothly.
If not draining smoothly, it may result in water leakage or condensation.
- (10) When the drain piping work is finished securely, wrap the insulation material around the indoor side drain pipe.
At this time, do not wrap together with the refrigerant tubing.
If wrapped together, the drain pipe is lifted and water drainage will not be operated.
Coincidentally, the water comes out of the drain pan and it can lead to water leakage.

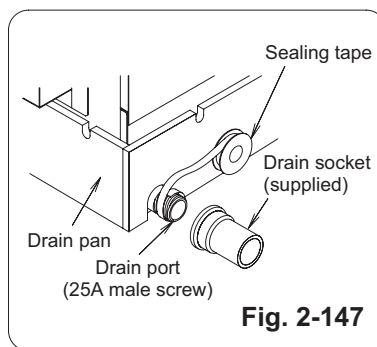


Fig. 2-147

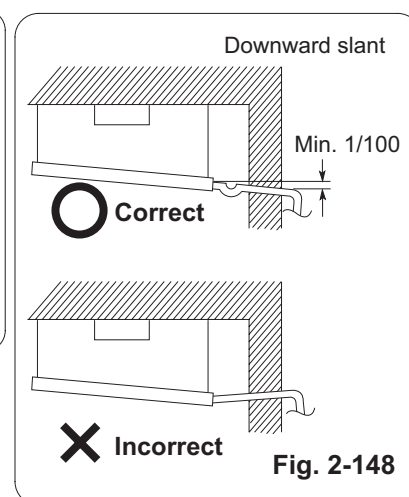


Fig. 2-148

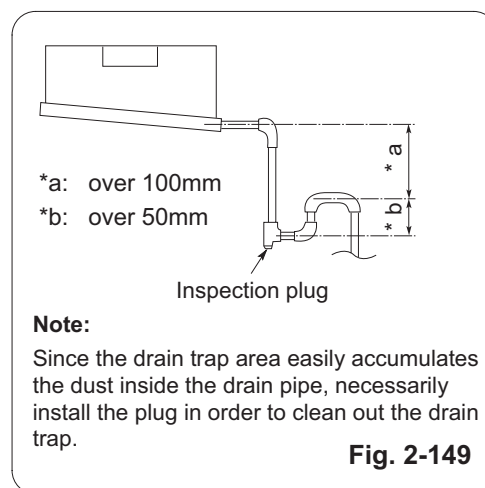


Fig. 2-149

3-7-5. Caution for Ducting Work

- This unit has high static pressure.
In case of small pressure resistance (for instance, a short duct), install an airflow control damper (field supply) for adjusting airflow volume as airflow volume / airflow noise increases.
- If the air conditioner is to be installed in a room such as an office or meeting room which needs a low sound level, provide a supply and return sound absorption chamber with an acoustic liner.
- Use a flexible canvas connection or vibration isolation hanger (field supply) to break transmission of mechanical vibration of the unit.

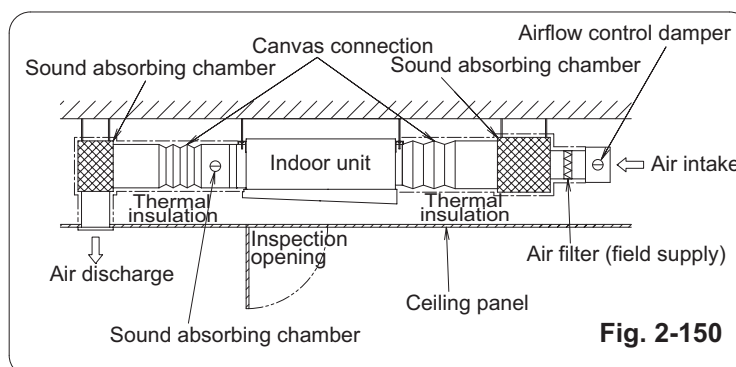


Fig. 2-150

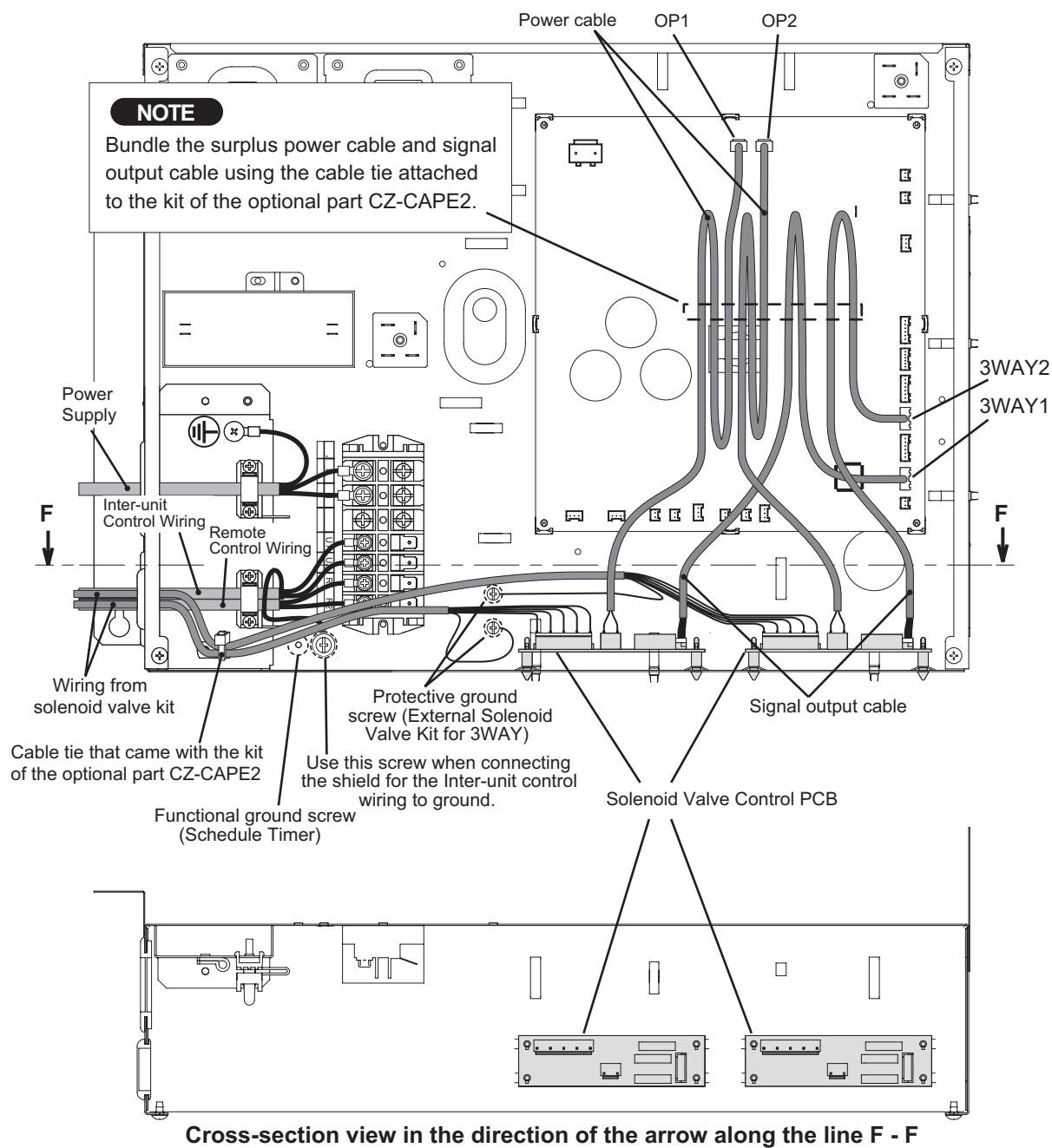


CAUTION

- Use incombustible duct materials.
- Use thermal insulation to prevent duct condensation.
- An air filter (field supply) must be installed at the air intake side.
If not installed, the heat exchanger will get dirty and the unit will reduce the quality.
- Obtain and install an air filter (field supply) which can easily wash away the dust by lukewarm, soapy water or suck up with a vacuum cleaner.
- Clean the air filter periodically to collect dust and other particles from the air.
- Use duct static pressure within a range of specification value.

4. Optional Parts

High Static Pressure Ducted (Type E2)



7. High Static Pressure Ducted Type (Type E2)

Unit specifications (B)

INDOOR			MODEL		S-224ME2E5							
PANEL			MODEL		-							
PERFORMANCE TEST CONDITION			ISO15042 / AS / NZS3823.1 / EN14511 / EN12102									
POWER SUPPLY			ø,Hz		1ø 50Hz (220V,230V,240V)			1ø 60Hz (220V,230V)				
C O O L I N G	CAPACITY		V		220	230	240	220	230	-		
			kW		22.4	22.4	22.4	22.4	22.4	-		
			BTU/h		76400	76400	76400	76400	76400	-		
			kcal/h(Fri./h)		-	-	-	-	-	-		
	CURRENT		A		2.55	2.45	2.35	2.55	2.45	-		
	INPUT POWER		W		440	440	440	440	440	-		
	ANNUAL CONSUMPTION		W *4		-	-	-	-	-	-		
	EER/EER CLASS		(W/W)*5/("A"~"G")		-	-	-	-	-	-		
	EER		BTU/hW		-	-	-	-	-	-		
	POWER FACTOR		%		78	78	78	78	78	-		
	NOISE INDOOR (H/M/L)		dB-A		45/43/41			45/43/41				
			Power Level dB		77/75/73			77/75/73				
NOISE OUTDOOR (H/L)		dB-A		-			-					
		Power Level dB		-			-					
H E A T I N G	CAPACITY		kW		25.0	25.0	25.0	25.0	25.0	-		
			BTU/h		85300	85300	85300	85300	85300	-		
			kcal/h(Fri./h)		-	-	-	-	-	-		
	CURRENT		A		2.55	2.45	2.35	2.55	2.45	-		
	INPUT POWER		W		440	440	440	440	440	-		
	COP/COP CLASS		(W/W)*5/("A"~"G")		-	-	-	-	-	-		
	COP		BTU/hW		-	-	-	-	-	-		
	POWER FACTOR		%		78	78	78	78	78	-		
	NOISE INDOOR (H/M/L)		dB-A		45/43/41			45/43/41				
			Power Level dB		77/75/73			77/75/73				
	NOISE OUTDOOR (H/L)		dB-A		-			-				
			Power Level dB		-			-				
EXTRA LOW TEMP	CAPACITY(kW)/INPUT POWER(W)/COP		-			-						
Cooling	MAX CURRENT(A)/MAX INPUT POWER(W)		6.90 / 1.27k	6.60 / 1.27k	6.60 / 1.27k	6.90 / 1.27k	6.60 / 1.27k	-				
Heating	MAX CURRENT(A)/MAX INPUT POWER(W)		6.90 / 1.27k	6.60 / 1.27k	6.60 / 1.27k	6.90 / 1.27k	6.60 / 1.27k	-				
STARTING CURRENT(A)/COMP OUTPUT(W)			-	-	-	-	-	-				
NETWORK IMPEDANCE (QMAX.) *3			-			-						
FM OUTPUT (ID/OD) W			560	/	-	560	/	-				
MOISTURE REMOVAL VOLUME			12.4 (26.0)			12.4 (26.0)						
External static pressure			140 (MAX 270)			140 (MAX 270)						
I/D AIR FLOW	COOL	m³/min (m³/h) (H/M/L)	56/51/44 (3360/3060/2640)			56/51/44 (3360/3060/2640)						
	HEAT	m³/min (m³/h) (H/M/L)	56/51/44 (3360/3060/2640)			56/51/44 (3360/3060/2640)						
O/D AIR FLOW	COOL	m³/min (ft³/min)	-			-						
	HEAT	m³/min (ft³/min)	-			-						
REFRIGERANT TYPE, AMOUNT g(oz)			R410A,-			R410A,-						
P R O M	D I M	HEIGHT : H mm(inch)	479 (18-27/32)			479 (18-27/32)						
		WIDTH : W mm(inch)	1453 (57-7/32)			1453 (57-7/32)						
		DEPTH : D mm(inch)	1205 (47-7/16)			1205 (47-7/16)						
P A C M	D I M	HEIGHT : H mm(inch)	614 (24-3/16)			614 (24-3/16)						
		WIDTH : W mm(inch)	1536 (60-15/32)			1536 (60-15/32)						
		DEPTH : D mm(inch)	1339 (52-23/32)			1339 (52-23/32)						
MASS		(NET) kg (lb)	102 (252)			102 (252)						
		(GROSS) kg (lb)	135 (298)			135 (298)						
LAYERS LIMIT (actually)			4 (5)			4 (5)						
Operation Condition		Cool (DBT)	-			-						
		Heat (DBT)	-			-						
P I P I N G	PIPE DIAMETER mm (inch)		(Liquid) ø9.52 (3/8) (Gas) ø19.05 (3/4)			(Liquid) ø9.52 (3/8) (Gas) ø19.05 (3/4)						
	CONNECT METHOD, STD LENGTH m (ft)		(Liquid) flared type (Gas) Brazing			(Liquid) flared type (Gas) Brazing						
	PIPE LENGTH RANGE m (ft)		- (~)			- (~)						
	I/D & O/D HEIGHT DIFFERENCE m (ft)		-			-						
	ADD GAS AMOUNT g/m (oz/ft)		-			-						
PIPE LENGTH FOR ADDITIONAL GAS m (ft)			-			-						

