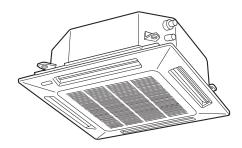
Panasonic

TECHNICAL DATA & SERVICE MANUAL





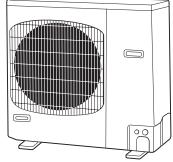
Indoor Unit



Shows S-26PU1U6



Outdoor Unit



Shows U-26PE1U6

(Outdoor Units	No	ominal Capac	ity	
Type	Outdoor Units	26	36	42	Remarks
U	Cingle	U-26PE1U6	U-36PE1U6	U-42PE1U6	Cooling/Heating
	Single	U-26PS1U6	U-36PS1U6	U-42PS1U6	Cooling

	Indoor Units	No	ominal Capac	ity	
Туре	Indoor Units Type	26	36	42	Remarks
U1	4-Way Cassette	S-26PU1U6	S-36PU1U6	S-42PU1U6	with Wired Remote Controller: CZ-RTC2
K1	Wall Mounted	S-26PK1U6			with Wireless Remote Controller: CZ-RWSK1U
T1	Ceiling	S-26PT1U6	S-36PT1U6	S-42PT1U6	with Wired Remote Controller: CZ-RTC2
F1	Low Silhouette Ducted	S-26PF1U6	S-36PF1U6		with Wired Remote Controller: CZ-RTC2
F2	Concealed Duct	S-26PF2U6	S-36PF2U6		
U2	4-Way Cassette 36" × 36"	S-26PU2U6 (CZ-36KPU3U)*	S-36PU2U6 (CZ-36KPU3U)*	S-42PU2U6 (CZ-36KPU3U)*	
K2	Wall Mounted	S-26PK2U6			
T2	Ceiling	S-26PT2U6	S-36PT2U6	S-42PT2U6	

^{*} Panel (optional parts)

Model No.

IMPORTANT! Please Read Before Starting

This air conditioning system meets strict safety and operating standards. As the installer or service person, it is an important part of your job to install or service the system so it operates safely and efficiently.

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 PRECAUTIONS



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.
- · Ground the unit following local electrical codes.
- 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.
- 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 5 feet (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.

When Connecting Refrigerant Tubing

- · Pay particular attention to refrigerant leakages.
- Ventilate the room immediately, 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 toxic gas.
- · Keep all tubing runs as short as possible.
- 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.



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.
- If the refrigerant comes in contact with a flame, it produces a toxic gas.
- Do not add or replace refrigerant other than specified type. It may cause product damage, burst and injury etc.

i

 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.



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 to the sales dealer or service dealer for a 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. Leaked 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 toxic 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.



NOTICE

• This device complies with part 15 of the FCC Rules.

Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.
- This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.
- FCC Caution: To assure continued compliance, follow the attached installation instructions.
 Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

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, energy conservation by curtailing heat and carrying power, etc.

Most importantly, the multi air conditioner system is able

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).

ASHRAE and the International Mechanical Code of the ICC as well as CSA provide guidance and define safeguards related to the use of refrigerants, all of which define a Refrigerant Concentration Level (RCL) of 25 pounds per 1,000 cubic feet for R410A refrigerant.

For additional guidance and precautions related to refrigerant safety, please refer to the following documents:

International Mechanical Code 2012 (IMC-2012) (or more recently revised) ASHRAE 15 ASHRAE 34

Precautions for Installation Using New Refrigerant

1. Care regarding tubing

- 1-1. Process tubing
- Material: Use C1220 phosphorous deoxidized copper specified in JIS H3300 "Copper and Copper Alloy Seamless Pipes and Tubes."
- Tubing size: Be sure to use the sizes indicated in the table below.
- Use a tube cutter when cutting the tubing, and be sure to remove any flash. This also applies to distribution joints (optional).
- When bending tubing ø5/8" or smaller, use a bending radius that is 4 times the outer diameter of the tubing or larger.



Use sufficient care in handling the tubing. Seal the tubing ends with caps or tape to prevent dirt, moisture, or other foreign substances from entering. These substances can result in system malfunction.

					Unit: inch
Ma	nterial		C)	
Connor tubo	Outer diameter	1/4	3/8	1/2	5/8
Copper tube	Wall thickness	t0.032	t0.032	t0.032	t0.04

1-2. Prevent impurities including water, dust and oxide from entering the tubing. Impurities can cause R410A refrigerant deterioration and compressor defects. Due to the features of the refrigerant and refrigerating machine oil, the prevention of water and other impurities becomes more important than ever.

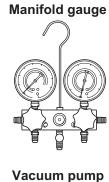
2. Be sure to recharge the refrigerant only in liquid form.

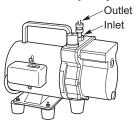
- 2-1. Since R410A is a non-azeotrope, recharging the refrigerant in gas form can lower performance and cause defects of the unit.
- 2-2. Since refrigerant composition changes and performance decreases when gas leaks, collect the remaining refrigerant and recharge the required total amount of new refrigerant after fixing the leak.

3. Different tools required

3-1. Tool specifications have been changed due to the characteristics of R410A. Some tools for R22- and R407C-type refrigerant systems cannot be used.

Item	New tool?	R407C tools compatible with R410A?	Remarks
Manifold gauge	Yes	No	Types of refrigerant, refrigerating machine oil, and pressure gauge are different.
Charge hose	Yes	No	To resist higher pressure, material must be changed.
Vacuum pump	Yes	Yes	Use a conventional vacuum pump if it is equipped with a check valve. If it has no check valve, purchase and attach a vacuum pump adapter.
Leak detector	Yes	No	Leak detectors for CFC and HCFC that react to chlorine do not function because R410A contains no chlorine. Leak detector for HFC134a can be used for R410A.
Flaring oil	Yes	No	For systems that use R22, apply mineral oil (Suniso oil) to the flare nuts on the tubing to prevent refrigerant leakage. For machines that use R407C or R410A, apply synthetic oil (ether oil) to the flare nuts.





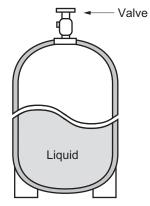
3-2. Use R410A exclusive cylinder only.

When charging with a refrigerant cylinder, use an electronic scale for charging refrigerant.
 In this case, if the volume of refrigerant in the cylinder becomes less than 20% of the fully-charged amount, the composition of the refrigerant starts to change.

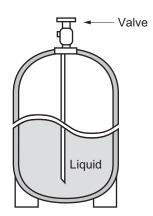
Thus, do not use the refrigerant if the amount in the charging cylinder is less than 20%.

Also, charge the minimum necessary amount to the charging cylinder before using it to charge the air conditioning unit.

Configuration and characteristics of cylinders



Single valve
Charge liquid refrigerant with
cylinder in up-side-down position.



Single valve (with siphon tube)
Charge with cylinder in normal position.

Fig. 2

Fig. 1

^{*} Using tools for R22 and R407C and new tools for R410A together can cause defects.

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- MEMO -

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Concealed Duct (Type F2)

PANEL MODEL OUTDOOR WIGHER FERFORMANCE TEST CONDITION FERFORMANCE TEST CONDITION POWER SUPPLY V. 288 230 286 230 Mm Max CAPACITY 1 BTUT A 0.95 0.99 15.6 14.2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5			INDOOR	MODI	EL		S-26PF2U6						
Branch pipe	<u> </u>												
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SEER			FFR		_ VV	_		_					
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DISCONNECT SWITCH CAPACITY (A)	\vdash				NI (A)							\\	
OUTDOOR FAN MOTOR AMPERES (A)	\vdash											 	
COMPRESSOR LOCKED-ROTÓR AMPERES (A) - 17.5	0								0.9 / 0.9		-	\	
COMPRESSOR RATED LOAD AMPERES (A)									10.1 / 12.9		-		
OUTDOOR HIGH SIDE MPa , psi. -	\vdash											 	
DESIGN PRESSURE	\vdash											\	
MOISTURE REMOVAL VOLUME L/h, Pints/h 2.2, 4.6		DESI			MPa , psi.								
Extarnal static pressure	\vdash	MO			L/h Dinto/h							 	
I/D AIR	\vdash	IVIC				70(min10 ~ ma		0.04 ~ max0.60)				,	
O/D AIR FLOW COOL HEAT m³/min, ft³/min (CFM) 50, 1766 REFRIGERANT TYPE, AMOUNT g, lb, (oz) R410A, - R410A, 1.90k, 4.2, (67.0) P D HEIGHT: H mm (inch) 290 (11-7/16) 780 (30-23/32) R I WIDTH: W mm (inch) 1000 (39-3/8) 940 (37) O M DEPTH: D mm (inch) 700 (27-9/16) 340 (13-3/8) P D HEIGHT: H mm (inch) 355 (13-31/32) 888 (34-31/32) A I WIDTH: W mm (inch) 1214 (47-13/16) 1015 (39-31/32) A I WIDTH: D mm (inch) 850 (33-15/32) 409 (16-3/32) MASS (RET) kg (lb) 33 (73) 58 (128) (GROSS) kg (lb) 40 (89) 67 (148) LAYERS LIMIT ID/OD (actually) 9 (10) 3 (4) Operation Condition Cool (DBT) 18°C ~ 32°C (64°F ~ 90°F) -10°C ~ 46°C (14°F ~ 115°F) Condition Heat (DBT) 16°C ~ 30°C (61°F ~ 86°F) -20°C ~ 24°C (4°F ~ 75°F) P PIPE DIAMETER mm (inch) (Liquid) 99.52 (3/8) (Gas) ø15.88 (5/8) (Liquid) ø9.52 (3/8) (Gas) ø15.88 (5/8) 16red type Flared type Flared type flared type STD LENGTH m (ft) 3 ~ 50 (10 ~ 165) <			COOL (H/M/L)	m ³ /min, ft ³ /m	nin (CFM)	21/1	9/15, 742/671	/530)
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R		Ŕ	EFRIGERANT TYPE,	AMOUNT g, lb, (- ,			A, 1.90k, 4.2,			
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PIPE DIAMETER mm (inch)	1												
CONNECT METHOD flared type flared type				ER mm (inch)	rical (DDT)								
PIPE LENGTH RANGE m (ft) 3 ~ 50 (10 ~ 165) I/D&O/D HEIGHT DIFFERENCE m (ft) 15 (OD located lower) /30 (OD located higher) (50/100) ADD GAS AMOUNT g/m (oz/ft) 40 (0.43)			CONNECT	METHOD							(5.0)		1
N I/D&O/D HEIGHT DIFFERENCE m (ft) 15 (OD located lower) /30 (OD located higher) (50/100) ADD GAS AMOUNT g/m (oz/ft) 40 (0.43)	P									·			
ADD GAS AMOUNT g/m (oz/ft) 40 (0.43)					(ft)	1,	5 (OD Incated			igher) (50/10	10)		
PIPE LENGTH FOR ADDITIONAL GAS m (ft) 30 (100)			ADD GAS AMO	UNT g/m (oz/ft)	` /		, 00 1000100	40 (0.43)	.5/101/ (00/10	·,		\
	٦	Р	PIPE LENGTH FOR AD	DITIONAL GAS	m (ft)			30 (100)				

^{*1:}Rating conditions : Room temperature 80 °F DB / 67 °F WB (26.7 °C DB / 19.4 °C WB), Ambient temperature 95 °F DB / 75 °F WB (35.0 °C DB / 23.9 °C WB).

^{*2:}Rating conditions : Room temperature 70 °F DB / 60 °F WB (21.1°C DB / 15.6°C WB), Ambient temperature 47 °F DB / 43 °F WB (8.3°C DB / 6.1°C WB).

^{*3:}Low temp conditions : Room temperature 70 °F DB / 60 °F WB (21.1°C DB / 15.6°C WB), Ambient temperature 17 °F DB / 15 °F WB (-8.3°C DB / -9.4°C WB).