*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.

7. High Static Pressure Ducted Type (Type E2)

Unit specifications (C)

INDOOR			MODEL		S-280ME2E5							
PANEL			MODEL		-							
PERFORMANCE TEST CONDITION			ISO15042 / AS / NZS3823.1 / EN14511 / EN12102									
POWER SUPPLY			ø,Hz		1ø 50Hz (220V,230V,240V)			1ø 60Hz (220V,230V)				
C O O L I N G	CAPACITY		V		220	230	240	220	230	-		
			kW		28.0	28.0	28.0	28.0	28.0	-		
			BTU/h		95500	95500	95500	95500	95500	-		
			kcal/h(Fri./h)		-	-	-	-	-	-		
	CURRENT		A		3.95	3.85	3.70	3.95	3.85	-		
	INPUT POWER		W		715	715	715	715	715	-		
	ANNUAL CONSUMPTION		W *4		-	-	-	-	-	-		
	EER/EER CLASS		(W/W)*5/("A"~"G")		-	-	-	-	-	-		
	EER		BTU/hW		-	-	-	-	-	-		
	POWER FACTOR		%		82	81	81	82	81			
	NOISE INDOOR (H/M/L)		dB-A		49/47/43			49/47/43				
Power Level dB			81/79/75			81/79/75						
NOISE OUTDOOR (H/L)		dB-A		-			-					
		Power Level dB		-			-					
H E A T I N G	CAPACITY		kW		31.5	31.5	31.5	31.5	31.5	-		
			BTU/h		107500	107500	107500	107500	107500	-		
			kcal/h(Fri./h)		-	-	-	-	-	-		
	CURRENT		A		3.95	3.85	3.70	3.95	3.85	-		
	INPUT POWER		W		715	715	715	715	715	-		
	COP/COP CLASS		(W/W)*5/("A"~"G")		-	-	-	-	-	-		
	COP		BTU/hW		-	-	-	-	-	-		
	POWER FACTOR		%		82	81	81	82	81	-		
	NOISE INDOOR (H/M/L)		dB-A		49/47/43			49/47/43				
			Power Level dB		81/79/75			81/79/75				
	NOISE OUTDOOR (H/L)		dB-A		-			-				
Power Level dB			-			-						
EXTRA LOW TEMP	CAPACITY(kW)/INPUT POWER(W)/COP		-			-						
Cooling	MAX CURRENT(A)/MAX INPUT POWER(W)		7.30 / 1.66k	7.30 / 1.74k	7.30 / 1.81k	7.30 / 1.66k	7.30 / 1.74k	-				
Heating	MAX CURRENT(A)/MAX INPUT POWER(W)		7.30 / 1.66k	7.30 / 1.74k	7.30 / 1.81k	7.30 / 1.66k	7.30 / 1.74k	-				
STARTING CURRENT(A)/COMP OUTPUT(W)			-	-	-	-	-	-				
NETWORK IMPEDANCE (ΩMAX.) *3			-			-						
FM OUTPUT (ID/OD) W			750	/	-	750	/	-				
MOISTURE REMOVAL VOLUME			L/h(Pt/h)			15.6 (32.8)						
External static pressure			Pa			140 (MAX 270)						
I/D AIR FLOW	COOL	m³/min (m³/h) (H/M/L)	72/63/53 (4320/3780/3180)			72/63/53 (4320/3780/3180)						
	HEAT	m³/min (m³/h) (H/M/L)	72/63/53 (4320/3780/3180)			72/63/53 (4320/3780/3180)						
O/D AIR FLOW	COOL	m³/min (ft³/min)	-			-						
	HEAT	m³/min (ft³/min)	-			-						
REFRIGERANT TYPE, AMOUNT g(oz)			R410A,-			R410A,-						
P R O M	D	HEIGHT : H mm(inch)	479 (18-27/32)			479 (18-27/32)						
		WIDTH : W mm(inch)	1453 (57-7/32)			1453 (57-7/32)						
		DEPTH : D mm(inch)	1205 (47-7/16)			1205 (47-7/16)						
P A C M	I	HEIGHT : H mm(inch)	614 (24-3/16)			614 (24-3/16)						
		WIDTH : W mm(inch)	1536 (60-15/32)			1536 (60-15/32)						
		DEPTH : D mm(inch)	1339 (52-23/32)			1339 (52-23/32)						
MASS		(NET) kg (lb)	106 (234)			106 (234)						
		(GROSS) kg (lb)	139 (307)			139 (307)						
LAYERS LIMIT (actually)			4 (5)			4 (5)						
Operation Condition		Cool (DBT)	-			-						
		Heat (DBT)	-			-						
P I P I N G	PIPE DIAMETER mm (inch)		(Liquid) ø9.52 (3/8) (Gas) ø22.22 (7/8)			(Liquid) ø9.52 (3/8) (Gas) ø22.22 (7/8)						
	CONNECT METHOD, STD LENGTH m (ft)		(Liquid) flared type (Gas) Brazing			(Liquid) flared type (Gas) Brazing						
	PIPE LENGTH RANGE m (ft)		- (~)			- (~)						
	I/D & O/D HEIGHT DIFFERENCE m (ft)		-			-						
	ADD GAS AMOUNT g/m (oz/ft)		-			-						
	PIPE LENGTH FOR ADDITIONAL GAS m (ft)		-			-						

*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.

7. High Static Pressure Ducted Type (Type E2)

Unit specifications (In case of Fresh Air Intake Mode) (D)

INDOOR			MODEL		S-224ME2E5								
PANEL			MODEL		-								
PERFORMANCE TEST CONDITION *3			-										
POWER SUPPLY			ø,Hz		1ø 50Hz (220V,230V,240V)			1ø 60Hz (220V,230V)					
			V		220	230	240	220	230	-			
C O O L I N G	CAPACITY	kW *4	22.4	22.4	22.4	22.4	22.4	-					
		BTU *4	76400	76400	76400	76400	76400	-					
		kcal/h(Fri./h)	-	-	-	-	-	-					
		CURRENT	A *4	1.90	1.85	1.80	1.90	1.85	-				
	INPUT POWER	W *4	290	290	290	290	290	-					
	ANNUAL CONSUMPTION	W *1	-	-	-	-	-	-					
	EER/EER CLASS	(W/W)*2/("A"~"G")	-	-	-	-	-	-					
	EER	BTU/hW	-	-	-	-	-	-					
	POWER FACTOR	% *4	69	68	67	69	68	-					
	NOISE INDOOR (H/M/L)	dB-A *4,5	43 / - / -				43 / - / -						
Power Level dB *4		75 / - / -				75 / - / -							
NOISE OUTDOOR (H/L)		dB-A	-				-						
Power Level dB		-				-							
H E A T I N G	CAPACITY	kW *4	21.2	21.2	21.2	21.2	21.2	-					
		BTU/h *4	72300	72300	72300	72300	72300	-					
		kcal/h(Fri./h)	-	-	-	-	-	-					
	CURRENT	A *4	1.90	1.85	1.80	1.90	1.85	-					
	INPUT POWER	W *	290	290	290	290	290	-					
	COP/COP CLASS	(W/W)*2/("A"~"G")	-	-	-	-	-	-					
	COP	BTU/hW	-	-	-	-	-	-					
	POWER FACTOR	% *4	69	68	67	69	68	-					
	NOISE INDOOR (H/M/L)	dB-A *4,5	43 / - / -				43 / - / -						
		Power Level dB *4	75 / - / -				75 / - / -						
NOISE OUTDOOR (H/L)	dB-A	-				-							
	Power Level dB	-				-							
EXTRA LOW TEMP	CAPACITY(KW)/INPUT POWER(W)/COP		-				-						
Cooling	MAX CURRENT(A)/MAX INPUT POWER(W)		6.90 / 1.27k	6.60 / 1.27k	6.60 / 1.27k	6.90 / 1.27k	6.60 / 1.27k	-					
Heating	MAX CURRENT(A)/MAX INPUT POWER(W)		6.90 / 1.27k	6.60 / 1.27k	6.60 / 1.27k	6.90 / 1.27k	6.60 / 1.27k	-					
STARTING CURRENT(A)/COMP OUTPUT(W)			-	-	-	-	-	-					
NETWORK IMPEDANCE (ΩMAX.)			-				-						
FM OUTPUT (ID/OD) W			560	/	-	560	/	-					
MOISTURE REMOVAL VOLUME			L/h(Pt/h)		- (-)		- (-)						
External static pressure			Pa *4		200		200						
I/D AIR FLOW	COOL	m³/min (m³/h) (H/M/L) *4	28.3 / - / - (1700 / - / -)				28.3 / - / - (1700 / - / -)						
	HEAT	m³/min (m³/h) (H/M/L) *4	28.3 / - / - (1700 / - / -)				28.3 / - / - (1700 / - / -)						
O/D AIR FLOW	COOL	m³/min (ft³/min)	-				-						
	HEAT	m³/min (ft³/min)	-				-						
REFRIGERANT TYPE, AMOUNT g(oz)			R410A,-				R410A,-						
P R O M	D I M	HEIGHT : H mm(inch)	479 (18-27/32)				479 (18-27/32)						
		WIDTH : W mm(inch)	1453 (57-7/32)				1453 (57-7/32)						
		DEPTH : D mm(inch)	1205 (47-7/16)				1205 (47-7/16)						
P A C M	D I M	HEIGHT : H mm(inch)	614 (24-3/16)				614 (24-3/16)						
		WIDTH : W mm(inch)	1536 (60-15/32)				1536 (60-15/32)						
		DEPTH : D mm(inch)	1339 (52-23/32)				1339 (52-23/32)						
MASS	(NET) kg (lb)		102 (252)				102 (252)						
	(GROSS) kg (lb)		135 (298)				135 (298)						
LAYERS LIMIT (actually)			4 (5)				4 (5)						
Operation Condition		Cool (DBT)	-				-						
		Heat (DBT)	-				-						
P I P I N G	PIPE DIAMETER mm (inch)		(Liquid) ø9.52 (3/8) (Gas) ø19.05 (3/4)				(Liquid) ø9.52 (3/8) (Gas) ø19.05 (3/4)						
	CONNECT METHOD, STD LENGTH m (ft)		(Liquid) flared type (Gas) Brazing				(Liquid) flared type (Gas) Brazing						
	PIPE LENGTH RANGE m (ft)		- (~)				- (~)						
	I/D & O/D HEIGHT DIFFERENCE m (ft)		-				-						
	ADD GAS AMOUNT g/m (oz/ft)		-				-						
PIPE LENGTH FOR ADDITIONAL GAS m (ft)			-				-						

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

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

*3: Cooling: Outdoor temp. 33°CDB / 28°CWB and discharge air temp. setting 18°C, pipe length: 7.5 m

Heating: Outdoor temp. 0°CDB / -2.9°CWB and discharge air temp. setting 45°C, pipe length: 7.5 m

*4: Values in the case of "Fresh Air Intake Mode" setting.