^{*4:}INDOOR CURRENT="INDOOR FAN MOTOR LOAD"

Concealed Duct (Type F2)

		INDOOR	MOD			S-36PF2U6						
		PANEL OUTDOOR	MOD!			-			- U-36PE1U6			
		Branch pipe	MOD						- -			
		PERFORMANCE TE						ARI Stan	dard 210/240)		
	PO	WER SUPPLY	PH, F V	łz	208	1PH, 60Hz 230	-	208	1PH, 60Hz 230	-	Min	Max
\vdash		0.4.0.4.0.17./.*./	kW		9.1	9.1	-	200	230	-	-	IVIAX
		CAPACITY *1	BTU	'h	31200	31200	-				9500	31200
c		CURRENT *1 *4	A W		1.53	1.42	-	17.8	16.2	-	-	-
0	IN	IPUT POWER *1	TOTAL	W	220	220	-	3380 3600	3380 3600	-	640	3600
0 L		EER	-		-	-	-	8.6	8.6	-	14.8	8.6
		SEER	- 0/		-	-	-	15.5	15.5	-		
N		OWER FACTOR	% dB-A (H	/M/L)	-	39/35/31	-	91	91	-		
G		NOISE INDOOR	Power Le	vel dB		-						
	N	OISE OUTDOOR	dB-A (52			
\vdash			Power Le kW		10.6	10.6	$\overline{}$		-		_	
		CAPACITY *2	BTU		36200	36200	-				8000	36200
	(CURRENT *2 *4	A		1.53	1.42	-	16.0	14.5	-	-	-
Н	IN	IPUT POWER *2	W TOTAL	W	220	220	-	3030 3250	3030 3250	-	480	3250
E		(COP)	-		-	-	-	(11.1)	(11.1)	-	16.7	11.1
A	// IODE	HSPF	-		-	-	-	9.0	9.0	-	\	
	H3 ₂ *3	(CANADA REGIONS)) CAPACITY	BTU/	/h	-	-	-	(7.1) 18000	(7.1) 18000	-	1	
	(17°F)		TOTAL		-	-	-	2450	2450	-	1	
G	Р	OWER FACTOR	%		-	-	-	91	91	-		
	١	NOISE INDOOR	dB-A (H. Power Le			39/35/31			-		 	
l i	NI/	dR-A (H)			-		52					
Ш		NOISE OUTDOOR Power Level dB MAX CURRENT (A)/MAX INPUT POWER (W)				-		-				
-	MA	NETWORK IMPED		R (W)	1.88/265	1.75/265	-	19.0/3.60k	19.0/3.98k	-	-	
\vdash		MINIMUM CIRCUIT				15			21		 	
		XIMUM OVERCURRE				15			35			
\vdash		DISCONNECT SWITCOR FAN MOTOR A				15 -		1.0 / 1.0	0.9 / 0.9	l -	 	
H		OMPRESSOR AMPER		COOL/HEAT		-		12.8 / 15.7		-	\ \	
		PRESSOR LOCKED-I				-			17.5			
\vdash		MPRESSOR RATED OUTDOOR	HIGH SIDE			-			15.7		\ \	
l		GN PRESSURE	LOW SIDE	MPa , psi.		-			(1.63), 236		\	
		FM OUTPUT				235			90			
<u> </u>	MC	DISTURE REMOVAL V Extarnal static press		L/h, Pints/h Pa, in.WC	100/	1.4, 2.9	-0.04 0.00\		-		\	\
1/0	AIR	COOL (H/M/L)	m ³ /min. ft ³ /m			3/23, 1201/98						1
	_OW	HEAT (H/M/L)	m ³ /min, ft ³ /m			3/23, 1201/98						1
	OAIR OW	COOL HEAT	m ³ /min, ft ³ /m m ³ /min, ft ³ /m						55, 1942 55, 1942			1
FL		REFRIGERANT TYPE,				R410A, -		R410	35, 1942 A, 2.80k, 6.2,	(98.8)		'
Р	D		Γ: H mm (inch)	,		290 (11-7/16)			80 (30-23/32			
R	I I		: W mm (inch) I : D mm (inch)			1400 (55-1/8) 700 (27-9/16)			940 (37) 340 (13-3/8)			
P	M D		Γ: H mm (inch)			355 (13-31/32	<u> </u>	8	340 (13-3/6) 388 (34-31/32			
Α	1	WIDTH	: W mm (inch)		1	1614 (63-9/16	5)	1	015 (39-31/3	2)		
C			I : D mm (inch) ET) kg (lb)		3	350 (33-15/32 44 (97)	2)		409 (16-3/32 65 (143))		
M	ASS		SS) kg (lb)			52 (115)			73 (161)			
		LAYERS LIMIT ID				9 (10)			3 (4)			
		Operation Condition		Cool (DBT) Heat (DBT)		32°C (64°F - 30°C (61°F -		-10°C ~	- 46°C (14°F - 24°C (-4°F	~ 115°F) ~ 75°F\		
			ER mm (inch)	ποαι (DDT)		62 (3/8) (Gas)						
P		CONNECT	METHOD			flared type	, ,		flared type			
P			RANGE m (ft)					(25) 10 ~ 165)				
		I/D&O/D HEIGHT D		(ft)	1:	5 (OD located			igher) (50/10	0)		
N G		ADD GAS AMC	OUNT g/m (oz/ft)				40 (0.43)				
لــُــا	<u> </u>	PIPE LENGTH FOR AD	DITIONAL GAS	m (tt)			30 (100)				

^{*1:}Rating conditions : Room temperature 80 °F DB / 67 °F WB (26.7 °C DB / 19.4 °C WB), Ambient temperature 95 °F DB / 75 °F WB (35.0 °C DB / 23.9 °C WB).

^{*2:}Rating conditions : Room temperature 70 °F DB / 60 °F WB (21.1°C DB / 15.6°C WB), Ambient temperature 47 °F DB / 43 °F WB (8.3°C DB / 6.1°C WB).

^{*3:}Low temp conditions : Room temperature 70 °F DB / 60 °F WB (21.1°C DB / 15.6°C WB), Ambient temperature 17 °F DB / 15 °F WB (-8.3°C DB / -9.4°C WB).

^{*4:}INDOOR CURRENT="INDOOR FAN MOTOR LOAD"

4-Way Cassette (Type U1)

PEF	Outdoor Un	it		U-26PI	-4110		
PEF	VER SOURCE	Outdoor Unit					
	TEIT GOOTIGE		230 - 208V / 1 Phase / 60Hz				
O	RFORMANCE	Cooling			Heating		
Capacity * [minimum	ı~muximum]	BTU / h	24,800 [9,500~	24,800]	29,800	[8,000~29,800]	
	(17°F)**	BTU / h	_			18,300	
Moisture removal (Hi	igh)	Pints / h	8.1			_	
Air circulation (H / M	/ L) 230 V	CFM		710 / 53	0 / 450		
External Static Press	sure	in. WG		_	_		
S.E.E.R. / H.S.P.F. (Region 4)	BTU / Wh	14.1			9.6	
ELECT	RICAL RATINGS						
Voltage rating		V	230	208	230	208	
Available voltage ran	nge	V	VAC 187 -	253	VA	C 187 - 253	
Max.Running amper	es*	Α	15.6	17.3	14.8	16.4	
Power input		W	2,920	2,920	2,790	2,790	
	(17°F)**	W	_		2,200	2,200	
Back-up Heater		kW		_	-		
Maximum overcurrent pro	tection (Indoor/Outdoor)	А		15 /	30		
FEATURES							
Controls				Micropro	ocessor		
Low ambient control				Built-ii	n 0°F		
Fan speeds Indoor /	Outdoor		3 and A	Automatic o	control /	Variable	
Wired Remote Contr	Wired Remote Controller			CZ-R	TC2		
Optional Wireless Re			CZ-RW	SU2U			
Air deflection (Horizo	Air deflection (Horizontal / Vertical)		_	/ Automat	ic (Vertic	al)	
Air filter			Was	hable, long	life (2,5	00 hr)	
Drain pump (Drain co	onnection)		Max.head 2-33/64 in. above drain connection (25A , 0			tion (25A , OD32mm)	
Compressor			Rotary				
Operation sound	Indoor - Hi/Me/Lo	dB - A	38 / 35 / 31				
	Outdoor - Hi	dB - A	49				
Refrigerant control			Electronic Expansion Valve (MOV)			e (MOV)	
REFRIGERANT TUBIN	NG						
Limit of tubing length		ft. (m)	165 (50)				
Limit of tubing length		ft. (m)	10~100 (3~30)				
Limit of elevation diff	erence	ft. (m)	Outdoor unit is higher than indoor unit : 100 (30)				
between the two unit		ft. (m)	Outdoor unit			r unit : 50 (15)	
Refrigerant tube	Narrow tube	in. (mm)	3 / 8 (9.52)				
outer diameter	Wide tube	in. (mm)					
Refrigerant amount a		lbs. (kg)					
DIMENSIONS & WEIG			Indoor unit (nel)	Outdoor unit	
Unit dimensions	Height	in. (mm)		6 (338)		30- 23/32 (780)	
	Width	in. (mm)		64 (860)		37 (940)	
	Depth	in. (mm)		64 (860)		13- 3/8 (340)	
Package dimensions			Body	Par		Outdoor unit	
	Height	in. (mm)	13-5/16 (338)	4-3/32		34- 31/32 (888)	
	Width	in. (mm)	32-7/8 (835)	37-61/6		39- 31/32 (1,015)	
	Depth	in. (mm)	33-9/32 (845)	39-21/6		16- 3/32 (409)	
Net weight		lbs. (kg)	49 (22)	11		128 (58)	
Shipping weight		lbs. (kg)	57 (26)	18		148 (67)	
Shipping volume		cu.ft. (m3)	8.4 (0.238)	3.6 (0		13.0 (0.369) THOUT NOTICE.	

DATA SUBJECT TO CHANGE WITHOUT NOTICE.

Cooling:

Rating conditions (*): Room temperature 80 °F DB / 67 °F WB, Ambient temperature 95 °F DB / 75 °F WB

Heating:

4-Way Cassette (Type U1)

Available voltage range	MODEL No.	Indoor Unit S-36PU1U6						
PERFORMANCE		Outdoor Un	nit					
PERFORMANCE	PC							
Capacity * [minimum-muximum]								
Moisture removal (High)			BTU / h		32,6001 37			
Moisture removal (High)	Capacity [22,000]			
Air circulation (H / M / L) 230 V	Moisture removal (, ,					-	
External Static Pressure In. WG S.E.E.R. / H.S.P.F. (Region 4) BTU / Wh 14.6 8.4		•			1050 / 840 /	720		
S.E.E.R. / H.S.P.F. (Region 4) BTU / Wh					_			
Voltage rating							8.4	
Voltage rating								
Available voltage range			l v	230	208	230	208	
Max. Running amperes*		ange						
Power input		-						
Controls Microprocessor Low ambient control Fan speeds Indoor / Outdoor Automatic (Vertical) Air filter Washable, long life (2,500 hr) Drain pump (Drain connection) Automatic (25A, OD3 Compressor Controls Built-in 0°F								
Back-up Heater	1 onor input	(17°F)**					_	
Maximum overcurrent protection (Indoor/Outdoor) FEATURES Controls Low ambient control Fan speeds Indoor / Outdoor Wired Remote Controller Optional Wireless Remote Controller Air deflection (Horizontal / Vertical) Air filter Drain pump (Drain connection) Compressor Operation sound Indoor - Hi/Me/Lo Outdoor - Hi REFRIGERANT TUBING Limit of tubing length Limit of elevation difference between the two units Narrow tube Narrow tube Wiired Remote Controller CZ-RTC2 CZ-RWSU2U Al Automatic (Vertical) CZ-RWSU2U Al Automatic (Vertical) Max.head 2-33/64 in. above drain connection (25A, OD3 Refrigerant control Blidoor - Hi/Me/Lo AB - A 52 Electronic Expansion Valve (MOV) REFRIGERANT TUBING Limit of tubing length ft. (m) Outdoor unit is higher than indoor unit : 100 (3 Narrow tube in. (mm) 3 / 8 (9.52) outer diameter Wide tube in. (mm) 5 / 8 (15.88)	Back-up Heater	(17.1)				_, .00	2,100	
FEATURES Controls Low ambient control Fan speeds Indoor / Outdoor Wired Remote Controller Optional Wireless Remote Controller Air deflection (Horizontal / Vertical) Air filter Drain pump (Drain connection) Compressor Operation sound Indoor - Hi/Me/Lo Refrigerant control Refrigerant TUBING Limit of tubing length Limit of elevation difference between the two units Refrigerant tube outer diameter Nain Automatic control / Variable CZ-RTC2 CZ-RWSU2U — / Automatic (Vertical) — / Automatic (Vertical) Max.head 2-33/64 in. above drain connection (25A, OD3 Rotary Operation sound Indoor - Hi/Me/Lo AB - A 44 / 37 / 33 Outdoor - Hi AB - A Electronic Expansion Valve (MOV) REFRIGERANT TUBING Limit of tubing length ft. (m) 10~100 (3~30) Limit of elevation difference ft. (m) Outdoor unit is higher than indoor unit : 100 (3 Befrigerant tube outer diameter Narrow tube in. (mm) 3 / 8 (9.52) outer diameter Wide tube in. (mm) 5 / 8 (15.88)		rotection (Indoor/Outdoor)			15 / 35			
Controls Low ambient control Fan speeds Indoor / Outdoor Wired Remote Controller Optional Wireless Remote Controller Air deflection (Horizontal / Vertical) Air filter Drain pump (Drain connection) Compressor Operation sound Indoor - Hi/Me/Lo Outdoor - Hi Dimit of tubing length Limit of elevation difference between the two units Nand Automatic control / Variable CZ-RWSU2U — / Automatic (Vertical) — / Automatic (Vertical) Max.head 2-33/64 in. above drain connection (25A, OD3 Rotary Operation sound Indoor - Hi/Me/Lo Outdoor - Hi Dimit of tubing length It. (m) Outdoor unit is higher than indoor unit : 100 (3 Electronic Expansion Valve (MOV) REFRIGERANT TUBING Limit of elevation difference between the two units Refrigerant tube Outdoor unit is lower than indoor unit : 50 (15 Refrigerant tube Outdoor unit is lower than indoor unit : 50 (15 Refrigerant tube Outdoor unit is lower than indoor unit : 50 (15 Refrigerant tube Outdoor unit is lower than indoor unit : 50 (15 Refrigerant tube Outdoor unit is lower than indoor unit : 50 (15 Refrigerant tube Outdoor unit is lower than indoor unit : 50 (15 Refrigerant tube Outdoor unit is lower than indoor unit : 50 (15 Refrigerant tube Outdoor unit is lower than indoor unit : 50 (15 Refrigerant tube Outdoor unit is lower than indoor unit : 50 (15 Refrigerant tube Outdoor unit is lower than indoor unit : 50 (15 Refrigerant tube Outdoor unit is lower than indoor unit : 50 (15 Refrigerant tube Outdoor unit is lower than indoor unit : 50 (15 Refrigerant tube Outdoor unit is lower than indoor unit : 50 (15 Refrigerant tube Outdoor unit is lower than indoor unit : 50 (15 Refrigerant tube Outdoor unit is lower than indoor unit : 50 (15 Refrigerant tube Outdoor unit is lower than indoor unit : 50 (15 Refrigerant tube in. (mm) Outdoor unit is lower than indoor unit : 50 (15 Refrigerant tube in. (mm)		()	, , ,		10 7 00			
Low ambient control Fan speeds Indoor / Outdoor Wired Remote Controller Optional Wireless Remote Controller Air deflection (Horizontal / Vertical) Air filter Drain pump (Drain connection) Compressor Operation sound Indoor - Hi/Me/Lo Refrigerant control Refrigerant TUBING Limit of tubing length Limit of elevation difference between the two units Refrigerant tube outer diameter Data and Automatic control / Variable CZ-RWSU2U — / Automatic (Vertical) — / Automatic (Vertical) Washable, long life (2,500 hr) Wax.head 2-33/64 in. above drain connection (25A, OD3 Refrigerant control (25A - OD3 Refrigerant control (25A - OD3 Refrigerant tube (MOV) REFRIGERANT TUBING Limit of tubing length ft. (m) Cutdoor unit is higher than indoor unit : 100 (3 A / 8 (9.52) Outdoor unit is lower than indoor unit : 50 (15 Refrigerant tube (MOV) Refrigerant					Microproces	ssor		
Fan speeds Indoor / Outdoor Wired Remote Controller Optional Wireless Remote Controller Air deflection (Horizontal / Vertical) Air filter Drain pump (Drain connection) Compressor Operation sound Indoor - Hi/Me/Lo Refrigerant control REFRIGERANT TUBING Limit of tubing length Limit of elevation difference between the two units Refrigerant tube outer diameter Fan Speeds Indoor / Outdoor CZ-RWSU2U — / Automatic (Vertical) Washable, long life (2,500 hr) Washable, long life (2,500 hr) Max.head 2-33/64 in. above drain connection (25A, OD3 Rotary Outdoor - Hi dB - A 52 Electronic Expansion Valve (MOV) REFRIGERANT TUBING Limit of tubing length ft. (m) 10~100 (3~30) Limit of elevation difference between the two units ft. (m) Outdoor unit is higher than indoor unit: 100 (3) Refrigerant tube outer diameter Wide tube in. (mm) 5 / 8 (15.88)		nl						
Wired Remote Controller Optional Wireless Remote Controller Air deflection (Horizontal / Vertical) Air filter Drain pump (Drain connection) Compressor Operation sound Refrigerant control REFRIGERANT TUBING Limit of tubing length Limit of elevation difference between the two units Refrigerant tube outer diameter Wishable, long life (2,500 hr) Washable, long life (2,500 hr) Washable, long life (2,500 hr) Max.head 2-33/64 in. above drain connection (25A, OD3 Ad4 / 37 / 33 Outdoor - Hi/Me/Lo dB - A 44 / 37 / 33 Electronic Expansion Valve (MOV) REFRIGERANT TUBING Limit of tubing length ft. (m) Outdoor unit is higher than indoor unit : 100 (3 and between the two units ft. (m) Outdoor unit is lower than indoor unit : 50 (15 and between the two units Refrigerant tube outer diameter Wide tube in. (mm) 5 / 8 (15.88)				3 and A			/ariable	
Optional Wireless Remote Controller Air deflection (Horizontal / Vertical) Air filter Drain pump (Drain connection) Compressor Operation sound Indoor - Hi/Me/Lo Refrigerant control REFRIGERANT TUBING Limit of tubing length Limit of elevation difference between the two units Refrigerant tube outer diameter Optional Wireless Remote Controller CZ-RWSU2U — / Automatic (Vertical) Washable, long life (2,500 hr) Max.head 2-33/64 in. above drain connection (25A, OD3 Refragerant control dB - A 44 / 37 / 33 Outdoor - Hi dB - A 52 Electronic Expansion Valve (MOV) 165 (50) Limit of tubing length ft. (m) Outdoor unit is higher than indoor unit : 100 (3 and one) 10 and one in the control of the control				0 00.7				
Air deflection (Horizontal / Vertical) Air filter Drain pump (Drain connection) Compressor Operation sound Indoor - Hi/Me/Lo Refrigerant control REFRIGERANT TUBING Limit of tubing length Limit of elevation difference between the two units Refrigerant tube outer diameter Nashable, long life (2,500 hr) Max.head 2-33/64 in. above drain connection (25A, OD3 Max.head 2-33/64 in. above drain connection (25A, OD3 Air filter Washable, long life (2,500 hr) Max.head 2-33/64 in. above drain connection (25A, OD3 At 1								
Air filter Drain pump (Drain connection) Compressor Operation sound Indoor - Hi/Me/Lo Refrigerant control Electronic Expansion Valve (MOV) REFRIGERANT TUBING Limit of tubing length Limit of elevation difference between the two units Refrigerant tube outer diameter Nashable, long life (2,500 hr) Max.head 2-33/64 in. above drain connection (25A, OD3 Refragerant Control Refrigerant Control Electronic Expansion Valve (MOV) Fit. (m) 10~100 (3~30) Compressor Rotary Fit. (m) Outdoor unit is higher than indoor unit : 100 (3 and in the standard of the	-			_			al)	
Drain pump (Drain connection) Compressor Operation sound Indoor - Hi/Me/Lo Outdoor - Hi Refrigerant control Limit of tubing length Limit of elevation difference between the two units Refrigerant tube outer diameter Drain pump (Drain connection) Max.head 2-33/64 in. above drain connection (25A, OD3 Max.head 2-33/64 in. above drain connection (25A, OD3 Refraigerant control Blectronic Expansion Valve (MOV) Electronic Expansion Valve (MOV) FEFRIGERANT TUBING Limit of tubing length ft. (m) Outdoor unit is higher than indoor unit: 100 (3 and one) between the two units Refrigerant tube outer diameter Narrow tube in. (mm) 3 / 8 (9.52) Wide tube in. (mm) 5 / 8 (15.88)							,	
Compressor Operation sound Indoor - Hi/Me/Lo Outdoor - Hi Outdoor unit is higher than indoor unit : 50 (15 Nerigerant tube outer diameter Narrow tube Outdoor unit is lower than indoor unit : 50 (15 Nerigerant tube in. (mm) Set Total - A		connection)						
Operation sound Indoor - Hi/Me/Lo Outdoor - Hi Outdoor Unit is higher than indoor unit : 100 (3 between the two units Outdoor unit is lower than indoor unit : 50 (15 Refrigerant tube Outer diameter Narrow tube Outdoor Unit is lower than indoor unit : 50 (15 Narrow tube) Outer diameter Narrow tube Outdoor Unit is lower than indoor unit : 50 (15 Narrow tube) Outer diameter Narrow tube Outer diameter Outdoor Unit is lower than indoor unit : 50 (15 Narrow tube) Outer diameter Outdoor Unit is lower than indoor unit : 50 (15 Narrow tube) Outer diameter Outdoor Unit is lower than indoor Unit : 50 (15 Narrow tube) Outer diameter Outdoor Unit is lower than indoor Unit : 50 (15 Narrow tube) Outer diameter Outdoor Unit is lower than indoor Unit : 50 (15 Narrow tube) Outer diameter Outdoor Unit is lower than indoor Unit : 50 (15 Narrow tube) Outer diameter Outdoor Unit is lower than indoor Unit : 50 (15 Narrow tube) Outer diameter		<u> </u>						
Outdoor - Hi dB - A 52		Indoor - Hi/Me/Lo	dB - A	·				
Refrigerant control REFRIGERANT TUBING Limit of tubing length Limit of tubing length at shipment Limit of elevation difference between the two units Refrigerant tube outer diameter Refrigerant control Electronic Expansion Valve (MOV) 165 (50) 10~100 (3~30) 10~100 (3~30) It. (m) Outdoor unit is higher than indoor unit: 100 (3 on the shipment of the shipment								
REFRIGERANT TUBING Limit of tubing length ft. (m) 165 (50) Limit of tubing length at shipment ft. (m) 10~100 (3~30) Limit of elevation difference ft. (m) Outdoor unit is higher than indoor unit : 100 (3 between the two units ft. (m) Outdoor unit is lower than indoor unit : 50 (15 Refrigerant tube outer diameter Narrow tube in. (mm) 3 / 8 (9.52) Wide tube in. (mm) 5 / 8 (15.88)	Refrigerant control	o didoo					(MOV)	
Limit of tubing length Limit of tubing length at shipment Limit of tubing length at shipment Limit of elevation difference between the two units Refrigerant tube outer diameter Marrow tube ft. (m) Outdoor unit is higher than indoor unit: 100 (3 Outdoor unit is lower than indoor unit: 50 (15 A / 8 (9.52) Wide tube in. (mm) 5 / 8 (15.88)		ING					(110 1)	
Limit of tubing length at shipment Limit of elevation difference between the two units Refrigerant tube outer diameter Marrow tube Narrow tube in. (mm) 10~100 (3~30) 10~100 (3~30) Outdoor unit is higher than indoor unit : 100 (3) Ft. (m) Outdoor unit is lower than indoor unit : 50 (15) 10~100 (3~30) 10~100 (ft. (m)		165 (50))		
Limit of elevation difference ft. (m) Outdoor unit is higher than indoor unit : 100 (3 between the two units ft. (m) Outdoor unit is lower than indoor unit : 50 (15 Refrigerant tube Narrow tube in. (mm) 3 / 8 (9.52) outer diameter Wide tube in. (mm) 5 / 8 (15.88)								
between the two units Refrigerant tube Narrow tube in. (mm) 5 / 8 (9.52)								
Refrigerant tube Narrow tube in. (mm) 3 / 8 (9.52) outer diameter Wide tube in. (mm) 5 / 8 (15.88)	between the two ur	nits						
outer diameter Wide tube in. (mm) 5 / 8 (15.88)	Refrigerant tube	Narrow tube		<i>'</i>			, ,	
Refrigerant amount at shipment lbs (kg) 6.2 (2.8) - R4104	outer diameter	Wide tube	in. (mm)	5 / 8 (15.88)				
	Refrigerant amount	t at shipment	lbs. (kg)					
DIMENSIONS & WEIGHT Indoor unit (Include panel) Outdoor u	DIMENSIONS & WEI	GHT		Indoor unit (I	Indoor unit (Include panel)		Outdoor unit	
Unit dimensions Height in. (mm) 14-31/64 (368) 30- 23/32 (7	Unit dimensions	Height	in. (mm)	14-31/6	14-31/64 (368)		30- 23/32 (780)	
Width in. (mm) 45-9/32 (1,150) 37 (940)		Width	in. (mm)	45-9/32	2 (1,150)		37 (940)	
Depth in. (mm) 33-55/64 (860) 13- 3/8 (34		Depth	in. (mm)	33-55/6	64 (860)		13- 3/8 (340)	
	Package dimension				Panel		Outdoor unit	
Height in. (mm) 14-31/64 (368) 4-3/32 (104) 34- 31/32 (8		Height	in. (mm)	14-31/64 (368)	4-3/32 (10	(4)	34- 31/32 (888)	
			in. (mm)				39- 31/32 (1,015)	
		Depth	in. (mm)				16- 3/32 (409)	
	Net weight		lbs. (kg)				143 (65)	
	Shipping weight		lbs. (kg)	71 (32)	22 (10)		161 (73)	
	Shipping volume			12.4 (0.350)	4.6 (0.13	1)	13.0 (0.369)	

DATA SUBJECT TO CHANGE WITHOUT NOTICE.

Cooling:

Rating conditions (*): Room temperature 80 °F DB / 67 °F WB, Ambient temperature 95 °F DB / 75 °F WB

Heating:

4-Way Cassette (Type U1)

MODEL No.	Indoor Uni	t	S-42PU1U6				
	Outdoor Un	iit	U-42PE1U6				
P	OWER SOURCE		230 - 208V / 1 Phase / 60Hz				
P	ERFORMANCE	Cooling Heating			Heating		
Capacity * [minimu	ım~muximum]	BTU / h		39,500]	48,000	[8,000~48,000]	
	(17°F)**	BTU / h	_			31,800	
Moisture removal	(High)	Pints / h	12.6			_	
Air circulation (H /	M / L) 230 V	CFM		1050 / 84	40 / 720		
External Static Pre	essure	in. WG		_	_		
S.E.E.R. / H.S.P.F	. (Region 4)	BTU / Wh	14.6			9.7	
ELEC	CTRICAL RATINGS						
Voltage rating		V	230	208	230		
Available voltage r		V	VAC 187 - 2	253	VA	C 187 - 253	
Max. Running am	peres*	Α	23.0	25.4	22.4	24.8	
Power input		W	4,520	4,520	4,360	4,360	
	(17°F)**	W			3,540	3,540	
Back-up Heater		kW			•		
	protection (Indoor/Outdoor)	А		15 /	40		
FEATURES							
Controls				Micropro			
Low ambient contr				Built-ii			
Fan speeds Indoo			3 and A	utomatic o		Variable	
Wired Remote Co			CZ-R				
Optional Wireless			CZ-RW	SU2U			
Air deflection (Hor	Air deflection (Horizontal / Vertical)			/ Automat			
Air filter			nable, long				
Drain pump (Drain	connection)		Max.head 2-33/64 ir	Max.head 2-33/64 in. above drain connection (25A, OD3			
Compressor			Rotary				
Operation sound	Indoor - Hi/Me/Lo	dB - A	45 / 38 / 34				
	Outdoor - Hi	dB - A	53				
Refrigerant contro			Electronic Expansion Valve (MOV)				
REFRIGERANT TUE			407 (70)				
Limit of tubing leng		ft. (m)		165			
Limit of tubing leng		ft. (m)	10~100 (3~30) Outdoor unit is higher than indoor unit : 100 (30				
Limit of elevation of		ft. (m)					
between the two u		ft. (m)	Outdoor unit i			r unit : 50 (15)	
Refrigerant tube	Narrow tube	in. (mm)	, , ,				
outer diameter	Wide tube	in. (mm)					
Refrigerant amour		lbs. (kg)		7.9 (3.6) -			
DIMENSIONS & WE			Indoor unit (I		nel)	Outdoor unit	
Unit dimensions	Height	in. (mm)		64 (368)		48-7/16 (1,230)	
	Width	in. (mm)		2 (1,150)		37 (940)	
<u> </u>	Depth	in. (mm)		64 (860)		13- 3/8 (340)	
Package dimensio		in. (mm)	Body	Par		Outdoor unit	
	Height		14-31/64 (368)	4-3/32		52-3/8 (1,330)	
	Width	in. (mm)	44-19/64 (1,125)	49-31/64		39- 31/32 (1,015)	
N	Depth	in. (mm)	33-9/32 (845)	39-21/6		16- 3/32 (409)	
Net weight		lbs. (kg)	60 (27)	16		220 (100)	
Shipping weight		lbs. (kg)	71 (32)	22 (240 (109)	
Shipping volume		cu.ft. (m ³)	12.4 (0.350)	4.6 (0		19.5 (0.552) THOUT NOTICE.	