*5: Anechoic chamber conversion value, measured at a point 1.5m downward from the unit center. Discharge duct length: 2m. Suction duct length: 1m.

7. High Static Pressure Ducted Type (Type E2)

Unit specifications (In case of Fresh Air Intake Mode) (E)

INDOOR		MODEL	S-280ME2E5								
PANEL		MODEL	-								
PERFORMANCE TEST CONDITION *3			-								
POWER SUPPLY		φ,Hz	1φ 50Hz (220V,230V,240V)			1φ 60Hz (220V,230V)					
		V	220	230	240	220	230	-			
C O O L I N G	CAPACITY	kW *4	28.0	28.0	28.0	28.0	28.0	-			
		BTU *4	95500	95500	95500	95500	95500	-			
		kcal/h(Fri./h)	-	-	-	-	-	-			
	CURRENT	A *4	2.30	2.20	2.10	2.30	2.20	-			
	INPUT POWER	W *4	350	350	350	350	350	-			
	ANNUAL CONSUMPTION	W *1	-	-	-	-	-	-			
	EER/EER CLASS	(W/W)*2/("A"~"G")	-	-	-	-	-	-			
	EER	BTU/hW	-	-	-	-	-	-			
	POWER FACTOR	% *4	69	69	69	69	69	-			
	NOISE INDOOR (H/M/L)	dB-A *4,5	44 / - / -			44 / - / -					
		Power Level dB *4	76 / - / -			76 / - / -					
H E A T I N G	CAPACITY	kW *4	26.5	26.5	26.5	26.5	26.5	-			
		BTU/h *4	90400	90400	90400	90400	90400	-			
		kcal/h(Fri./h)	-	-	-	-	-	-			
	CURRENT	A *4	2.30	2.20	2.10	2.30	2.20	-			
	INPUT POWER	W *4	350	350	350	350	350	-			
	COP/COP CLASS	(W/W)*2/("A"~"G")	-	-	-	-	-	-			
	COP	BTU/hW	-	-	-	-	-	-			
	POWER FACTOR	% *4	69	69	69	69	69	-			
	NOISE INDOOR (H/M/L)	dB-A *4,5	44 / - / -			44 / - / -					
		Power Level dB *4	76 / - / -			76 / - / -					
EXTRA LOW TEMP	CAPACITY(kW)/INPUT POWER(W)/COP		-			-					
			-			-					
Cooling	MAX CURRENT(A)/MAX INPUT POWER(W)		7.30 / 1.66k	7.30 / 1.74k	7.30 / 1.81k	7.30 / 1.66k	7.30 / 1.74k	-			
Heating	MAX CURRENT(A)/MAX INPUT POWER(W)		7.30 / 1.66k	7.30 / 1.74k	7.30 / 1.81k	7.30 / 1.66k	7.30 / 1.74k	-			
STARTING CURRENT(A)/COMP OUTPUT(W)			-	-	-	-	-	-			
NETWORK IMPEDANCE (ΩMAX.)			-			-					
FM OUTPUT (ID/OD) W			750	/	-	750	/	-			
MOISTURE REMOVAL VOLUME		L/h(Pt/h)	- (-)			- (-)					
External static pressure		Pa	200			200					
I/D AIR FLOW	COOL	m³/min (m³/h) (H/M/L) *4	35 / - / - (2100 / - / -)			35 / - / - (2100 / - / -)					
	HEAT	m³/min (m³/h) (H/M/L) *4	35 / - / - (2100 / - / -)			35 / - / - (2100 / - / -)					
O/D AIR FLOW	COOL	m³/min (ft³/min)	-			-					
	HEAT	m³/min (ft³/min)	-			-					
REFRIGERANT TYPE, AMOUNT g(oz)			R410A,-			R410A,-					
P R O M	HEIGHT : H mm(inch)		479 (18-27/32)			479 (18-27/32)					
	WIDTH : W mm(inch)		1453 (57-7/32)			1453 (57-7/32)					
	DEPTH : D mm(inch)		1205 (47-7/16)			1205 (47-7/16)					
P A C M	HEIGHT : H mm(inch)		614 (24-3/16)			614 (24-3/16)					
	WIDTH : W mm(inch)		1536 (60-15/32)			1536 (60-15/32)					
	DEPTH : D mm(inch)		1339 (52-23/32)			1339 (52-23/32)					
MASS	(NET) kg (lb)		106 (234)			106 (234)					
	(GROSS) kg (lb)		139 (307)			139 (307)					
LAYERS LIMIT (actually)			4 (5)			4 (5)					
Operation Condition		Cool (DBT)	-			-					
		Heat (DBT)	-			-					
P I P I N G	PIPE DIAMETER mm (inch)		(Liquid) ø9.52 (3/8) (Gas) ø22.22 (7/8)			(Liquid) ø9.52 (3/8) (Gas) ø22.22 (7/8)					
	CONNECT METHOD, STD LENGTH m (ft)		(Liquid) flared type (Gas) Brazing			(Liquid) flared type (Gas) Brazing					
	PIPE LENGTH RANGE m (ft)		- (~)			- (~)					
	I/D & O/D HEIGHT DIFFERENCE m (ft)		-			-					
	ADD GAS AMOUNT g/m (oz/ft)		-			-					
	PIPE LENGTH FOR ADDITIONAL GAS m (ft)		-			-					

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

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

*3: Cooling: Outdoor temp. 33°CDB / 28°CWB and discharge air temp. setting 18°C, pipe length: 7.5 m

Heating: Outdoor temp. 0°CDB / -2.9°CWB and discharge air temp. setting 45°C, pipe length: 7.5 m

*4: Values in the case of "Fresh Air Intake Mode" setting.

*5: Anechoic chamber conversion value, measured at a point 1.5m downward from the unit center. Discharge duct length: 2m. Suction duct length: 1m.

7. High Static Pressure Ducted Type (Type E2)

Indoor unit (B)

MODEL No.		S-224ME2E5
Power source		50Hz ~220 - 230 - 240 V, single-phase 60Hz ~220 - 230 V, single-phase
Controller P.C.B. Ass'y		
Fan (Number...diameter)	mm	SIROCCO (2...ø250)
Fan motor		
Model...Nominal output	W	DMUB6D1AC...560 W DMUB6D2AC...560 W
Power source		100 - 391 VDC
No. of pole...r.p.m. (230V, High)	rpm	8P...1,060
Electronic expansion valve		
Coil		HAM-MD12ST-7 HAM-MD12ST-8
Coil resistance (at 20°C)	Ω	WHT – RED : 46 ORG – RED : 46 YEL – RED : 46 BLU – RED : 46
Valve body		HAM-BD30MS-3
Heat exchanger		
Coil		Aluminium plate fin / Copper tube
Rows...fin pitch	mm	3...1.8
Face area	m ²	0.648

7. High Static Pressure Ducted Type (Type E2)

Indoor unit (C)

MODEL No.		S-280ME2E5
Power source		50Hz ~220 - 230 - 240 V, single-phase 60Hz ~220 - 230 V, single-phase
Controller P.C.B. Ass'y		
Fan (Number...diameter)	mm	SIROCCO (2...ø250)
Fan motor		
Model...Nominal output	W	DMUB8D1AC...750 W DMUB8D2AC...750 W
Power source		100 - 391 VDC
No. of pole...r.p.m. (230V, High)	rpm	8P...1,200
Electronic expansion valve		
Coil		HAM-MD12ST-7 HAM-MD12ST-8
Coil resistance (at 20°C)	Ω	WHT – RED : 46 ORG – RED : 46 YEL – RED : 46 BLU – RED : 46
Valve body		HAM-BD30MS-3
Heat exchanger		
Coil		Aluminium plate fin / Copper tube
Rows...	mm	4...1.8
Face area	m ²	0.648

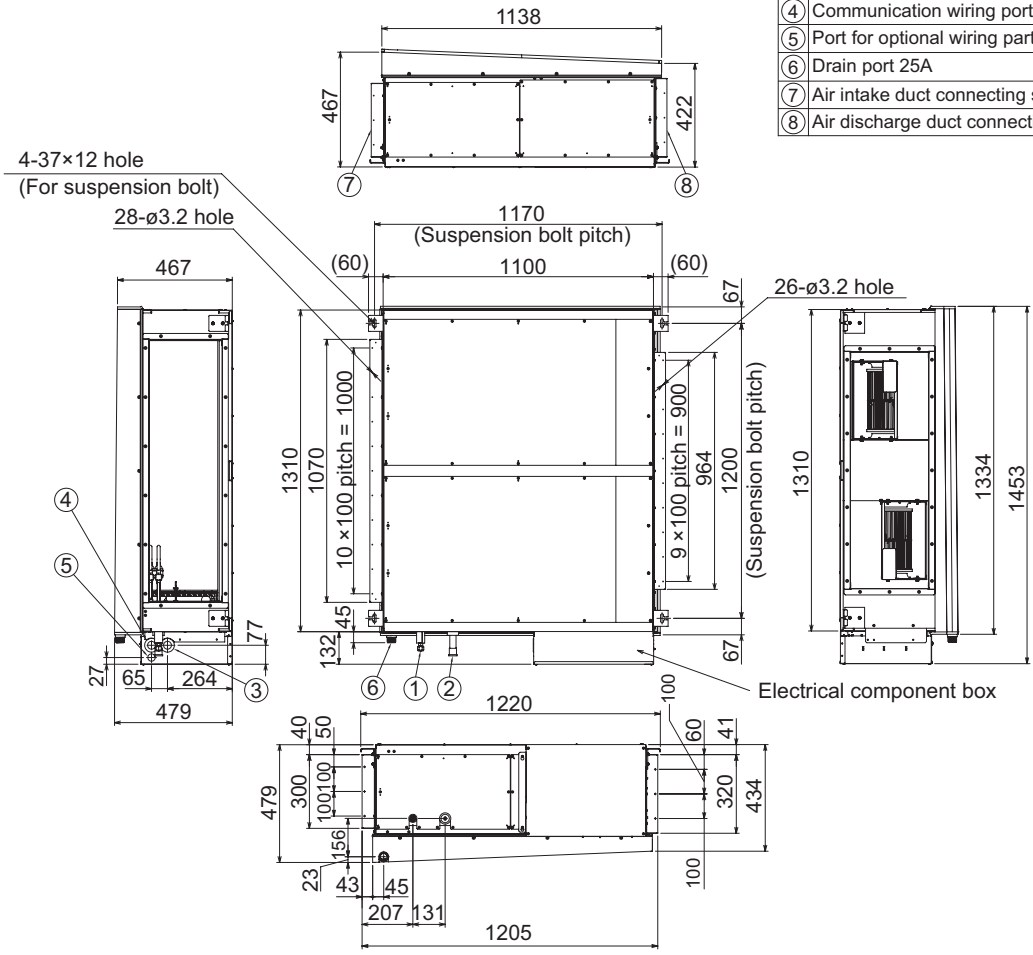
7. High Static Pressure Ducted Type (Type E2)