DATA SUBJECT TO CHANGE WITHOUT NOTICE.

Cooling:

Rating conditions (*): Room temperature 80 °F DB / 67 °F WB, Ambient temperature 95 °F DB / 75 °F WB

Heating:

4-Way Cassette (Type U1)

MODEL No.	Indoor Uni	t	S-26PU1U6			
	Outdoor Un			U-26PS1U6		
PC	OWER SOURCE		230 -	208V / 1 Phase /	60Hz	
P	ERFORMANCE			Cooling		
Capacity * [minimu		BTU / h	24	24,800 [9,500~24,800]		
' ' '	(17°F)**	BTU / h		<u> </u>	-	
Moisture removal (High)	Pints / h		8.1		
Air circulation (H /		CFM		710 / 530 / 450		
External Static Pre	ssure	in. WG		_		
S.E.E.R. / H.S.P.F	. (Region 4)	BTU / Wh		14.1		
ELEC	TRICAL RATINGS					
Voltage rating		V	230		208	
Available voltage r	ange	V		VAC 187 - 253		
Max. Running amp	peres*	A	15.6		17.3	
Power input		W	2,920		2,920	
	(17°F)**	W		_		
Back-up Heater		kW		_		
Maximum overcurrent p	protection (Indoor/Outdoor)	A		15 / 30		
FEATURES						
Controls				Microprocessor		
Low ambient contr				Built-in 0°F		
Fan speeds Indoor			3 and A	utomatic control /	Variable	
	Wired Remote Controller			CZ-RTC2		
Optional Wireless			CZ-RWSU2U			
Air deflection (Hori	zontal / Vertical)		— / Automatic (Vertical)			
Air filter			Washable, long life (2,500 hr)			
Drain pump (Drain	connection)		Max.head 2-33/64 in. above drain connection (25A, OD32mm			
Compressor				Rotary		
Operation sound	Indoor - Hi/Me/Lo			38 / 35 / 31		
	Outdoor - Hi	dB - A		49	(2.4.0.1.1)	
Refrigerant control			Electron	ic Expansion Valv	e (MOV)	
REFRIGERANT TUB						
Limit of tubing leng		ft. (m)				
Limit of tubing leng		ft. (m)		10~100 (3~30)		
Limit of elevation of		ft. (m)		higher than indoo s lower than indoo		
between the two u	Narrow tube	ft. (m) in. (mm)			n utill . 50 (15)	
Refrigerant tube outer diameter	Wide tube	in. (mm)		3 / 8 (9.52) 5 / 8 (15.88)		
Refrigerant amoun		lbs. (kg)		4.2 (1.9) - R410A		
DIMENSIONS & WEI		ibs. (kg)			Outdoor unit	
Unit dimensions	Height	in. (mm)	` ' '		30- 23/32 (780)	
Offic difficultions	Width				37 (940)	
	Depth	in. (mm) in. (mm)			13- 3/8 (340)	
Package dimension	Package dimensions		Body	Panel	Outdoor unit	
I donage dimensio	Height		13-5/16 (338) 4-3/32 (104)		34- 31/32 (888)	
	Width			37-61/64 (964)	39- 31/32 (1,015)	
	Depth	in. (mm) in. (mm)	33-9/32 (845)	39-21/64 (999)	16- 3/32 (409)	
Net weight	Ipobiii	lbs. (kg)	49 (22)	11 (5)	128 (58)	
Shipping weight		lbs. (kg)	57 (26)	18 (8)	148 (67)	
Shipping volume		cu.ft. (m ³)	8.4 (0.238)	3.6 (0.100)	13.0 (0.369)	
Shipping volume		<i>3</i> (111)		TO CHANGE W		

DATA SUBJECT TO CHANGE WITHOUT NOTICE.

Cooling:

Rating conditions (*): Room temperature 80 °F DB / 67 °F WB, Ambient temperature 95 °F DB / 75 °F WB

Heating:

4-Way Cassette (Type U1)

MODEL No.	Indoor Uni	t	S-36PU1U6			
	Outdoor Un			U-36PS1U6		
P	POWER SOURCE			208V / 1 Phase /	60Hz	
Р	ERFORMANCE		Cooling			
Capacity * [minimu	ım~muximum]	BTU / h	32	2,600 [9,500~32,60	00]	
	(17°F)**	BTU / h			-	
Moisture removal	(High)	Pints / h		10.6		
Air circulation (H /	M / L) 230 V	CFM		1050 / 840 / 720		
External Static Pre	ssure	in. WG		_		
S.E.E.R. / H.S.P.F	. (Region 4)	BTU / Wh		14.6		
ELEC	TRICAL RATINGS					
Voltage rating		V	230		208	
Available voltage r	ange	V		VAC 187 - 253		
Max. Running am	peres*	Α	18.7		20.7	
Power input		W	3,950		3,950	
	(17°F)**	W				
Back-up Heater		kW		<u> </u>		
_	protection (Indoor/Outdoor)	A		15 / 30		
FEATURES						
Controls				Microprocessor		
Low ambient contr				Built-in 0°F		
Fan speeds Indoo			3 and A	utomatic control /	Variable	
	Wired Remote Controller			CZ-RTC2		
	Optional Wireless Remote Controller			CZ-RWSU2U		
Air deflection (Hori	zontal / Vertical)		— / Automatic (Vertical)			
Air filter			Washable, long life (2,500 hr)			
Drain pump (Drain	connection)		Max.head 2-33/64 in. above drain connection (25A, OD32mm			
Compressor	1			Rotary		
Operation sound	Indoor - Hi/Me/Lo	dB - A		44 / 37 / 33		
D (1)	Outdoor - Hi	dB - A		52	(1.10) ()	
Refrigerant control			Electron	ic Expansion Valv	e (MOV)	
REFRIGERANT TUE		ft ()		105 (50)		
Limit of tubing leng		ft. (m)		165 (50)		
Limit of tubing leng		ft. (m)	Outele en unitie	10~100 (3~30)		
between the two u		ft. (m)		higher than indoo s lower than indoo		
Refrigerant tube	Narrow tube	ft. (m)	Outdoor unit i		n utilit . 50 (15)	
outer diameter	Wide tube	in. (mm) in. (mm)		3 / 8 (9.52) 5 / 8 (15.88)		
				6.2 (2.8) - R410A		
Refrigerant amoun		lbs. (kg)		nclude panel)	Outdoor unit	
Unit dimensions	Height	in. (mm)		64 (368)	30- 23/32 (780)	
Offic difficultions	Width	in. (mm)			37 (940)	
	Depth	in. (mm)			13- 3/8 (340)	
Package dimensio		111. (111111)			Outdoor unit	
Height		in. (mm)	14-31/64 (368)	4-3/32 (104)	34- 31/32 (888)	
Width		in. (mm)	44-19/64 (1,125)	49-31/64 (1,257)	39- 31/32 (1,015)	
	Depth	in. (mm)	33-9/32 (845)	39-21/64 (999)	16- 3/32 (409)	
Net weight	Ισορίιι	lbs. (kg)	60 (27)	16 (7)	143 (65)	
Shipping weight		lbs. (kg)	71 (32)	22 (10)	161 (73)	
Shipping volume		cu.ft. (m ³)	12.4 (0.350)	4.6 (0.131)	13.0 (0.369)	
Chipping volune		34.1t. (111)		TO CHANGE W		

DATA SUBJECT TO CHANGE WITHOUT NOTICE.

Cooling:

Rating conditions (*): Room temperature 80 °F DB / 67 °F WB, Ambient temperature 95 °F DB / 75 °F WB

Heating:

4-Way Cassette (Type U1)

MODEL No.	Indoor Unit		S-42PU1U6			
	Outdoor Un			U-42PS1U6		
PC	OWER SOURCE		230 -	· 208V / 1 Phase /	60Hz	
P	ERFORMANCE			Cooling		
Capacity * [minimu	ım~muximum]	BTU / h	39	9,500 [9,500~39,50	00]	
	(17°F)**	BTU / h		<u> </u>		
Moisture removal ((High)	Pints / h		12.6		
Air circulation (H /	M / L) 230 V	CFM		1050 / 840 / 720		
External Static Pre	ssure	in. WG		_		
S.E.E.R. / H.S.P.F		BTU / Wh		14.6		
ELEC	CTRICAL RATINGS					
Voltage rating		V	230		208	
Available voltage r		V		VAC 187 - 253		
Max. Running amp	peres*	A	23.0		25.4	
Power input		W	4,520		4,520	
	(17°F)**	W				
Back-up Heater		kW				
	protection (Indoor/Outdoor)	A		15 / 35		
FEATURES						
Controls				Microprocessor		
Low ambient contr				Built-in 0°F		
Fan speeds Indoor			3 and A	utomatic control /	Variable	
	Wired Remote Controller			CZ-RTC2		
Optional Wireless			CZ-RWSU2U			
Air deflection (Hori	zontal / Vertical)		— / Automatic (Vertical)			
Air filter			Washable, long life (2,500 hr)			
Drain pump (Drain	connection)		Max.head 2-33/64 in. above drain connection (25A, OD32mm)			
Compressor	1	15.4		Rotary		
Operation sound	Indoor - Hi/Me/Lo	dB - A		45 / 38 / 34		
Defries years as a served	Outdoor - Hi	dB - A	□ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	53	- (MO)/)	
Refrigerant control REFRIGERANT TUE			Electron	ic Expansion Valv	e (MOV)	
		ft (m)		105 (50)		
Limit of tubing leng		ft. (m)		165 (50) 10~100 (3~30)		
Limit of tubing leng		ft. (m)			r unit : 100 (20)	
between the two u		ft. (m) ft. (m)		higher than indoo s lower than indoo		
Refrigerant tube	Narrow tube	in. (mm)		3 / 8 (9.52)	n utilit . 50 (15)	
outer diameter	Wide tube	in. (mm)		5 / 8 (15.88)		
Refrigerant amoun		lbs. (kg)		7.9 (3.6) - R410A		
DIMENSIONS & WE		ivo. (ng)		nclude panel)	Outdoor unit	
Unit dimensions	Height	in. (mm)		64 (368)	48-7/16 (1,230)	
Chit dimonsions	Width	in. (mm)			37 (940)	
	Depth	in. (mm)			13- 3/8 (340)	
Package dimension	Package dimensions		Body	Panel	Outdoor unit	
Height		in. (mm)	14-31/64 (368)	4-3/32 (104)	52-3/8 (1,330)	
	Width		44-19/64 (1,125)	49-31/64 (1,257)	39- 31/32 (1,015)	
	Depth	in. (mm) in. (mm)	33-9/32 (845)	39-21/64 (999)	16- 3/32 (409)	
Net weight	1206411	lbs. (kg)	60 (27)	16 (7)	220 (100)	
Shipping weight		lbs. (kg)	71 (32)	22 (10)	240 (109)	
Shipping volume		cu.ft. (m ³)	12.4 (0.350)	4.6 (0.131)	19.5 (0.552)	
Chipping volunio		34 (111)		TO CHANGE W		

DATA SUBJECT TO CHANGE WITHOUT NOTICE.

Cooling:

Rating conditions (*): Room temperature 80 °F DB / 67 °F WB, Ambient temperature 95 °F DB / 75 °F WB

Heating:

Wall Mounted (Type K1)

MODEL No.	Indoor Uni		S-26P	K1U6			
	Outdoor Ur	U-26PE1U6					
P(OWER SOURCE		23	30 - 208V / 1	Phase / 60Hz	Z	
P	ERFORMANCE		Coolii	ng	Hea	ıting	
Capacity * [minimu	ım~muximum]	BTU / h	25,200 [9,500	0~25,200]	29,200 [8,0	00~29,200]	
	(17°F)**	BTU / h	_		17,	200	
Moisture removal	(High)	Pints / h	8.1		_	-	
Air circulation (H /	M / L) 230 V	CFM		559 / 47	75 / 390		
External Static Pre	essure	in. WG		_	_		
S.E.E.R. / H.S.P.F		BTU / Wh	14.9)	10	.2	
ELE(CTRICAL RATINGS						
Voltage rating		V	230	208	230	208	
Available voltage i		V	VAC 187			37 - 253	
Max. Running am	peres*	Α	15.3	16.9	14.0	15.5	
Power input		W	2,840	2,840	2,620	2,620	
	(17°F)**	W			2,030	2,030	
Back-up Heater		kW			_		
	protection (Indoor/Outdoor)	Α		15 /	/ 30		
FEATURES							
Controls					ocessor		
Low ambient contr				Built-i			
Fan speeds Indoo			3 and Automatic control / Variable				
Optional Wired Re			CZ-RTC2 CZ-RWSK1U				
Wireless Remote							
Air deflection (Hor	izontal / Vertical)		-		tic (Vertical)		
Air filter				Washable			
Drain pump (Drain	connection)		— (20A , OD26mm)				
Compressor			Rotary				
Operation sound	Indoor - Hi/Me/Lo				2 / 38		
	Outdoor - Hi	dB - A			.9	01.0	
Refrigerant contro			Electr	onic Expans	sion Valve (M	JV)	
REFRIGERANT TUE		6. ()		10=	(=0)		
Limit of tubing leng		ft. (m)		165	· ,		
Limit of tubing leng		ft. (m)	0.11) (3~30)	100 (00)	
Limit of elevation of		ft. (m)			an indoor unit		
between the two u		ft. (m)	Outdoor un		nan indoor uni	1:50 (15)	
Refrigerant tube	Narrow tube	in. (mm)			(9.52)		
outer diameter	Wide tube	in. (mm)			(15.88)		
Refrigerant amour DIMENSIONS & WE		lbs. (kg)	Indoor	4.2 (1.9) -		or unit	
		in (mm)					
Unit dimensions	Height Width	in. (mm)	12- 63/64	` ,	30- 23/3	, ,	
		in. (mm)	44- 7/8 (1		37 (
Pookogo dimensia	Depth	in. (mm)	8- 31/32	` '		3 (340) or unit	
rackage dimension	Package dimensions		Indoor (15- 11/32				
	Height			` ,	34- 31/3		
	Width	in. (mm)	47- 27/32			2 (1,015)	
Not weight	Depth	in. (mm)	11- 17/32			2 (409)	
Net weight		lbs. (kg)	40 (1		128		
Shipping weight Shipping volume		lbs. (kg) cu.ft. (m³)	44 (2		148	<u> </u>	
Shipping volume		Cu.it. (III°)	4.9 (0.139) 13.0 (0.369)				

DATA SUBJECT TO CHANGE WITHOUT NOTICE.

Cooling:

Rating conditions (*): Room temperature 80 °F DB / 67 °F WB, Ambient temperature 95 °F DB / 75 °F WB

Heating:

Wall Mounted (Type K1)

MODEL No.	Indoor Uni	t I	S-26PK1U6				
	Outdoor Un		U-26PS1U6				
P	OWER SOURCE		230 - 208V / 1 Phase / 60Hz				
	ERFORMANCE			oling			
Capacity * [minimu		BTU / h		00~25,200]			
	(17°F)**	BTU / h		_			
Moisture removal	,	Pints / h	8.	1			
Air circulation (H /		CFM		75 / 390			
External Static Pre		in. WG		_			
S.E.E.R. / H.S.P.F		BTU / Wh	14	9			
	CTRICAL RATINGS	210,1111					
Voltage rating	7111071=111111010	V	230	208			
Available voltage	range	V		37 - 253			
Max. Running am	•	A	15.3	16.9			
Power input	00.00	W	2,840	2,840			
1 owor input	(17°F)**	W	2,010				
Back-up Heater	(17.1)	kW					
-	protection (Indoor/Outdoor)	A	15	/ 30			
FEATURES	(massife and sol)		10				
Controls			Micropr	ocessor			
Low ambient contr	ol			in 0°F			
Fan speeds Indoo				control / Variable			
Optional Wired Re			CZ-R				
Wireless Remote			CZ-RW				
Air deflection (Hor			— / Automatic (Vertical)				
Air filter			Washable				
Drain pump (Drain	connection)		— (20A , OD26mm)				
Compressor			Rotary				
Operation sound	Indoor - Hi/Me/Lo	dB - A		2/38			
	Outdoor - Hi	dB - A		9			
Refrigerant contro		<u> </u>	Electronic Expans				
REFRIGERANT TUE				()			
Limit of tubing leng		ft. (m)	165	(50)			
Limit of tubing leng		ft. (m)		(3~30)			
Limit of elevation of		ft. (m)		an indoor unit : 100 (30)			
between the two u	nits	ft. (m)		nan indoor unit : 50 (15)			
Refrigerant tube	Narrow tube	in. (mm)		(9.52)			
outer diameter	Wide tube	in. (mm)		(15.88)			
Refrigerant amour	nt at shipment	lbs. (kg)	4.2 (1.9) -				
DIMENSIONS & WE	IGHT		Indoor unit	Outdoor unit			
Unit dimensions	Height	in. (mm)	12- 63/64 (330)	30- 23/32 (780)			
	Width	in. (mm)	44- 7/8 (1,140)	37 (940)			
	Depth	in. (mm)	8- 31/32 (228)	13- 3/8 (340)			
Package dimension	Package dimensions		Indoor unit	Outdoor unit			
	Height		15- 11/32 (390)	34- 31/32 (888)			
	Width	in. (mm)					
	Depth	in. (mm)	11- 17/32 (293)	16- 3/32 (409)			
Net weight	•	lbs. (kg)	40 (18)	128 (58)			
Shipping weight		lbs. (kg)	44 (20)	148 (67)			
Shipping volume		cu.ft. (m ³)	4.9 (0.139)	13.0 (0.369)			
Shipping volume		cu.it. (III°)		NGE WITHOUT NOTICE			

DATA SUBJECT TO CHANGE WITHOUT NOTICE.

Cooling:

Rating conditions (*): Room temperature 80 °F DB / 67 °F WB, Ambient temperature 95 °F DB / 75 °F WB

Heating:

Ceiling (Type T1)

MODEL No.	Indoor Uni	t	S-26PT1U6				
	Outdoor Un	nit		U-26P			
P	OWER SOURCE		230 - 208V / 1 Phase / 60Hz		Z		
P	ERFORMANCE		Cooling Heating				
Capacity * [minimu	ım~muximum]	BTU / h	24,400 [9,5	500~24,400]	30,800 [8,000~30,800]		
	(17°F)**	BTU / h	_		17,900		
Moisture removal	(High)	Pints / h	7.	.7	_	_	
Air circulation (H /	M / L) 230 V	CFM		550 / 49	90 / 460		
External Static Pre		in. WG		_	_		
S.E.E.R. / H.S.P.F	. (Region 4)	BTU / Wh	14	ł.5	9	.4	
ELE(CTRICAL RATINGS						
Voltage rating		V	230	208	230	208	
Available voltage r		V	VAC 18	37 - 253	VAC 18	37 - 253	
Max. Running amperes	s* (Without Back-up Heater)	Α	15.6	17.3	16.4	18.1	
Power input		W	2,880	2,880	3,000	3,000	
	(17°F)**	W	_	_	2,190	2,190	
Back-up Heater		kW		_	_		
Maximum overcurrent	protection (Indoor/Outdoor)	Α		15.	/ 30		
FEATURES							
Controls				Micropro			
Low ambient contr	ol			Built-	in 0°F		
Fan speeds Indoo	r / Outdoor		3 a	nd Automatic	control / Varia	able	
Wired Remote Co	ntroller			CZ-R	Z-RTC2		
Optional Wireless	Remote Controller		CZ-RWSU2U				
Air deflection (Hor	izontal / Vertical)			— / Automa	tic (Vertical)		
Air filter			Washable, long life (2,500 hr)				
Drain pump (Drain	connection)		— (20A , OD26mm)				
Compressor			Rotary				
Operation sound	Indoor - Hi/Me/Lo	dB - A		39 / 3	7 / 33		
	Outdoor - Hi	dB - A			.9		
Refrigerant contro			Elec	ctronic Expans	sion Valve (M	OV)	
REFRIGERANT TUE	BING						
Limit of tubing leng	gth	ft. (m)			(50)		
Limit of tubing leng		ft. (m)			(3~30)		
Limit of elevation of		ft. (m)		nit is higher th			
between the two u	nits	ft. (m)	Outdoor	unit is lower th	nan indoor uni	t : 50 (15)	
Refrigerant tube	Narrow tube	in. (mm)			(9.52)		
outer diameter	Wide tube	in. (mm)			(15.88)		
Refrigerant amour		lbs. (kg)		4.2 (1.9) -			
DIMENSIONS & WE				or unit		or unit	
Unit dimensions	Height	in. (mm)		2 (190)	30- 23/3	<u> </u>	
	Width	in. (mm)		5 (1,300)		940)	
	Depth	in. (mm)	26-3/8 (670) 13- 3/8 (
Package dimension	Package dimensions			or unit		or unit	
	Height			6 (240)		32 (888)	
	Width	in. (mm)		2 (1,387)		2 (1,015)	
	Depth	in. (mm)				2 (409)	
Net weight		lbs. (kg)		(26)	128	(58)	
Shipping weight		lbs. (kg)	68	(31)	148	(67)	
Shipping volume		cu.ft. (m³)).253)		0.369)	

DATA SUBJECT TO CHANGE WITHOUT NOTICE.

Cooling:

Rating conditions (*): Room temperature 80 °F DB / 67 °F WB, Ambient temperature 95 °F DB / 75 °F WB

Heating:

Ceiling (Type T1)

MODEL No.	Indoor Uni	t	S-36PT1U6				
	Outdoor Un			U-36P			
P	OWER SOURCE		2	30 - 208V / 1	Phase / 60Hz	•	
P	ERFORMANCE		Cooling Heating				
Capacity * [minimu		BTU / h		00~31,200]	37,400 [8,000~37,400]		
	(17°F)**	BTU / h		-	21,0		
Moisture removal	,	Pints / h	10.	.0		<u>-</u>	
Air circulation (H /		CFM			30 / 750		
External Static Pre		in. WG			_		
S.E.E.R. / H.S.P.F		BTU / Wh	15	1	8.	8	
	CTRICAL RATINGS	2107			0.		
Voltage rating		V	230	208	230	208	
Available voltage r	ange	V	VAC 18		VAC 18		
Max. Running am		A	18.2	20.1	15.6	17.3	
Power input	30100	W	3,840	3,840	3,250	3,250	
I owo input	(17°F)**	W			2,470	2,470	
Back-up Heater	(17.1)	kW				۷,٦١٥	
	protection (Indoor/Outdoor)	A		15			
FEATURES	(indoor/ediacor)	Λ.		107	7 00		
Controls				Micropro	coccor		
Low ambient contr	rol				in 0°F		
Fan speeds Indoor			3 21		control / Varia	hlo	
Wired Remote Co			J ai			ible	
	Remote Controller		CZ-RTC2 CZ-RWSU2U				
Air deflection (Hor			— / Automatic (Vertical)				
Air filter	izoniai / Verticai)		Washable, long life (2,500 hr)				
	connection)		— (20A , OD26mm)				
Drain pump (Drain	connection)		Rotary				
Compressor	Indon III/Ma/I	dD A					
Operation sound	Indoor - Hi/Me/Lo	dB - A			0 / 35		
Defrie a vant aantval	Outdoor - Hi	dB - A	ГІоо			217)	
Refrigerant control			Elec	tronic Expans	sion Valve (MC	JV)	
REFRIGERANT TUE		ft (ma)		105	(FO)		
Limit of tubing leng		ft. (m)	165 (50) 10~100 (3~30)				
Limit of tubing leng		ft. (m)	Outdoorum			. 100 (20)	
between the two u		ft. (m) ft. (m)			an indoor unit an indoor unit		
	Narrow tube	in. (mm)	Outdoor t			50 (15)	
Refrigerant tube		\ /			(9.52)		
outer diameter	Wide tube	in. (mm)			(15.88)		
Refrigerant amour	· · · · · · · · · · · · · · · · · · ·	lbs. (kg)	Indoo	6.2 (2.8) -		or unit	
DIMENSIONS & WE		in (mm)			Outdoo		
Unit dimensions	Height	in. (mm)	9-7/16	` '	30- 23/3	_ `	
	Width	in. (mm) in. (mm)	62-1/32		37 (9		
Doolsons dies sind	Depth		26-3/8	` '	13- 3/8	<u> </u>	
Package dimensio	Package dimensions		Indoo		Outdoo		
Height		in. (mm)	12-15/32 (317)		34- 31/3	<u> </u>	
	Width	in. (mm)			39- 31/32		
At a size	Depth	in. (mm)	31-1/16	` ,	16- 3/3		
Net weight		lbs. (kg)	84 (143	· /	
Shipping weight		lbs. (kg)		97 (44) 161 (7		· · ·	
Shipping volume		cu.ft. (m ³)		14.8 (0.420) 13.0 (0.369) DATA SUBJECT TO CHANGE WITHOUT NOTICE			

DATA SUBJECT TO CHANGE WITHOUT NOTICE.