7-3. Dimensional Data

Indoor unit: S-180ME2E5 / 224ME2E5 / 280ME2E5

Unit : mm

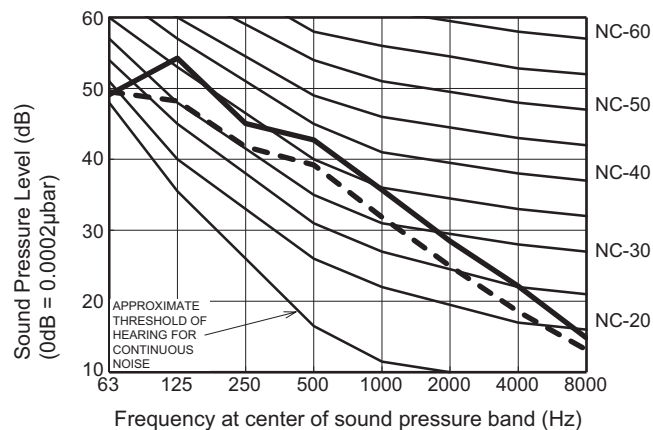
①	Refrigerant liquid tubing (Flare) ø9.52 mm	
	Type 180	Refrigerant gas tubing (Brazing) ø19.05 mm
②	Type 224	Refrigerant gas tubing (Brazing) ø19.05 mm
	Type 280	Refrigerant gas tubing (Brazing) ø22.22 mm
③	Power supply port	
④	Communication wiring port	
⑤	Port for optional wiring part	
⑥	Drain port 25A	
⑦	Air intake duct connecting side flange	
⑧	Air discharge duct connecting side flange	



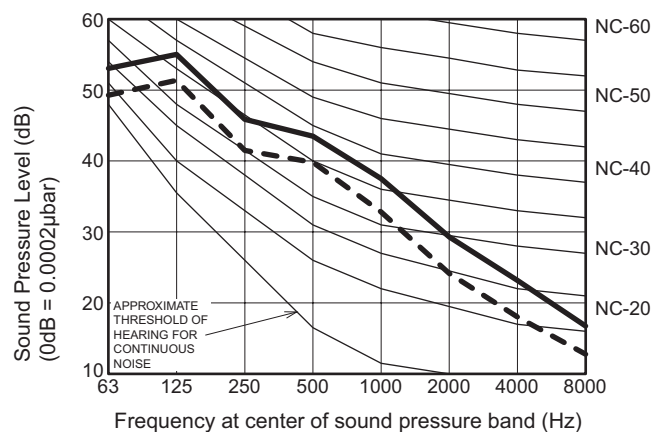
7. High Static Pressure Ducted Type (Type E2)

7-4. Noise Criterion Curves

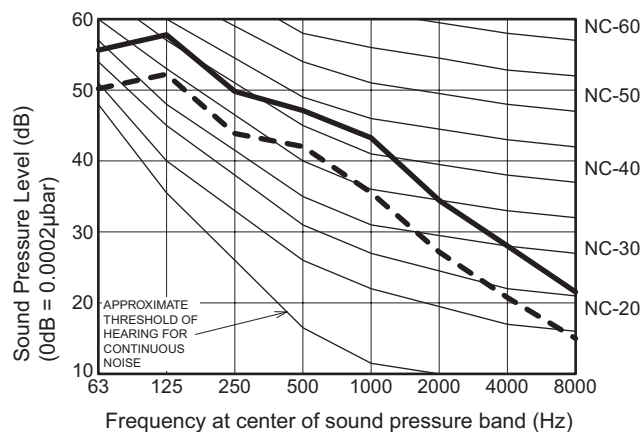
MODEL	: S-180ME2E5
SOUND LEVEL	: HIGH 44 dB(A), LOW 40 dB(A)
CONDITION	: Under the unit 1.5 m
SOURCE	: 220 - 230 - 240 V, Single-phase, 50 Hz 220 - 230 V, Single-phase, 60Hz



MODEL	: S-224ME2E5
SOUND LEVEL	: HIGH 45 dB(A), LOW 41 dB(A)
CONDITION	: Under the unit 1.5 m
SOURCE	: 220 - 230 - 240 V, Single-phase, 50 Hz 220 - 230 V, Single-phase, 60Hz



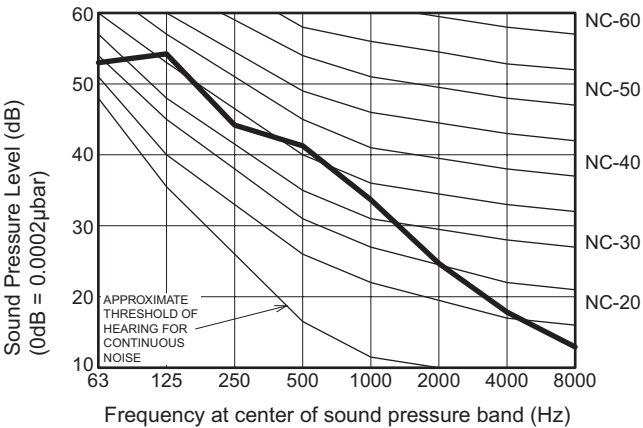
MODEL	: S-280ME2E5
SOUND LEVEL	: HIGH 49 dB(A), LOW 43 dB(A)
CONDITION	: Under the unit 1.5 m
SOURCE	: 220 - 230 - 240 V, Single-phase, 50 Hz 220 - 230 V, Single-phase, 60Hz



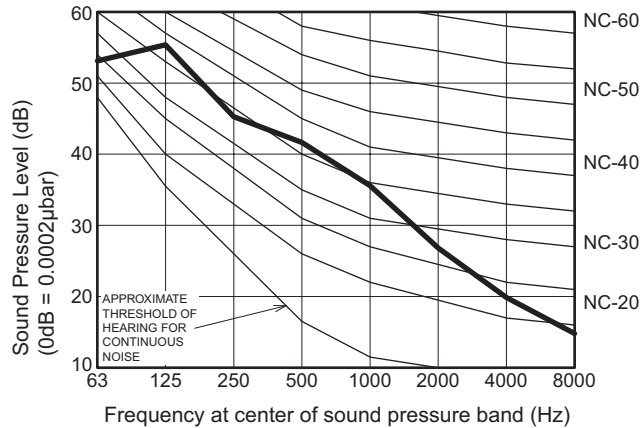
7. High Static Pressure Ducted Type (Type E2)

● In the case of Fresh Air Intake Mode

MODEL	: S-224ME2E5
SOUND LEVEL	: HIGH 43 dB(A)
CONDITION	: Under the unit 1.5m
SOURCE	: 220 - 230 - 240 V, Single-phase, 50 Hz 220 - 230 V, Single-phase, 60Hz



MODEL	: S-280ME2E5
SOUND LEVEL	: HIGH 44 dB(A)
CONDITION	: Under the unit 1.5m
SOURCE	: 220 - 230 - 240 V, Single-phase, 50 Hz 220 - 230 V, Single-phase, 60Hz



- REMARKS:
1. Value obtained in the actual place where the unit is installed may be slightly higher than the values shown in this graph because of the conditions of operation, the structure of the building, the background noise and other factors.
 2. The test results were obtained from an anechoic room.

NOTE

To evaluate the noise level, the maximum value of the measured sound pressure level is used. Read the value at each frequency level (on horizontal axis, center of the sound pressure band) from 63 Hz to 8000 Hz, and select the corresponding maximum value indicated on the vertical axis.

7. High Static Pressure Ducted Type (Type E2)

7-5. R.A.P. (Refrigerant Accumulation Protector) Value Kit

Type of Outdoor Unit	Parts	Fresh Air Intake Mode	
		Not In Use	In Use
2WAY VRF System	RAP Valve Kit (CZ-P160RVK2)	Not necessary	Necessary 2 sets
	Distribution Joint Kits for RAP Valve Kit (CZ-P680BK2)	Not necessary	Necessary 2 sets
	Solenoid Valve Controller (CZ-CAPE2)	Not necessary	Necessary 2 sets
3WAY VRF System	Solenoid Valve Kit for 3-Way System (CZ-P160HR3)	Necessary 2 sets	Necessary 2 sets
	Distribution Joint Kits for Solenoid Valve Kit (CZ-P680BH2)	Necessary 2 sets	Necessary 2 sets
	Solenoid Valve Controller (CZ-CAPE2)	Necessary 2 sets	Necessary 2 sets

Guidelines for Changing to Fresh Air Intake Mode

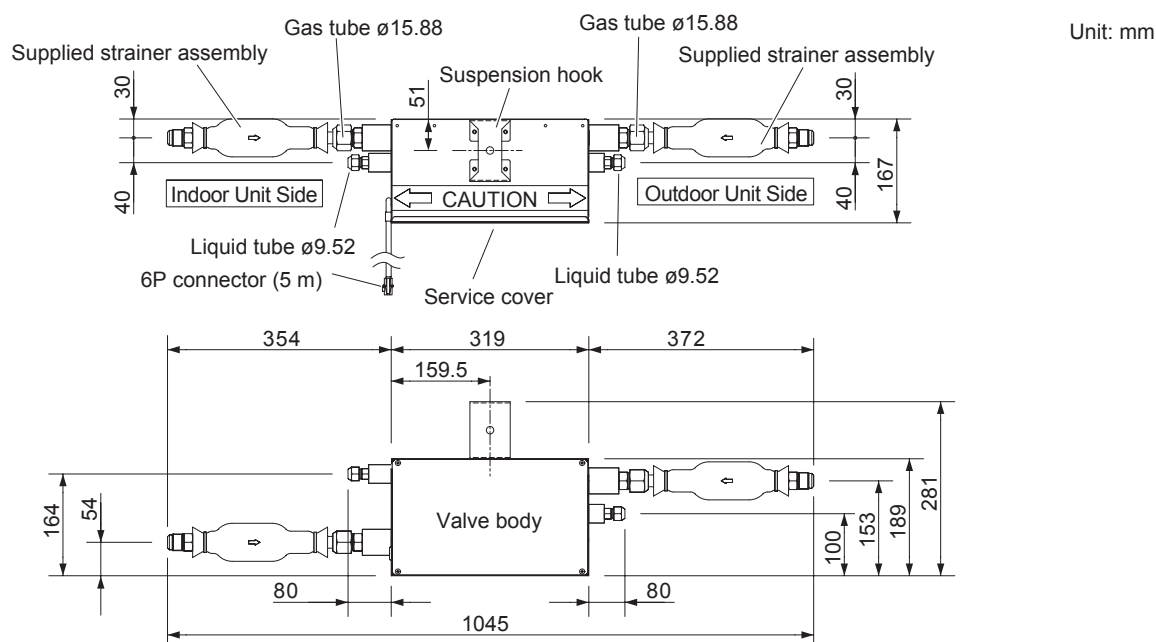
- (1) Install the RAP valve kit (CZ-P160RVK2) when connecting to the 2WAY VRF System outdoor unit. (When connecting to the 3WAY VRF System outdoor unit, install the solenoid valve kit (CZ-P160HR3) regardless of the indoor unit operating mode.)
- (2) Change the settings by the wired remote controller. (CZ-RTC2 or CZ-RTC3)
See the section "2. How to Set Fresh Air Intake Mode"
- (3) Attach the following label included with the indoor unit below the rating nameplate on the lid of the electrical component box.