Cooling:

Rating conditions (*): Room temperature 80 °F DB / 67 °F WB, Ambient temperature 95 °F DB / 75 °F WB

Heating:

Ceiling (Type T1)

MODEL No.	Indoor Uni	t	S-42PT1U6			
	Outdoor Un	nit	U-42PE1U6			
P	OWER SOURCE		230 - 208V / 1 Phase / 60Hz		<u>z</u>	
P	ERFORMANCE		Cooling		Heating	
Capacity * [minimu	ım~muximum]	BTU / h	39,000 [9,500~39,000]		44,500 [8,0	00~44,500]
	(17°F)**	BTU / h	_	_	28,	800
Moisture removal	(High)	Pints / h	12	2.6	_	_
Air circulation (H /	M / L) 230 V	CFM		1130 / 9	50 / 775	
External Static Pre		in. WG			_	
S.E.E.R. / H.S.P.F		BTU / Wh	15	5.6	9.	5
	CTRICAL RATINGS					
Voltage rating		V	230	208	230	208
Available voltage r		V		37 - 253		37 - 253
Max. Running am	peres*	А	21.1	23.3	18.6	20.6
Power input		W	4,140	4,140	3,630	3,630
	(17°F)**	W	_	_	3,110	3,110
Back-up Heater		kW			_	
	protection (Indoor/Outdoor)	A		15	/ 40	
FEATURES						
Controls					ocessor	
Low ambient contr					in 0°F	
Fan speeds Indoo			3 and Automatic control / Variable			
Wired Remote Cor			CZ-RTC2			
Optional Wireless			CZ-RWSU2U			
Air deflection (Hor	zontal / Vertical)		— / Automatic (Vertical)			
Air filter			Washable, long life (2,500 hr)			
Drain pump (Drain	connection)		— (20A , OD26mm)			
Compressor			Rotary			
Operation sound	Indoor - Hi/Me/Lo				1 / 37	
	Outdoor - Hi	dB - A			3	
Refrigerant contro			Elec	ctronic Expans	sion Valve (M	OV)
REFRIGERANT TUE		.			(==)	
Limit of tubing leng		ft. (m)		165 (50)		
Limit of tubing leng		ft. (m)	0) (3~30)	100 (00)
Limit of elevation of		ft. (m)			an indoor uni	
between the two u		ft. (m)	Outdoor		nan indoor uni	i : 50 (15)
Refrigerant tube	Narrow tube	in. (mm)			(9.52)	
outer diameter	Wide tube	in. (mm)			(15.88)	
Refrigerant amour		lbs. (kg)	ا ما د د	7.9 (3.6) -		a u unit
DIMENSIONS & WE		: ()	Indoo			or unit
Unit dimensions	Height	in. (mm)		6 (240)	48-7/16	
	Width	in. (mm) in. (mm)		(1,575)		940)
Dealer at allows 1	Depth			3 (670)		3 (340)
Package dimension	Package dimensions			or unit		or unit
Height		in. (mm)		32 (317)	52-3/8	
	Width	in. (mm)				2 (1,015)
Net	Depth	in. (mm)		6 (789)		2 (409)
Net weight		lbs. (kg)		(38)		(100)
Shipping weight		lbs. (kg)		(44)	240 (
Shipping volume		cu.ft. (m ³)	14.8 (0.420) 19.5 (0.552)			

DATA SUBJECT TO CHANGE WITHOUT NOTICE.

Cooling:

Rating conditions (*): Room temperature 80 °F DB / 67 °F WB, Ambient temperature 95 °F DB / 75 °F WB

Heating:

Ceiling (Type T1)

MODEL No.	Indoor Uni	t I	S-26P	Г1U6	
	Outdoor Un		U-26PS1U6		
P	OWER SOURCE		230 - 208V / 1 Phase / 60Hz		
Р	ERFORMANCE		Cod	oling	
Capacity * [minimu	ım~muximum]	BTU / h		00~24,400]	
	(17°F)**	BTU / h			
Moisture removal	(High)	Pints / h	7.	.7	
Air circulation (H /	M / L) 230 V	CFM	550 / 49	90 / 460	
External Static Pre	essure	in. WG	_	_	
S.E.E.R. / H.S.P.F	. (Region 4)	BTU / Wh	14	.5	
ELEC	CTRICAL RATINGS				
Voltage rating		V	230	208	
Available voltage r	ange	V	VAC 18	37 - 253	
Max. Running amperes	s* (Without Back-up Heater)	А	15.6	17.3	
Power input		W	2,880	2,880	
	(17°F)**	W	-		
Back-up Heater	·	kW	_	_	
Maximum overcurrent p	protection (Indoor/Outdoor)	А	15	/ 30	
FEATURES					
Controls			Micropr	ocessor	
Low ambient contr	ol		Built-	in 0°F	
Fan speeds Indoo	r / Outdoor		3 and Automatic	control / Variable	
Wired Remote Cor	ntroller		CZ-F	RTC2	
Optional Wireless	Remote Controller		CZ-RWSU2U		
Air deflection (Hori	izontal / Vertical)		— / Automa	tic (Vertical)	
Air filter			Washable, long life (2,500 hr)		
Drain pump (Drain	connection)		— (20A , OD26mm)		
Compressor			Rotary		
Operation sound	Indoor - Hi/Me/Lo	dB - A	39 / 3	37 / 33	
	Outdoor - Hi	dB - A		.9	
Refrigerant control			Electronic Expans	sion Valve (MOV)	
REFRIGERANT TUE	BING				
Limit of tubing leng	gth	ft. (m)		(50)	
Limit of tubing leng		ft. (m)	10~100	0 (3~30)	
Limit of elevation of	lifference	ft. (m)		an indoor unit : 100 (30)	
between the two u		ft. (m)		nan indoor unit : 50 (15)	
Refrigerant tube	Narrow tube	in. (mm)		(9.52)	
outer diameter	Wide tube	in. (mm)		(15.88)	
Refrigerant amour		lbs. (kg)	4.2 (1.9) -		
DIMENSIONS & WE			Indoor unit	Outdoor unit	
Unit dimensions	Height	in. (mm)	7-17/32 (190)	30- 23/32 (780)	
	Width	in. (mm)	51-3/16 (1,300)	37 (940)	
	Depth	in. (mm)	26-3/8 (670)	13- 3/8 (340)	
Package dimensio	Package dimensions		Indoor unit	Outdoor unit	
	Height		9-7/16 (240)	34- 31/32 (888)	
	Width	in. (mm)	54-19/32 (1,387)	39- 31/32 (1,015)	
	Depth	in. (mm)	31-1/16 (789)	16- 3/32 (409)	
Net weight		lbs. (kg)	57 (26)	128 (58)	
Shipping weight		lbs. (kg)	68 (31)	148 (67)	
Shipping volume		cu.ft. (m³)	8.9 (0.253)	13.0 (0.369)	

DATA SUBJECT TO CHANGE WITHOUT NOTICE.

Cooling:

Rating conditions (*): Room temperature 80 °F DB / 67 °F WB, Ambient temperature 95 °F DB / 75 °F WB

Heating:

Ceiling (Type T1)

MODEL No.	Indoor Uni	Indoor Unit S-36PT1U6				
	Outdoor Ur	nit	U-36PS1U6			
P	OWER SOURCE		230 - 208V / 1	230 - 208V / 1 Phase / 60Hz		
Р	ERFORMANCE		Cod	oling		
Capacity * [minimu	ım~muximum]	BTU / h	31,200 [9,500~31,200]			
	(17°F)**	BTU / h	<u> </u>			
Moisture removal	(High)	Pints / h	10	0.0		
Air circulation (H /	M / L) 230 V	CFM	1100 / 9	930 / 750		
External Static Pre	essure	in. WG	-	_		
S.E.E.R. / H.S.P.F	. (Region 4)	BTU / Wh	15	5.1		
ELEC	CTRICAL RATINGS					
Voltage rating		V	230	208		
Available voltage r	ange	V	VAC 18	87 - 253		
Max. Running am	peres*	А	18.2	20.1		
Power input		W	3,840	3,840		
	(17°F)**	W	-			
Back-up Heater		kW	-	_		
	protection (Indoor/Outdoor)	А	15	/ 35		
FEATURES						
Controls				ocessor		
Low ambient contr	ol			in 0°F		
Fan speeds Indoo				control / Variable		
	Wired Remote Controller			RTC2		
Optional Wireless			CZ-RWSU2U			
Air deflection (Hori	zontal / Vertical)		— / Automatic (Vertical)			
Air filter			Washable, long life (2,500 hr)			
Drain pump (Drain	connection)		— (20A , OD26mm)			
Compressor				tary		
Operation sound	Indoor - Hi/Me/Lo			10 / 35		
	Outdoor - Hi	dB - A		52		
Refrigerant control			Electronic Expan	sion Valve (MOV)		
REFRIGERANT TUE						
Limit of tubing leng		ft. (m)		(50)		
Limit of tubing leng		ft. (m)		0 (3~30)		
Limit of elevation of		ft. (m)		nan indoor unit : 100 (30)		
between the two u		ft. (m)		nan indoor unit : 50 (15)		
Refrigerant tube	Narrow tube	in. (mm)		(9.52)		
outer diameter	Wide tube	in. (mm)		(15.88)		
Refrigerant amoun	•	lbs. (kg)	6.2(2.8) -			
DIMENSIONS & WE	-	i ()	Indoor unit	Outdoor unit		
Unit dimensions	Height	in. (mm)	9-7/16 (240)	30- 23/32 (780)		
	Width	in. (mm) in. (mm)	62-1/32 (1,575)	37 (940)		
Dealer P. 1	Depth		26-3/8 (670)	13- 3/8 (340)		
Package dimensio	Package dimensions		Indoor unit	Outdoor unit		
	Height		12-15/32 (317)	34- 31/32 (888)		
	Width	in. (mm)	66-1/16 (1,678)	39- 31/32 (1,015)		
No. 111	Depth	in. (mm)	31-1/16 (789)	16- 3/32 (409)		
Net weight		lbs. (kg)	84 (38)	143 (65)		
Shipping weight		lbs. (kg)	97 (44)	161 (73)		
Shipping volume		cu.ft. (m ³)	14.8 (0.420) 13.0 (0.369) DATA SUBJECT TO CHANGE WITHOUT NOTICE.			

DATA SUBJECT TO CHANGE WITHOUT NOTICE.

Cooling:

Rating conditions (*): Room temperature 80 °F DB / 67 °F WB, Ambient temperature 95 °F DB / 75 °F WB

Heating:

Ceiling (Type T1)

MODEL No.	Indoor Un	it I	S-42PT1U6			
-	Outdoor Ur		U-42PS			
P(OWER SOURCE		230 - 208V / 1			
	ERFORMANCE		Cooling			
Capacity * [minimu		BTU / h		500~39,000]		
Capacity [Illininic	(17°F)**	BTU / h	- 35,000 [5,5	_		
Moisture removal (Pints / h	12	2.6		
Air circulation (H /		CFM		050 / 775		
External Static Pre		in. WG	1130 / 9	150 / 775		
				-		
S.E.E.R. / H.S.P.F		BTU / Wh	15	0.6		
	CTRICAL RATINGS	1 1/	000	200		
Voltage rating		V	230	208		
Available voltage r		V		37 - 253		
Max. Running amp	peres*	A	21.1	23.3		
Power input	/4 ¬° ⊏\++	W	4,140	4,140		
<u> </u>	(17°F)**	W		_		
Back-up Heater		kW				
	protection (Indoor/Outdoor)	A	15 .	/ 40		
FEATURES						
Controls				ocessor		
Low ambient contr				in 0°F		
Fan speeds Indoor				control / Variable		
Wired Remote Cor			CZ-RTC2			
Optional Wireless			CZ-RWSU2U			
Air deflection (Hori	zontal / Vertical)		— / Automa	tic (Vertical)		
Air filter			Washable, long life (2,500 hr)			
Drain pump (Drain	connection)		— (20A , OD26mm)			
Compressor			Rotary			
Operation sound	Indoor - Hi/Me/Lo	dB - A	44 / 4	1 / 37		
	Outdoor - Hi	dB - A	5	3		
Refrigerant control			Electronic Expans	sion Valve (MOV)		
REFRIGERANT TUE	BING					
Limit of tubing leng	gth	ft. (m)	165	(50)		
Limit of tubing leng	gth at shipment	ft. (m)) (3~30)		
Limit of elevation of	lifference	ft. (m)	Outdoor unit is higher th	an indoor unit : 100 (30)		
between the two u	nits	ft. (m)	Outdoor unit is lower th	nan indoor unit : 50 (15)		
Refrigerant tube	Narrow tube	in. (mm)	3/8	(9.52)		
outer diameter	Wide tube	in. (mm)	5/8((15.88)		
Refrigerant amoun	t at shipment	lbs. (kg)	7.9 (3.6) -			
DIMENSIONS & WE	IGHT		Indoor unit	Outdoor unit		
Unit dimensions	Height	in. (mm)	9-7/16 (240)	48-7/16 (1,230)		
	Width	in. (mm)	62-1/32 (1,575)	37 (940)		
	Depth	in. (mm)	26-3/8 (670)	13- 3/8 (340)		
Package dimensio	Package dimensions		Indoor unit	Outdoor unit		
Height		in. (mm)	12-15/32 (317)	52-3/8 (1,330)		
	Width		66-1/16 (1,678)	39- 31/32 (1,015)		
	Depth	in. (mm) in. (mm)	31-1/16 (789)	16- 3/32 (409)		
Net weight	1-0601	lbs. (kg)	84 (38)	220 (100)		
Shipping weight		lbs. (kg)	97 (44)	240 (109)		
Shipping volume		cu.ft. (m ³)	14.8 (0.420)	19.5 (0.552)		
Snipping volume		Julia (111)				

DATA SUBJECT TO CHANGE WITHOUT NOTICE.