<Remarks>

Caution on combination of connecting other indoor units and the type E2 indoor unit

- (1) The total rated capacity of indoor unit in fresh air intake mode (including the model "Fresh Air Intake Duct ") should be used within 30% of outdoor unit rated capacity.
- (2) The total rated capacity of indoor unit in fresh air intake mode and other indoor unit should not exceed 100% of outdoor unit.

- Secure the RAP valve kit using suspension bolts, etc. within 30 m from the indoor unit.
- Do not place the RAP valve kit directly on the ceiling.



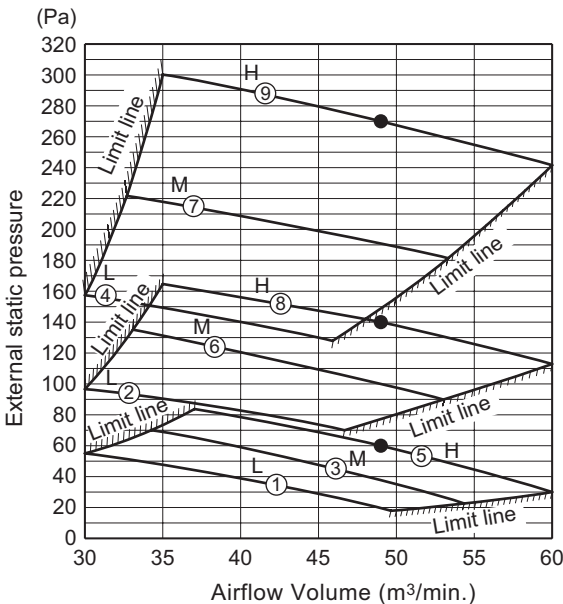
Note: This figure shows the valve body with the suspension hook and strainer assemblies installed.

7. High Static Pressure Ducted Type (Type E2)

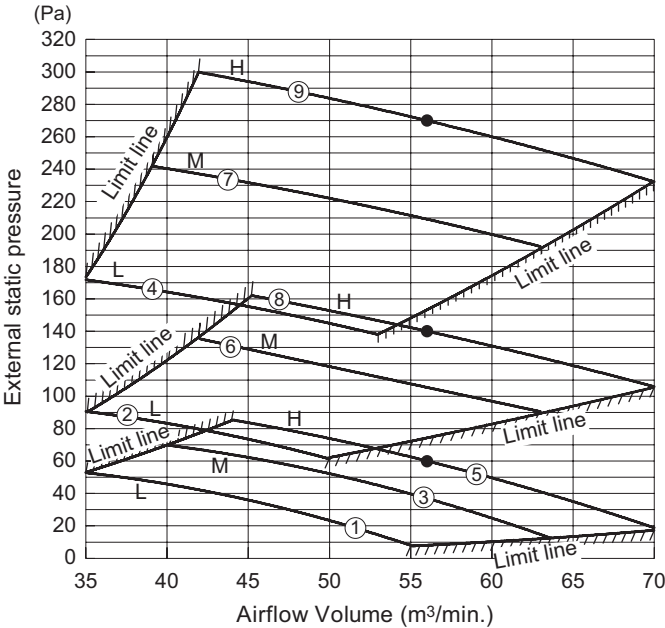
7-6. Indoor Fan Performance

			Tap								
			①	②	③	④	⑤	⑥	⑦	⑧	⑨
Item code "5d"	0006	Cooling				L			M		H
		Heating				L			M		H
	0003	Cooling	L					M		H	
		Heating	L					M		H	
	0001	Cooling	L		M		H				
		Heating	L		M		H				

Type 180



Type 224



Type 280

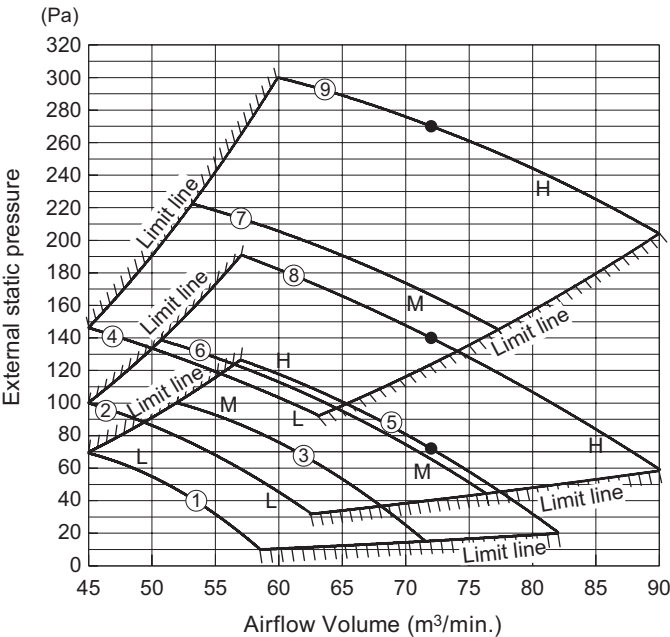
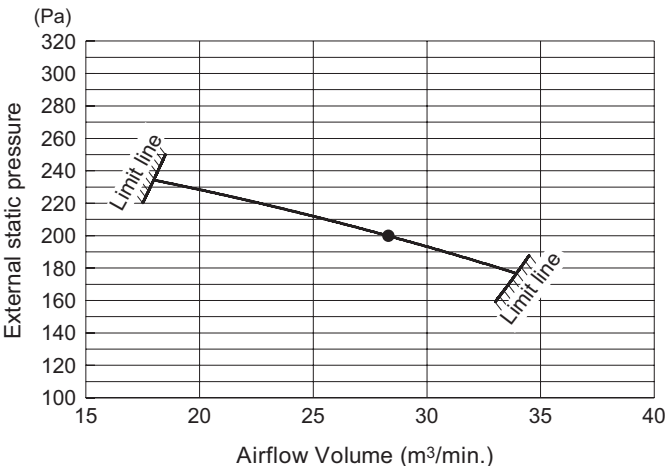


Fig. 4-3

● In the case of Fresh Air Intake Mode

Type 224



Type 280

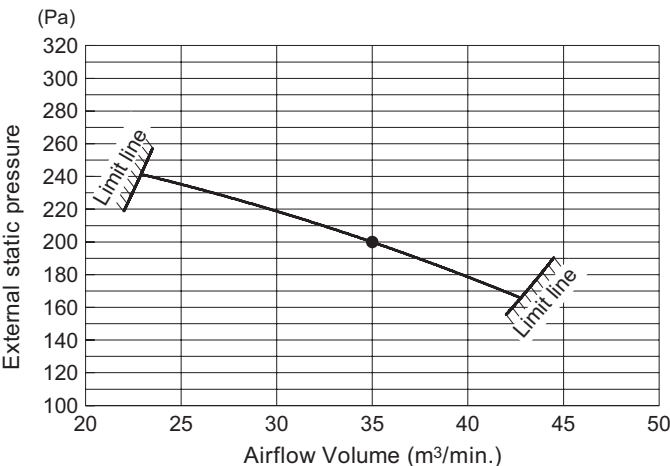


Fig. 4-4

7. High Static Pressure Ducted Type (Type E2)

7-7. External Static Pressure Setting

Choose one of the methods (selection of “a”, “b”, “c” within the range of dotted line as shown in the flowchart below) and make settings.

a. No setting changes:

When using as it is factory preset at shipment.

(If resetting after external static pressure setting once, it might be different from factory preset.)

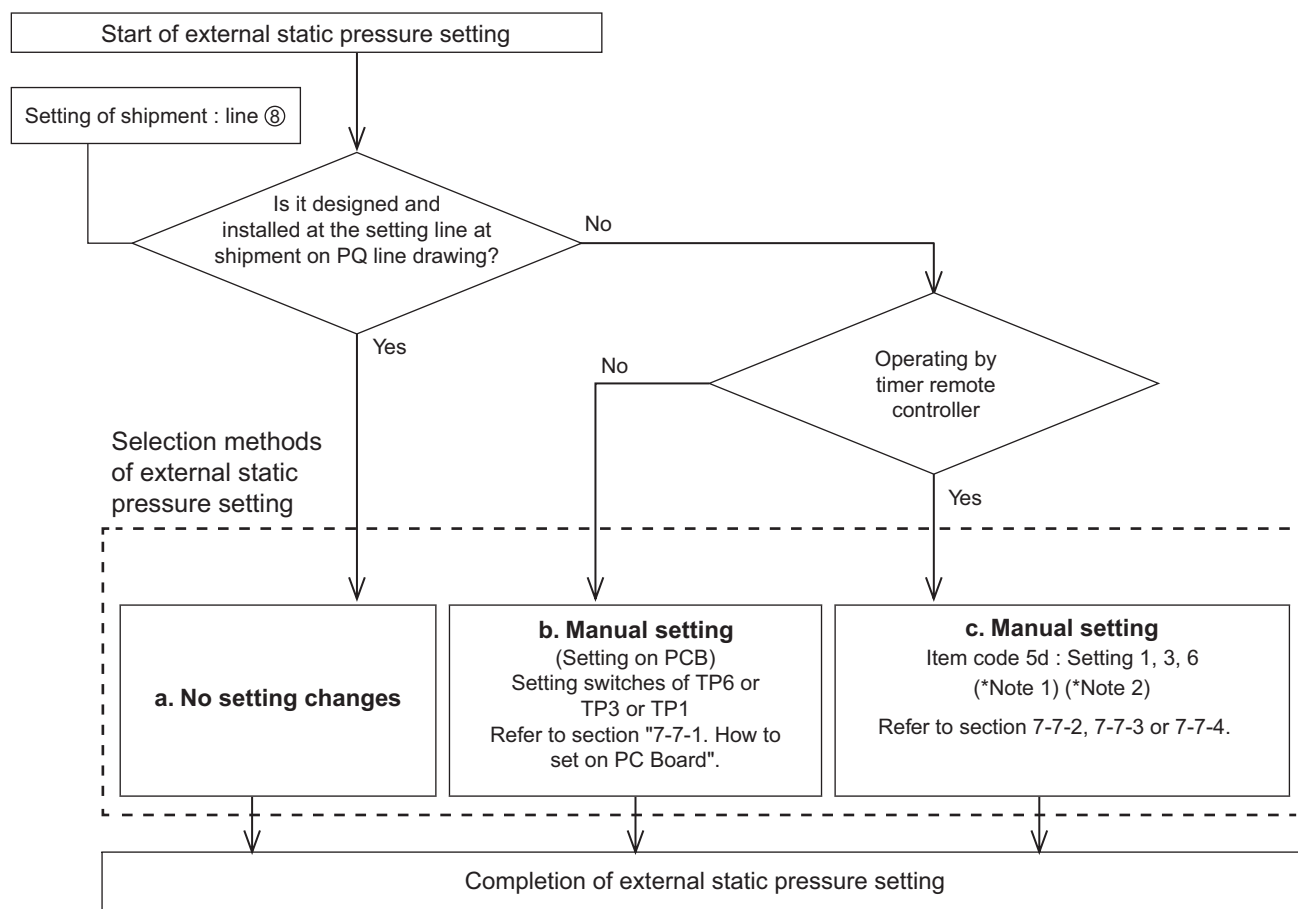
b. Manual setting (on PCB):

This is static pressure setting excepting factory preset at shipment. Dip switch select method.

c. Manual setting (by timer remote controller):

Static pressure setting excepting factory preset at shipment.

Flow of External Static Pressure



NOTE

(1) Refer to Table 4-6, 4-7, 4-8 and Fig. 4-3 for details on the relationship between the value of item code “5d” and the external static pressure.

(2) When set in group control (connecting multiple indoor units with one timer remote controller), set each indoor unit to item code “5d”.