Cooling:

Rating conditions (*): Room temperature 80 °F DB / 67 °F WB, Ambient temperature 95 °F DB / 75 °F WB

Heating:

Low Silhouette Ducted (Type F1)

MODEL No.	Indoor Uni	t	S-26PF1U6				
	Outdoor Ur	nit		U-26PE1U6			
P	OWER SOURCE		230 - 208V / 1 Phase / 60Hz			Z	
Р	ERFORMANCE		Coo	ling	Hea	ating	
Capacity * [minimu	ım~muximum]	BTU / h		00~24,000]			
	(17°F)**	BTU / h				100	
Moisture removal	, ,	Pints / h	7.7	7		_	
Air circulation (H /		CFM			30 / 460		
External Static Pre		in.WG	0.2:at		4:using jumpe	er cable	
S.E.E.R. / H.S.P.F		BTU / Wh	14.		9.		
	CTRICAL RATINGS			-			
Voltage rating		l v	230	208	230	208	
Available voltage r	ange	V	VAC 18			37 - 253	
Max. Running amperes		A	13.6	15.0	12.5	13.8	
Power input	·	W	2,600	2,600	2,400	2,400	
I I onor input	(17°F)**	W		-	1,980	1,980	
Back-up Heater	\''' ' /	kW		_		.,	
	protection (Indoor/Outdoor)	A		15	/ 30		
FEATURES	(, , , , , , , , , , , , , , , , , , ,		107	, 00		
Controls				Micropr	rocessor		
Low ambient contr	.ol				in 0°F		
Fan speeds Indoo			3 ar		control / Varia	able	
Wired Remote Cor			CZ-RTC2			20.0	
	Remote Controller		CZ-RWSC1U				
Air deflection (Hor			-				
Air filter	izoniai / Vorticai /			_	_		
Drain pump (Drain	connection)		Max.head 2-33/64 in. above drain connection (25A, OD32mm				
Compressor	Connection		Rotary				
Operation sound	Indoor - Hi/Me/Lo	dB - A			30 / 27		
Operation sound	Outdoor - Hi	dB - A			.9		
Refrigerant contro		UD - A	Flec			O(V)	
REFRIGERANT TUE			Electronic Expansion Valve (MOV)			O V)	
Limit of tubing leng		ft. (m)	165 (50)				
Limit of tubing leng	ath at chinmont	ft. (m)			(3~30)		
Limit of elevation of	difference	ft. (m)	Outdoor un		an indoor uni	t · 100 (30)	
between the two u		ft. (m)			nan indoor uni		
Refrigerant tube	Narrow tube	in. (mm)	- Cataoor a		(9.52)	1.00 (10)	
outer diameter	Wide tube	in. (mm)			(15.88)		
Refrigerant amour		lbs. (kg)		4.2 (1.9) -			
DIMENSIONS & WE		i ios. (kg)	Indoor			or unit	
Unit dimensions	Height	in. (mm)	12-7/32		30- 23/3		
Offic difficusions	Width	in. (mm)	39-3/8 (940)	
	Depth		24-13/1	,		3 (340)	
Packago dimensio		in. (mm)	Indoor			or unit	
Fackage ullilerisio	Package dimensions						
	Height	in. (mm)	14-3/32			32 (888)	
	Width	in. (mm)	46-7/8 (2 (1,015)	
Notweight	Depth	in. (mm)	30-13/1			2 (409)	
Net weight		lbs. (kg)	71 ((58)	
Shipping weight		lbs. (kg)	82 ((67)	
Shipping volume		cu.ft. (m ³)	11.8 (0.334) 13.0 (0.369) DATA SUBJECT TO CHANGE WITHOUT NO				

DATA SUBJECT TO CHANGE WITHOUT NOTICE.

Cooling:

Rating conditions (*): Room temperature 80 °F DB / 67 °F WB, Ambient temperature 95 °F DB / 75 °F WB

Heating:

Low Silhouette Ducted (Type F1)

MODEL No.	Indoor Uni			S-36P				
	Outdoor Un	nit		U-36P				
	OWER SOURCE		2	30 - 208V / 1	Phase / 60H	Z		
	ERFORMANCE		Coo			ating		
Capacity * [minimu	ım~muximum]	BTU / h		00~31,200]		00~36,200]		
	(17°F)**	BTU/h		_	20,	200		
Moisture removal		Pints / h	10.		_	_		
Air circulation (H /		CFM			920 / 750			
External Static Pre		in. WG	0.24:at	shipment / 0	.4:using jump	er cable		
S.E.E.R. / H.S.P.F		BTU / Wh	13.	9	8.	.5		
	CTRICAL RATINGS							
Voltage rating		V	230	208	230	208		
Available voltage r		V	VAC 18			37 - 253		
Max. Running am	peres*	А	18.6	20.6	15.9	17.6		
Power input		W	3,920	3,920	3,340	3,340		
	(17°F)**	W	_	_	2,570	2,570		
Back-up Heater		kW			_			
	protection (Indoor/Outdoor)	A		15	/ 35			
FEATURES								
Controls					ocessor			
Low ambient contr					in 0°F			
Fan speeds Indoor			3 ar		control / Varia	able		
Wired Remote Cor			CZ-RTC2					
Optional Wireless				CZ-RV	/SC1U			
Air deflection (Hori	zontal / Vertical)				_			
Air filter					-			
Drain pump (Drain	connection)		Max.head 2-33/			25A , OD32mm)		
Compressor	1 1 12/04 //	-ID A			tary			
Operation sound	Indoor - Hi/Me/Lo				3 / 31			
Define we make a surfue	Outdoor - Hi	dB - A	По		52			
Refrigerant control REFRIGERANT TUE			Elec	tronic Expans	sion Valve (MOV)			
		ft (m)		165	(50)			
Limit of tubing leng		ft. (m) ft. (m)		10~100	(50)			
Limit of tubing leng		ft. (m)	Outdoorur		an indoor uni	+ · 100 (20)		
between the two u		ft. (m)			nan indoor uni			
Refrigerant tube	Narrow tube	in. (mm)	- Caldool d		(9.52)	1.30 (13)		
outer diameter	Wide tube	in. (mm)			(15.88)			
Refrigerant amour		lbs. (kg)		6.2 (2.8) -				
DIMENSIONS & WE		100. (Ng)	Indooi			or unit		
Unit dimensions	Height	in. (mm)	12-7/32		30- 23/3			
	Width	in. (mm)	58-9/32			940)		
	Depth		24-13/1			3 (340)		
Package dimensio		in. (mm)	Indooi			or unit		
	Height	in. (mm)	14-3/32		34- 31/32 (888)			
	Width	in. (mm)	· · · · · · · · · · · · · · · · · · ·		39- 31/32 (1,015)			
	Depth	in. (mm)			16- 3/32 (409)			
Net weight	1 -1	lbs. (kg)	104		143 (65)			
Shipping weight		lbs. (kg)	115	` ,		(73)		
Shipping volume		cu.ft. (m ³)	16.5 (0			0.369)		
or appling volume		L outile (III)						

DATA SUBJECT TO CHANGE WITHOUT NOTICE.

Cooling:

Rating conditions (*): Room temperature 80 °F DB / 67 °F WB, Ambient temperature 95 °F DB / 75 °F WB

Heating:

Low Silhouette Ducted (Type F1)

MODEL No.	Indoor Uni	t	S-26F	PF1U6				
	Outdoor Un	nit	U-26F	PS1U6				
P	OWER SOURCE		230 - 208V / 1	Phase / 60Hz				
Р	ERFORMANCE		Cooling					
Capacity * [minimu	ım~muximum]	BTU/h	24,000 [9,500~24,000]					
	(17°F)**	BTU / h	-	-				
Moisture removal	(High)	Pints / h	7	.7				
Air circulation (H /	M / L) 230 V	CFM	670 / 5	30 / 460				
External Static Pre	essure	in. WG	0.2:at shipment / 0.	4:using jumper cable				
S.E.E.R. / H.S.P.F	. (Region 4)	BTU / Wh	14	1.0				
ELEC	CTRICAL RATINGS							
Voltage rating		V	230	208				
Available voltage i	range	V	VAC 18	87 - 253				
Max. Running am	peres*	A	13.6	15.0				
Power input		W	2,600	2,600				
	(17°F)**	W	_					
Back-up Heater		kW	_	_				
	protection (Indoor/Outdoor)	А	15	/ 30				
FEATURES								
Controls			Micropro					
Low ambient contr	ol		Built-	in 0°F				
Fan speeds Indoo	r / Outdoor		3 and Automatic	control / Variable				
Wired Remote Co	ntroller			RTC2				
Optional Wireless	Remote Controller		CZ-RV	VSC1U				
Air deflection (Hor	izontal / Vertical)		_	_				
Air filter			_	<u> </u>				
Drain pump (Drain	connection)			ain connection (25A , OD32mm)				
Compressor				tary				
Operation sound	Indoor - Hi/Me/Lo		34 / 3					
	Outdoor - Hi	dB - A		! 9				
Refrigerant contro			Electronic Expan	sion Valve (MOV)				
REFRIGERANT TUE								
Limit of tubing leng		ft. (m)		(50)				
Limit of tubing leng		ft. (m)		0 (3~30)				
Limit of elevation of		ft. (m)		nan indoor unit : 100 (30)				
between the two u		ft. (m)		nan indoor unit : 50 (15)				
Refrigerant tube	Narrow tube	in. (mm)		(9.52)				
outer diameter	Wide tube	in. (mm)		(15.88)				
Refrigerant amour		lbs. (kg)	4.2 (1.9)					
DIMENSIONS & WE			Indoor unit	Outdoor unit				
Unit dimensions	Height	in. (mm)	12-7/32 (310)	30- 23/32 (780)				
	Width	in. (mm)	39-3/8 (1,000)	37 (940)				
D	Depth	in. (mm)	24-13/16 (630)	13- 3/8 (340)				
Package dimension		. , ,	Indoor unit	Outdoor unit				
	Height	in. (mm)	14-3/32 (358)	34- 31/32 (888)				
	Width	in. (mm)	46-7/8 (1,191)	39- 31/32 (1,015)				
N	Depth	in. (mm)	30-13/16 (783)	16- 3/32 (409)				
Net weight		lbs. (kg)	71 (32)	128 (58)				
Shipping weight		lbs. (kg)	(g) 82 (37) 148 (67)					
Shipping volume		cu.ft. (m³)	11.8 (0.334)	13.0 (0.369)				

DATA SUBJECT TO CHANGE WITHOUT NOTICE.

Cooling:

Rating conditions (*): Room temperature 80 °F DB / 67 °F WB, Ambient temperature 95 °F DB / 75 °F WB

Heating:

Low Silhouette Ducted (Type F1)

MODEL No.	Indoor Uni	t	S-36PI	-1U6			
	Outdoor Un	iit	U-36PS	S1U6			
PC	OWER SOURCE		230 - 208V / 1	Phase / 60Hz			
P	ERFORMANCE		Cooling				
Capacity * [minimu	ım~muximum]	BTU / h	31,200 [9,5	00~31,200]			
	(17°F)**	BTU/h	_	_			
Moisture removal ((High)	Pints / h	10	.0			
Air circulation (H /	M / L) 230 V	CFM	1060 / 9	920/ 750			
External Static Pre		in. WG		.4:using jumper cable			
S.E.E.R. / H.S.P.F		BTU / Wh	13	.9			
	CTRICAL RATINGS						
Voltage rating		V	230	208			
Available voltage r		V		37 - 253			
Max. Running amp	peres*	A	18.6	20.6			
Power input		W	3,920	3,920			
	(17°F)**	W	-	_			
Back-up Heater		kW		_			
	protection (Indoor/Outdoor)	A	15	/ 35			
FEATURES							
Controls			Micropro				
Low ambient contr				in 0°F			
Fan speeds Indoor				control / Variable			
Wired Remote Cor			CZ-RTC2 CZ-RWSC1U				
Optional Wireless			CZ-RW	/SC1U			
Air deflection (Hori	izontal / Vertical)		_	_			
Air filter				— (OF A ODO)			
Drain pump (Drain	connection)		Max.head 2-33/64 in. above drain connection (25A, OD32n Rotary				
Compressor	Indoor - Hi/Me/Lo	۸D ۸		33 / 31			
Operation sound		dB - A dB - A					
Refrigerant control	Outdoor - Hi	UD - A	Electronic Expans	52			
REFRIGERANT TUE			Liectionic Expans	sion vaive (WOV)			
Limit of tubing leng		ft. (m)	165	(50)			
Limit of tubing leng		ft. (m)		0 (3~30)			
Limit of tability length		ft. (m)		an indoor unit : 100 (30)			
between the two u		ft. (m)		nan indoor unit : 50 (15)			
Refrigerant tube	Narrow tube	in. (mm)		(9.52)			
outer diameter	Wide tube	in. (mm)		(15.88)			
Refrigerant amoun		lbs. (kg)	6.2 (2.8) -				
DIMENSIONS & WE			Indoor unit	Outdoor unit			
Unit dimensions	Height	in. (mm)	12-7/32 (310)	30- 23/32 (780)			
	Width	in. (mm)	58-9/32 (1,480)	37 (940)			
	Depth	in. (mm)	24-13/16 (630)	13- 3/8 (340)			
Package dimensio		, ,	Indoor unit	Outdoor unit			
	Height	in. (mm)	14-3/32 (358)	34- 31/32 (888)			
	Width	in. (mm)	65-25/32 (1,671)	39- 31/32 (1,015)			
	Depth	in. (mm)	30-13/16 (783)	16- 3/32 (409)			
Net weight		lbs. (kg)	104 (47)	143 (65)			
011111		lbs. (kg)	115 (52)	161 (73)			
Shipping weight		IDS. (Kg)	113 (32)	101 (73)			

DATA SUBJECT TO CHANGE WITHOUT NOTICE.