When amending the setting after selecting [b. Manual setting] (due to airflow path changes, etc.), it is necessary to cancel [b. Manual setting] (switching OFF positions).

When [b. Manual setting] has not been cancelled, [c. Manual setting] will be activated if selected, but [b. Manual setting] takes precedence when the power is switched back on after power outages, etc.

CAUTION

● Make sure the external static pressure is in a range of specifications.

Then proceed the external static pressure setting.

Improper settings can cause noise, a shortage of airflow volume and water leakage.

Refer to Fig. 4-3 for the external static pressure setting range.

● Be sure to set the [External Static Pressure Setting] once again after amending the airflow path for the duct or air outlet after setting the external static pressure.

7. High Static Pressure Ducted Type (Type E2)

7-7-1. Indoor Fan Performance

1. Turn off the power breaker to halt the supply of electricity to the PC board.
2. Open the lid of the electrical component box and confirm the location where the Select switch on the indoor unit control PCB is placed. (Fig. 4-5)
3. Set the On/Off switches in the Off position which are now set in the On position.
Select the positions of the Select SW001 switches respectively to make the desired external static pressure settings referring to the Table 4-5.

Table 4-5 External static pressure SW setting

External static pressure at the time of rated airflow volume			SW001		
Type 180	Type 224	Type 280	TP6	TP3	TP1
270Pa	270Pa	270Pa	ON 1	2	3
140Pa	140Pa	140Pa	1	ON 2	3
60Pa	60Pa	72Pa	1	2	ON 3

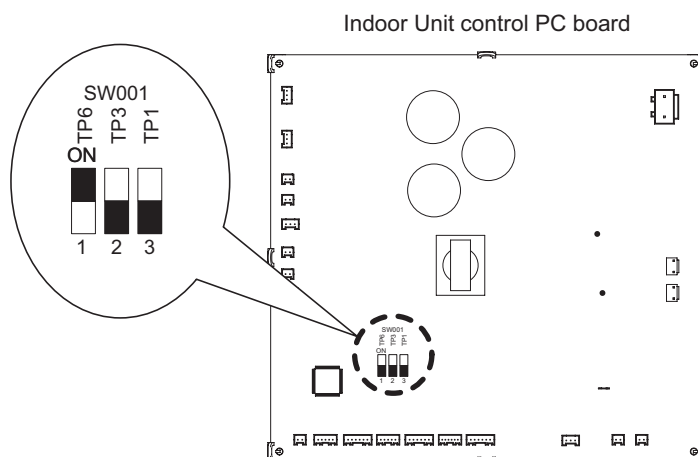


Fig. 4-5

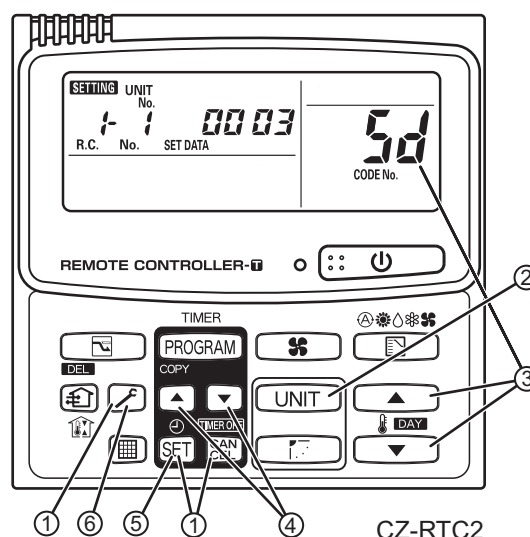
7-7-2. Operating the Timer Remote Controller (CZ-RTC2)

How to set the external static pressure

1. Press and hold down the (CAN CEL) and buttons simultaneously for 4 or more seconds.
(**SETTING**, the Unit No., Item Code and Detailed will blink on the LCD display.)
2. The indoor unit numbers in the group control will be sequentially displayed whenever the Unit Select button is pressed .
Only the fan motor for the selected indoor unit will operate during this time.
3. Specify the "**5d**" item code by pressing the / buttons for the temperature setting buttons and confirm the values.
(**"00 03"** set at shipment)
4. Press the / buttons for the time to amend the values for the set data.
Refer to Table 4-6 and Fig. 4-3 and select a value **"00 06"**, **"00 03"** or **"00 01"**.
5. Press the button.
The display will stop blinking and remain illuminated.
6. Press the button. The fan motor will stop operating and the LCD display will return to the normal stop mode.

Table 4-6 Setting the external static pressure

Indoor unit			Item code
Type 180	Type 224	Type 280	5d
External static pressure of the rated airflow volume			
270 Pa	270 Pa	270 Pa	00 06
140 Pa	140 Pa	140 Pa	00 03
60 Pa	60 Pa	72 Pa	00 01



NOTE:

Failure to set this parameter may result in decreased airflow and condensation.

7. High Static Pressure Ducted Type (Type E2)

7-7-3. Operating the High-spec Wired Remote Controller (CZ-RTC3)



How to set the external static pressure

1. Keep pressing the , and buttons simultaneously for 4 or more seconds. The "Maintenance func" screen appears on the LCD display.

Maintenance func	20:30 (THU)
1. Outdoor unit error data	
2. Service contact	
3. RC setting mode	
4. Test run	
◀ Sel. ▶ Page [↩] Confirm	

2. Press the or button to see each menu. If you wish to see the next screen instantly, press the or button. Select "8. Detailed settings" on the LCD display and press the button.

Maintenance func	20:30 (THU)
5. Sensor info.	
6. Servicing check	
7. Simple settings	
8. Detailed settings	
◀ Sel. ▶ Page [↩] Confirm	

The "Detailed settings" screen appears on the LCD display.

Select the "Unit no." by pressing the or button for changes.

Detailed settings		20:30 (THU)
Unit no.	Code no.	Set data
3-1	10	0006
◀ Sel. ▶ Next		

3. Select the "Code no." by pressing the or button.
Change the "Code no." to "5D" by pressing the or button (or keeping it pressed).

Detailed settings		20:30 (THU)
Unit no.	Code no.	Set data
3-1	5D	0001
◀ Sel. ▶ Next		

4. Select the "Set data" by pressing the or button.
Select one of the "Set data" among "0006", "0003" or "0001" according to the desired external static pressure setting by pressing the or button.
Then press the button.
(See Table 4-7 and Fig. 4-5.)
Then press the button.

Table 4-7 Setting the external static pressure

Indoor unit			Item code
Type 180	Type 224	Type 280	
External static pressure of the rated air flow volume			5D
270 Pa	270 Pa	270 Pa	0006
140 Pa	140 Pa	140 Pa	0003
60 Pa	60 Pa	72 Pa	0001

5. Select the "Unit no." by pressing the or button and press the button. The "Exit detailed settings and restart?" (Detailed setting-end) screen appears on the LCD display. Select "YES" and press the button.

Exit detailed settings and restart?
YES ▶ NO
◀ Sel. ▶ Next

7. High Static Pressure Ducted Type (Type E2)

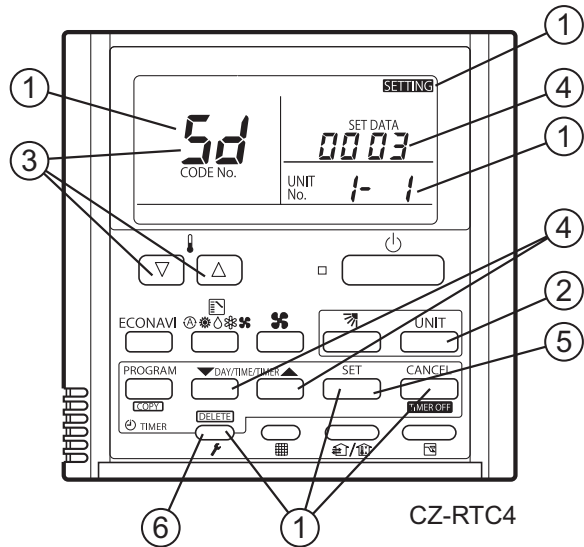
7-7-4. Operating the Timer Remote Controller (CZ-RTC4)

How to set the external static pressure

- Press and hold down the ,  and  buttons simultaneously for 4 or more seconds.
(**SETTING**, the Unit No., Item Code and Detailed Data will blink on the LCD display.)
- The indoor unit numbers in the group control will be sequentially displayed whenever the Unit Select button is pressed .
Only the fan motor for the selected indoor unit will operate during this time.
- Specify the “**5d**” item code by pressing the / buttons for the temperature setting buttons and confirm the values.
(“**0003**” set at shipment)
- Press the  /  buttons for the time to amend the values for the set data.
Refer to Table 4-8 and Fig. 4-3 and select a value “**0006**”, “**0003**” or “**0001**”.
- Press the  button.
The display will stop blinking and remain illuminated.
- Press the  button. The fan motor will stop operating and the LCD display will return to the normal stop mode.

Table 4-8 Setting the external static pressure

Indoor unit			Item code
Type 180	Type 224	Type 280	
External static pressure of the rated airflow volume			5d
270 Pa	270 Pa	270 Pa	0006
140 Pa	140 Pa	140 Pa	0003
60 Pa	60 Pa	72 Pa	0001



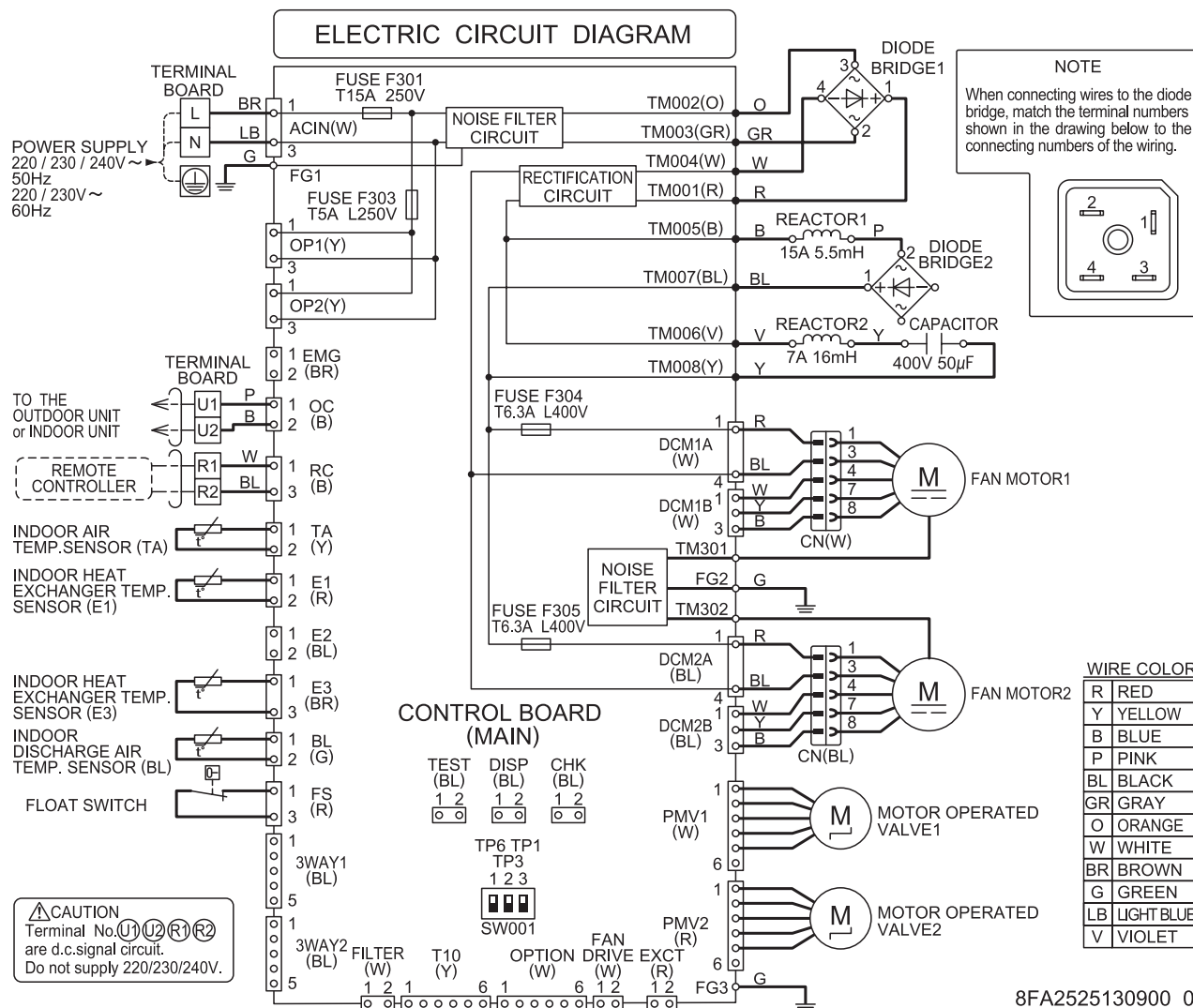
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6. High Static Pressure Ducted

(1) Electric Wiring Diagram S-180ME2E5 / 224ME2E5 / 280ME2E5



1. Cooling Capacity of Indoor Unit

For 2WAY VRF SYSTEM

● S-224ME2E5

Power supply :220/230/240V 1phase-50Hz , 220/230V 1phase-60Hz TC : Total Cooling Capacity (kW), SHC : Sensible Heat Capacity (kW)
This data is when the indoor unit connects with 16HP outdoor unit.

RATING CAPACITY:		22.4 kW AIR FLOW RATE : 56.0 m³/min															
EVAPORATOR		CONDENSER															
AIR INTAKE TEMP		AMBIENT TEMP.(°C)															
W.B.	D.B.		15	17	19	21	23	25	27	29	31	33	35	37	39	41	43
14		TC	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9
	21	SHC	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3
	23	SHC	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8
	25	SHC	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9
	27	SHC	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9
15		TC	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4
	21	SHC	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1
	23	SHC	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6
	25	SHC	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1
	27	SHC	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4
16		TC	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9
	21	SHC	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8
	23	SHC	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3
	25	SHC	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8
	27	SHC	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3
17		TC	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4
	21	SHC	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5
	23	SHC	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0
	25	SHC	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5
	27	SHC	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0
18		TC	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9
	21	SHC	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1
	23	SHC	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6
	25	SHC	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2
	27	SHC	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7
19		TC	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4
	21	SHC	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7
	23	SHC	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2
	25	SHC	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8
	27	SHC	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3
20		TC	23.9	23.9	23.9	23.9	23.9	23.9	23.9	23.9	23.9	23.9	23.9	23.9	23.9	23.8	23.4
	23	SHC	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.6
	25	SHC	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.1
	27	SHC	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.8	14.6
	29	SHC	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.3	16.2
21		TC	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.0	24.3	23.9
	23	SHC	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.2	10.8	10.6
	25	SHC	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.7	12.3	12.2
	27	SHC	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.2	13.8	13.7
	29	SHC	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.8	15.4	15.2
22		TC	26.9	26.9	26.9	26.9	26.9	26.9	26.9	26.9	26.9	26.9	26.9	26.3	25.5	24.8	24.4
	25	SHC	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.0	11.7	11.4	11.2
	27	SHC	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.6	13.2	12.9	12.8
	29	SHC	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.1	14.8	14.4	14.3
	31	SHC	16.9	16.9	16.9	16.9	16.9	16.9	16.9	16.9	16.9	16.9	16.9	16.6	16.3	16.0	15.8
23		TC	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	27.6	26.8	26.0	25.3	24.9
	25	SHC	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.4	11.1	10.7	10.4	10.3
	27	SHC	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.0	12.6	12.3	11.9	11.8
	29	SHC	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.5	14.1	13.8	13.5	13.3
	31	SHC	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.0	15.7	15.3	15.0	14.8

1. Cooling Capacity of Indoor Unit

For 2WAY VRF SYSTEM

● S-280ME2E5

Power supply :220/230/240V 1phase-50Hz , 220/230V 1phase-60Hz TC : Total Cooling Capacity (kW), SHC : Sensible Heat Capacity (kW)
This data is when the indoor unit connects with 16HP outdoor unit.

RATING CAPACITY:		28.0 kW AIR FLOW RATE : 72.0 m ³ /min															
EVAPORATOR		CONDENSER															
AIR INTAKE TEMP		AMBIENT TEMP. (°C)															
W.B.	D.B.		15	17	19	21	23	25	27	29	31	33	35	37	39	41	43
14		TC	18.7	18.7	18.7	18.7	18.7	18.7	18.7	18.7	18.7	18.7	18.7	18.7	18.7	18.7	18.7
	21	SHC	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0
	23	SHC	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0
	25	SHC	18.7	18.7	18.7	18.7	18.7	18.7	18.7	18.7	18.7	18.7	18.7	18.7	18.7	18.7	18.7
	27	SHC	18.7	18.7	18.7	18.7	18.7	18.7	18.7	18.7	18.7	18.7	18.7	18.7	18.7	18.7	18.7
15		TC	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5
	21	SHC	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7
	23	SHC	17.7	17.7	17.7	17.7	17.7	17.7	17.7	17.7	17.7	17.7	17.7	17.7	17.7	17.7	17.7
	25	SHC	19.6	19.6	19.6	19.6	19.6	19.6	19.6	19.6	19.6	19.6	19.6	19.6	19.6	19.6	19.6
	27	SHC	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5
16		TC	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4
	21	SHC	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4
	23	SHC	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3
	25	SHC	19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3
	27	SHC	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3
17		TC	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3
	21	SHC	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
	23	SHC	16.9	16.9	16.9	16.9	16.9	16.9	16.9	16.9	16.9	16.9	16.9	16.9	16.9	16.9	16.9
	25	SHC	18.9	18.9	18.9	18.9	18.9	18.9	18.9	18.9	18.9	18.9	18.9	18.9	18.9	18.9	18.9
	27	SHC	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9
18		TC	26.1	26.1	26.1	26.1	26.1	26.1	26.1	26.1	26.1	26.1	26.1	26.1	26.1	26.1	26.1
	21	SHC	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5
	23	SHC	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5
	25	SHC	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5
	27	SHC	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4
19		TC	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0
	21	SHC	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0
	23	SHC	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0
	25	SHC	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9
	27	SHC	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9
20		TC	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9
	23	SHC	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.3	15.1
	25	SHC	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.3	17.1
	27	SHC	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.3	19.1
	29	SHC	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.0
21		TC	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.3	30.4	29.9
	23	SHC	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.6	14.1	13.9
	25	SHC	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.5	16.1	15.9
	27	SHC	18.8	18.8	18.8	18.8	18.8	18.8	18.8	18.8	18.8	18.8	18.8	18.8	18.5	18.1	17.8
	29	SHC	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.5	20.0	19.8
22		TC	33.6	33.6	33.6	33.6	33.6	33.6	33.6	33.6	33.6	33.6	33.6	32.8	31.9	31.0	30.5
	25	SHC	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1	15.7	15.3	14.8	14.6
	27	SHC	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	17.7	17.3	16.8	16.6
	29	SHC	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	19.7	19.2	18.8	18.6
	31	SHC	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1	21.7	21.2	20.8	20.6
23		TC	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5	34.5	33.5	32.5	31.6	31.1
	25	SHC	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	14.9	14.4	14.0	13.5	13.4
	27	SHC	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4	16.9	16.4	16.0	15.6	15.3
	29	SHC	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4	18.9	18.4	18.0	17.6	17.3
	31	SHC	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	20.9	20.4	20.0	19.5	19.3

1. Cooling Capacity of Indoor Unit

For 2WAY VRF SYSTEM

● S-224ME2E5 Fresh Air Intake Mode

Power supply : 220/230/240V 1phase-50Hz , 220/230V 1phase-60Hz

TC : Total Cooling Capacity (kW), SHC : Sensible Heat Capacity (kW)

This data is when the indoor unit connects with 16HP outdoor unit.

RATING CAPACITY:		22.4 kW				28.3 m³/min							
EVAPORATOR		CONDENSER AMBIENT TEMP. (°C)											
AIR INTAKE TEMP													
W.B.			23	25	27	29	31	33	35	37	39	41	43
22	TC	7.9	8.2	8.4	8.5	8.6	8.7	9.8	11.0	12.1	13.3	14.4	
	SHC	2.9	4.1	5.2	6.4	7.5	8.7	9.8	11.0	12.1	13.3	14.4	
24	TC	-	12.0	12.4	12.5	12.5	12.6	12.8	12.8	12.8	13.3	14.4	
	SHC	-	4.1	5.2	6.4	7.5	8.7	9.8	11.0	12.1	13.3	14.4	
26	TC	-	-	16.9	16.9	17.1	17.1	17.2	17.2	17.2	17.2	17.2	
	SHC	-	-	5.2	6.4	7.5	8.7	9.8	11.0	12.1	13.3	14.4	
28	TC	-	-	-	22.0	22.1	22.4	21.8	21.2	20.6	20.0	19.5	
	SHC	-	-	-	6.4	7.5	8.7	9.8	10.6	11.4	12.0	12.7	
30	TC	-	-	-	-	23.9	23.2	22.6	22.0	21.4	20.8	20.2	
	SHC	-	-	-	-	6.4	7.3	8.1	8.8	9.4	10.0	10.4	
32	TC	-	-	-	-	-	24.0	23.4	22.8	22.1	21.5	21.0	
	SHC	-	-	-	-	-	5.9	6.8	7.4	7.9	8.5	8.9	

● S-280ME2E5 Fresh Air Intake Mode

Power supply : 220/230/240V 1phase-50Hz , 220/230V 1phase-60Hz

TC : Total Cooling Capacity (kW), SHC : Sensible Heat Capacity (kW)

This data is when the indoor unit connects with 16HP outdoor unit.

RATING CAPACITY:		28.0 kW		35.0 m³/min									
EVAPORATOR		CONDENSER AMBIENT TEMP. (°C)											
AIR INTAKE. TEMP													
W.B.			23	25	27	29	31	33	35	37	39	41	43
22	TC	9.8	10.1	10.5	10.6	10.6	10.8	12.2	13.6	15.0	16.5	17.9	
	SHC	3.6	5.1	6.5	7.9	9.3	10.8	12.2	13.6	15.0	16.5	17.9	
24	TC	-	14.8	15.4	15.5	15.6	15.6	15.8	15.8	15.8	16.5	17.9	
	SHC	-	5.1	6.5	7.9	9.3	10.8	12.2	13.6	15.0	16.5	17.9	
26	TC	-	-	21.0	21.0	21.2	21.3	21.4	21.3	21.5	21.4	21.3	
	SHC	-	-	6.5	7.9	9.3	10.8	12.2	13.6	15.0	16.5	17.9	
28	TC	-	-	-	27.3	27.4	28.0	27.1	26.5	25.7	25.0	24.3	
	SHC	-	-	-	7.9	9.3	10.8	12.2	13.3	14.1	15.2	15.7	
30	TC	-	-	-	-	29.7	29.0	28.2	27.4	26.7	26.0	25.2	
	SHC	-	-	-	-	7.9	9.1	10.1	10.9	11.7	12.4	13.1	
32	TC	-	-	-	-	-	30.0	29.2	28.4	27.7	26.9	26.2	
	SHC	-	-	-	-	-	7.3	8.5	9.4	10.0	10.7	11.3	

2. Cooling Capacity of Indoor Unit

For 3WAY VRF SYSTEM

● S-224ME2E5

Power supply :220/230/240V 1phase-50Hz , 220/230V 1phase-60Hz TC : Total Cooling Capacity (kW) SHC : Sensible Heat Capacity (kW)

This data is when the indoor unit connects with 14HP outdoor unit.

RATING CAPACITY:		22.4 kW AIR FLOW RATE : 56.0 m ³ /min																
EVAPORATOR		CONDENSER																
AIR INTAKE TEMP		AMBIENT TEMP. (°C)																
W.B.	D.B.		15	17	19	21	23	25	27	29	31	33	35	37	39	41	43	46
14		TC	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9
	21	SHC	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3
	23	SHC	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8
	25	SHC	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9
	27	SHC	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9
15		TC	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.0
	21	SHC	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	11.8
	23	SHC	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.3
	25	SHC	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	14.7
	27	SHC	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.0
16		TC	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9	16.0
	21	SHC	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	10.6
	23	SHC	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	11.9
	25	SHC	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	13.3
	27	SHC	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3	14.6
17		TC	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4	16.0
	21	SHC	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	9.5
	23	SHC	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	10.7
	25	SHC	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	12.0
	27	SHC	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	13.2
18		TC	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.3	16.0
	21	SHC	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	10.8	8.5
	23	SHC	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.3	9.7
	25	SHC	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	13.8	10.9
	27	SHC	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.2	12.0
19		TC	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4	20.3	16.0
	21	SHC	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	9.7	7.7
	23	SHC	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	11.1	8.8
	25	SHC	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	12.5	9.9
	27	SHC	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3	13.9	10.9
20		TC	23.9	23.9	23.9	23.9	23.9	23.9	23.9	23.9	23.9	23.9	23.9	23.9	23.9	23.2	20.3	16.0
	23	SHC	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.5	10.1	7.9
	25	SHC	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.0	11.4	9.0
	27	SHC	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.5	12.7	10.0
	29	SHC	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.0	14.0	11.1
21		TC	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.0	23.2	20.3	16.0
	23	SHC	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.1	10.4	9.0	7.1
	25	SHC	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.7	11.8	10.3	8.2
	27	SHC	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.2	13.2	11.6	9.2
	29	SHC	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.7	14.7	12.9	10.2
22		TC	26.9	26.9	26.9	26.9	26.9	26.9	26.9	26.9	26.9	26.9	26.8	26.4	25.5	23.2	20.3	16.0
	25	SHC	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.3	12.1	11.7	10.7	9.3	7.4
	27	SHC	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.8	13.7	13.2	12.1	10.6	8.4
	29	SHC	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.3	15.2	14.8	13.5	11.9	9.4
	31	SHC	16.9	16.9	16.9	16.9	16.9	16.9	16.9	16.9	16.9	16.9	16.8	16.7	16.3	15.0	13.1	10.4
23		TC	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	27.8	26.9	26.1	23.2	20.3	16.0
	25	SHC	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.5	11.1	10.8	9.6	8.4	6.6
	27	SHC	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.1	12.7	12.3	11.0	9.6	7.6
	29	SHC	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.6	14.2	13.8	12.4	10.8	8.6
	31	SHC	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.1	15.8	15.4	13.8	12.1	9.6

2. Cooling Capacity of Indoor Unit

For 3WAY VRF SYSTEM

● S-280ME2E5

Power supply :220/230/240V 1phase-50Hz , 220/230V 1phase-60Hz TC : Total Cooling Capacity (kW) SHC : Sensible Heat Capacity (kW)

This data is when the indoor unit connects with 14HP outdoor unit.

RATING CAPACITY:		28.0 kW AIR FLOW RATE : 72.0 m³/min																
EVAPORATOR		CONDENSER																
AIR INTAKE TEMP		AMBIENT TEMP. (°C)																
W.B.	D.B.		15	17	19	21	23	25	27	29	31	33	35	37	39	41	43	46
14		TC	18.7	18.7	18.7	18.7	18.7	18.7	18.7	18.7	18.7	18.7	18.7	18.7	18.7	18.7	18.7	18.7
	21	SHC	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0
	23	SHC	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0
	25	SHC	18.7	18.7	18.7	18.7	18.7	18.7	18.7	18.7	18.7	18.7	18.7	18.7	18.7	18.7	18.7	18.7
	27	SHC	18.7	18.7	18.7	18.7	18.7	18.7	18.7	18.7	18.7	18.7	18.7	18.7	18.7	18.7	18.7	18.7
15		TC	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.0
	21	SHC	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.3
	23	SHC	17.7	17.7	17.7	17.7	17.7	17.7	17.7	17.7	17.7	17.7	17.7	17.7	17.7	17.7	17.7	17.3
	25	SHC	19.6	19.6	19.6	19.6	19.6	19.6	19.6	19.6	19.6	19.6	19.6	19.6	19.6	19.6	19.6	19.2
	27	SHC	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.0
16		TC	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4	20.0
	21	SHC	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	13.8
	23	SHC	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	15.5
	25	SHC	19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3	17.3
	27	SHC	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3	19.0
17		TC	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3	20.0
	21	SHC	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	12.4
	23	SHC	16.9	16.9	16.9	16.9	16.9	16.9	16.9	16.9	16.9	16.9	16.9	16.9	16.9	16.9	16.9	14.0
	25	SHC	18.9	18.9	18.9	18.9	18.9	18.9	18.9	18.9	18.9	18.9	18.9	18.9	18.9	18.9	18.9	15.6
	27	SHC	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	17.3
18		TC	26.1	26.1	26.1	26.1	26.1	26.1	26.1	26.1	26.1	26.1	26.1	26.1	26.1	26.1	25.4	20.0
	21	SHC	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.1	11.1
	23	SHC	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.0	12.7
	25	SHC	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	17.9	14.2
	27	SHC	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	19.9	15.7
19		TC	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	25.4	20.0
	21	SHC	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	12.7	10.0
	23	SHC	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	14.5	11.4
	25	SHC	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9	16.3	12.8
	27	SHC	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9	18.1	14.3
20		TC	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.0	20.0
	23	SHC	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.0	13.1	10.4
	25	SHC	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4	16.9	14.8	11.7
	27	SHC	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4	18.9	16.5
	29	SHC	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3	20.8	18.2	14.5
21		TC	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.2	29.0	25.4	20.0
	23	SHC	14.8	16.2	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.5	13.5	11.8	9.3
	25	SHC	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.5	15.4	13.5	10.6
	27	SHC	18.8	18.8	18.8	18.8	18.8	18.8	18.8	18.8	18.8	18.8	18.8	18.8	18.5	17.3	15.1	12.0
	29	SHC	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.5	19.2	16.8	13.4
22		TC	33.6	33.6	33.6	33.6	33.6	33.6	33.6	33.6	33.6	33.6	33.5	33.0	31.9	29.0	25.4	20.0
	25	SHC	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.0	15.8	15.3	13.9	12.2	9.6
	27	SHC	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.0	17.8	17.3	15.8	13.8
	29	SHC	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.0	19.8	19.2	17.6	15.5
	31	SHC	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.0	21.8	21.2	19.5	17.1
23		TC	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5	34.7	33.6	32.6	29.0	25.4	20.0
	25	SHC	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.0	14.5	14.0	12.4	10.9	8.6
	27	SHC	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.0	16.5	16.0	14.3	12.5	9.9
	29	SHC	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.0	18.5	18.0	16.2	14.1	11.2
	31	SHC	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.0	20.5	20.0	18.0	15.8	12.5

2. Cooling Capacity of Indoor Unit

For 3WAY VRF SYSTEM

● S-224ME2E5 Fresh Air Intake Mode

Power supply : 220/230/240V 1phase-50Hz , 220/230V 1phase-60Hz

TC : Total Cooling Capacity (kW), SHC : Sensible Heat Capacity (kW)

This data is when the indoor unit connects with 14HP outdoor unit.

RATING CAPACITY:		22.4 kW				28.3 m³/min									
EVAPORATOR		CONDENSER AMBIENT TEMP. (°C)													
AIR INTAKE. TEMP															
W.B.			23	25	27	29	31	33	35	37	39	41	43	46	
22	TC	7.9	8.2	8.4	8.5	8.6	8.7	9.8	11.0	12.1	13.3	14.4	11.5		
	SHC	2.9	4.1	5.2	6.4	7.5	8.7	9.8	11.0	12.1	13.3	14.4	11.4		
24	TC	-	12.0	12.4	12.5	12.5	12.6	12.8	12.8	12.8	13.3	14.4	11.5		
	SHC	-	4.1	5.2	6.4	7.5	8.7	9.8	11.0	12.1	13.3	14.4	11.4		
26	TC	-	-	16.9	16.9	17.1	17.1	17.2	17.2	17.2	17.2	17.2	11.5		
	SHC	-	-	5.2	6.4	7.5	8.7	9.8	11.0	12.1	13.3	14.4	10.9		
28	TC	-	-	-	22.0	22.1	22.4	21.8	21.2	20.6	20.0	19.5	11.5		
	SHC	-	-	-	6.4	7.5	8.7	9.8	10.6	11.4	12.0	12.7	8.3		
30	TC	-	-	-	-	23.9	23.2	22.6	22.0	21.4	20.8	20.2	11.5		
	SHC	-	-	-	-	6.4	7.3	8.1	8.8	9.4	10.0	10.4	6.6		
32	TC	-	-	-	-	-	24.0	23.4	22.8	22.1	21.5	21.0	11.5		
	SHC	-	-	-	-	-	5.9	6.8	7.4	7.9	8.5	8.9	5.5		

● S-280ME2E5 Fresh Air Intake Mode

Power supply : 220/230/240V 1phase-50Hz , 220/230V 1phase-60Hz

TC : Total Cooling Capacity (kW), SHC : Sensible Heat Capacity (kW)

This data is when the indoor unit connects with 14HP outdoor unit.

RATING CAPACITY:		28.0 kW 35.0 m³/min												
EVAPORATOR		CONDENSER AMBIENT TEMP. (°C)												
AIR INTAKE TEMP														
W.B.			23	25	27	29	31	33	35	37	39	41	43	46
22	TC	9.8	10.1	10.5	10.6	10.6	10.8	12.2	13.6	15.0	16.5	17.9	14.1	
	SHC	3.6	5.1	6.5	7.9	9.3	10.8	12.2	13.6	15.0	16.5	17.9	14.1	
24	TC	-	14.8	15.4	15.5	15.6	15.6	15.8	15.8	15.8	16.5	17.9	14.2	
	SHC	-	5.1	6.5	7.9	9.3	10.8	12.2	13.6	15.0	16.5	17.9	14.2	
26	TC	-	-	21.0	21.0	21.2	21.3	21.4	21.3	21.5	21.4	21.3	14.4	
	SHC	-	-	6.5	7.9	9.3	10.8	12.2	13.6	15.0	16.5	17.9	13.6	
28	TC	-	-	-	27.3	27.4	28.0	27.1	26.5	25.7	25.0	24.3	14.4	
	SHC	-	-	-	7.9	9.3	10.8	12.2	13.3	14.1	15.2	15.7	10.5	
30	TC	-	-	-	-	29.7	29.0	28.2	27.4	26.7	26.0	25.2	14.4	
	SHC	-	-	-	-	7.9	9.1	10.1	10.9	11.7	12.4	13.1	9.0	
32	TC	-	-	-	-	-	30.0	29.2	28.4	27.7	26.9	26.2	14.4	
	SHC	-	-	-	-	-	7.3	8.5	9.4	10.0	10.7	11.3	6.9	