Cooling:

Rating conditions (*): Room temperature 80 °F DB / 67 °F WB, Ambient temperature 95 °F DB / 75 °F WB

Heating:

4-Way Cassette 36" × 36" (Type U2)

NOCOE NOCE C.2-99(PUSU) U-29FEUIG	_		INDOOD	MOF)EI		C OCDITOLIC		1			1	
OUTDOOR MODEL Branch pipe MODEL PERFORMANCE TEST CONDITION MODEL MODEL PERFORMANCE TEST CONDITION MODEL MODE	\vdash							ı					
Branch pipe							02 00Ki 000		<u> </u>	U-26PE1U6	3		
POWER SUPPLY POWER				MOE	DEL				•	-			
CAPACITY '1 SIUM 24800 230 230 30 Min Max 73 73 73 73 73 73 73 7			PERFORMANCE TE						ARI Star				
CAPACITY*1		PO	WER SUPPLY			222					1		
CAPACITY** BTUTN A 0.37 O INPUT POWER** IN SEER TOTAL W 40 40 - 2690 2690 SEER TOTAL W 40 40 - 2690 2690 SEER TOTAL W SEER TOTAL W 10 40 - 2690 2690 SEER TOTAL W 10 50 ER NOISE INDOOR POWER FACTOR BLUE BLUE BLUE BLUE BLUE BLUE BLUE BLUE	Н							-	208	230	-	+	IVIax
CURRENT "1 '4			CAPACITY *1					-					24800
INPUT POWER *1	_		CURRENT *1 *4						16 1	14 6	_		
FER			i					-			-		-
SEER		111		TOTA	L W		-		2730	2730	-	580	2730
NOISE NDOOR GB-A(HML) 37/31/28 80 80 80 80 80 80 80				-							+	16.4	9.1
NOISE INDOOR	١ī٠										+		
NOISE NUDOR	N -	P	OWER FACTOR			-		-	80	80	-		
NOISE OUTDOOR	G	N	NOISE INDOOR										
CAPACITY '2	i t	NIC.	OLOF OLITBOOR				-			49			
CAPACITY 2	Ш	INC	JISE OUTDOOR	Power L	evel dB					-			
CURRENT '2 '4			CAPACITY *2										-
H								-	45.0	10.0		1	28600
H H H H H H H H H H	-		i					-			 -		-
COP - - -	ΙнΙ	IN	IPUT POWER *2			40		_					
HSPF			(COP)			-		_			+		
H3y-3 CAPACITY BTU/h - 16200 16200 -				-		-	-	-			-	\	
Note						-	-	-			-]\	
POWER FACTOR											+	\	
NOISE INDOOR												<u> </u>	
NOISE NOUTOOR Power Level dB	G					-		-	80	•	-	 \	
NOISE OUTDOOR		N	NOISE INDOOR									 \	
MAX CURRENT (A)/MAX INPUT POWER (W) 0.37/40 0.33/40 - 16.5/2.75k 16.5/3.04k -	l i		OLOF OLITBOOR			i i						i \	
NETWORK IMPEDANCE (OMAX.)	Ш	N	JISE OUTDOOR	Power L	evel dB	l l				-			
MINIMUM CIRCUIT AMPACITY (A) 15		MA				0.37/40		-	16.5/2.75k	16.5/3.04k	-		
MAXIMUM OVERCURRENT PROTECTION (A)	<u> </u>									<u>-</u>		 	
DISCONNECT SWITCH CAPACITY (A) 15	<u> — </u>	MAX							-			 	
OUTDOOR FAN MOTOR AMPERES (A) COOL/HEAT - 0.9/0.9 0.9/0.9 -	\vdash								1			 	
COMPRESSOR AMPERES (A)	Oi								0.9 / 0.9		-	\	
COMPRESSOR RATED LOAD AMPERES (A) - 12.9						-					\ \		
OUTDOOR HIGH SIDE MPa , psi. -													
DESIGN PRESSURE	<u> </u>											\	
MOISTURE REMOVAL VOLUME									-			 	
MOISTURE REMOVAL VOLUME L/h, Pints/h 2.2, 4.6	\vdash	DESI			i wea, psi.)	\ \	
Extarnal static pressure		MO			L/h, Pints/h					-		i \	
FLOW			Extarnal static pressi		Pa, in.WC		-						
O/D AIR FLOW COOL HEAT m³/min, ft³/min (CFM) 50, 1766 REFRIGERANT TYPE, AMOUNT g, lb, (oz) R410A, - R410A, 1.90k, 4.2, (67.0) P D HEIGHT: H mm (inch) 256 (10-5/64) 780 (30-23/32) R I WIDTH: W mm (inch) 840 (33-5/64) 940 (37) O M DEPTH: D mm (inch) 840 (33-5/64) 340 (13-3/8) P D HEIGHT: H mm (inch) 298 (11-47/64) 888 (34-31/32) A I WIDTH: W mm (inch) 929 (36-37/64) 1015 (39-31/32) C M DEPTH: D mm (inch) 929 (36-37/64) 409 (16-3/32) MASS (RROSS) kg (lb) 30 (67) 67 (148) LAYERS LIMIT ID/OD (actually) 11 (12) 3 (4) LAYERS LIMIT ID/OD (actually) 11 (12) 3 (4) P PIPE DIAMETER mm (inch) (Liquid) 99.52 (3/8) (Gas) Ø15.88 (5/8) (Liquid) Ø9.52 (3/8) (Gas) Ø15.88 (5/8) P PIPE DIAMETER mm (inch) (Liquid) 99.52 (3/8) (Gas) Ø15.88 (5/8) (Liquid) Ø9.52 (3/8) (Gas) Ø15.88 (5/8) P PIPE LENGTH RANGE m (ft) 3 ~ 50 (10 ~ 165) N JOBAO'D HEIGHT DIFFERENCE m (ft) 15 (OD located lower) /30 (OD located higher) (50/100) ADD GAS AMOUNT g/m (oz/ft) 40 (0.43)													Λ
FLOW						22/1	<u>7/14, 777/600</u>	0/494		FO 4700			1
REFRIGERANT TYPE, AMOUNT g, lb, (oz) R410A, - R410A, 1.90k, 4.2, (67.0) P D HEIGHT: H mm (inch) R1 WIDTH: W mm (inch) R40 (33-5/64) P D HEIGHT: H mm (inch) R40 (33-5/64) R40 (33-5													
P D HEIGHT: H mm (inch) 256 (10-5/64) 780 (30-23/32) R I WIDTH: W mm (inch) 840 (33-5/64) 940 (37) O M DEPTH: D mm (inch) 840 (33-5/64) 340 (13-3/8) P D HEIGHT: H mm (inch) 298 (11-47/64) 888 (34-31/32) A I WIDTH: W mm (inch) 929 (36-37/64) 1015 (39-31/32) C M DEPTH: D mm (inch) 929 (36-37/64) 409 (16-3/32) MASS (NET) kg (lb) 24 (53) 58 (128) (GROSS) kg (lb) 30 (67) 67 (148) LAYERS LIMIT ID/OD (actually) 11 (12) 3 (4) Operation Condition Cool (DBT) 18°C ~ 32°C (64°F ~ 90°F) -10°C ~ 46°C (14°F ~ 115°F) CONDITION FOR CONSIDER Heat (DBT) 16°C ~ 30°C (61°F ~ 86°F) -20°C ~ 24°C (-4°F ~ 75°F) PIPE DIAMETER mm (inch) (Liquid) ø9.52 (3/8) (Gas) ø15.88 (5/8) (Liquid) ø9.52 (3/8) (Gas) ø15.88 (5/8) PIPE LENGTH RANGE m (ft) 3 ~ 50 (10 ~ 165) N OD GAS AMOUNT g/m (oz/ft) 15 (OD located lower)/30 (OD located higher) (50/100)							R410A		R410		. (67.0)		1
O M DEPTH : D mm (inch) 840 (33-5/64) 340 (13-3/8) P D HEIGHT : H mm (inch) 298 (11-47/64) 888 (34-31/32) A I WIDTH : W mm (inch) 929 (36-37/64) 1015 (39-31/32) C M DEPTH : D mm (inch) 929 (36-37/64) 409 (16-3/32) MASS (NET) kg (lb) 24 (53) 58 (128) (GROSS) kg (lb) 30 (67) 67 (148) LAYERS LIMIT ID/OD (actually) 11 (12) 3 (4) Operation Cool (DBT) 18°C ~ 32°C (64°F ~ 90°F) -10°C ~ 46°C (14°F ~ 115°F) Condition Heat (DBT) 16°C ~ 30°C (61°F ~ 86°F) -20°C ~ 24°C (-4°F ~ 75°F) PIPE DIAMETER mm (inch) (Liquid) Ø9.52 (3/8) (Gas) Ø15.88 (5/8) (Liquid) Ø9.52 (3/8) (Gas) Ø15.88 (5/8) PIPE LENGTH RANGE m (ft) 3 ~ 50 (10 ~ 165) I/D&O/D HEIGHT DIFFERENCE m (ft) 15 (OD located lower)/30 (OD located higher) (50/100) ADD GAS AMOUNT g/m (oz/ft) 40 (0.43)	Р)					
P D HEIGHT: H mm (inch)			WIDTH	: W mm (inch)									
A I WIDTH: W mm (inch) 929 (36-37/64) 1015 (39-31/32) C M DEPTH: D mm (inch) 929 (36-37/64) 409 (16-3/32) MASS (NET) kg (lb) 24 (53) 58 (128) (GROSS) kg (lb) 30 (67) 67 (148) LAYERS LIMIT ID/OD (actually) 11 (12) 3 (4) Operation Condition Heat (DBT) 18°C ~ 32°C (64°F ~ 90°F) -10°C ~ 46°C (14°F ~ 115°F) Condition Heat (DBT) 16°C ~ 30°C (61°F ~ 86°F) -20°C ~ 24°C (-4°F ~ 75°F) PIPE DIAMETER mm (inch) (Liquid) ø9.52 (3/8) (Gas) ø15.88 (5/8) (Liquid) ø9.52 (3/8) (Gas) ø15.88 (5/8) CONNECT METHOD flared type flared type STD LENGTH m (ft) 7-6 (25) PIPE LENGTH RANGE m (ft) 3 ~ 50 (10 ~ 165) I/D&O/D HEIGHT DIFFERENCE m (ft) 15 (OD located lower) /30 (OD located higher) (50/100) ADD GAS AMOUNT g/m (oz/ft) 40 (0.43)			DEPTH	: D mm (inch)						340 (13-3/8)		
C M DEPTH : D mm (inch) 929 (36-37/64) 409 (16-3/32) MASS (NET) kg (lb) 24 (53) 58 (128) (NET) kg (lb) 30 (67) 67 (148) LAYERS LIMIT ID/OD (actually) 11 (12) 3 (4) Operation Cool (DBT) 18°C ~ 32°C (64°F ~ 90°F) -10°C ~ 46°C (14°F ~ 115°F) Condition Heat (DBT) 16°C ~ 30°C (61°F ~ 86°F) -20°C ~ 24°C (-4°F ~ 75°F) PIPE DIAMETER mm (inch) (Liquid) ø9.52 (3/8) (Gas) ø15.88 (5/8) (Liquid) ø9.52 (3/8) (Gas) ø15.88 (5/8) CONNECT METHOD flared type flared type STD LENGTH m (ft) 7.6 (25) PIPE LENGTH RANGE m (ft) 3 ~ 50 (10 ~ 165) I/D&O/D HEIGHT DIFFERENCE m (ft) 15 (OD located lower) /30 (OD located higher) (50/100) ADD GAS AMOUNT g/m (oz/ft) 40 (0.43)													
MASS (NET) kg (lb) 24 (53) 58 (128) (GROSS) kg (lb) 30 (67) 67 (148) LAYERS LIMIT ID/OD (actually) 11 (12) 3 (4) Operation Cool (DBT) 18°C ~ 32°C (64°F ~ 90°F) -10°C ~ 46°C (14°F ~ 115°F) Condition Heat (DBT) 16°C ~ 30°C (61°F ~ 86°F) -20°C ~ 24°C (-4°F ~ 75°F) PIPE DIAMETER mm (inch) (Liquid) Ø9.52 (3/8) (Gas) Ø15.88 (5/8) (Liquid) Ø9.52 (3/8) (Gas) Ø15.88 (5/8) CONNECT METHOD flared type flared type STD LENGTH m (ft) 7.6 (25) PIPE LENGTH RANGE m (ft) 3 ~ 50 (10 ~ 165) I/D&O/D HEIGHT DIFFERENCE m (ft) 15 (OD located lower) /30 (OD located higher) (50/100) ADD GAS AMOUNT g/m (oz/ft) 40 (0.43)													
Condition Cool (DBT) 18°C ~ 32°C (64°F ~ 90°F) -10°C ~ 46°C (14°F ~ 115°F)								F)			-)		
LAYERS LIMIT ID/OD (actually)	I MA												
Condition		LAYERS LIMIT ID/OD (actually)					11 (12)			3 (4)			\
P		Operation Cool (DBT											
CONNECT METHOD flared type flared type STD LENGTH m (ft) 7.6 (25) P PIPE LENGTH RANGE m (ft) 3 ~ 50 (10 ~ 165) V/D&O/D HEIGHT DIFFERENCE m (ft) 15 (OD located lower) /30 (OD located higher) (50/100) ADD GAS AMOUNT g/m (oz/ft) 40 (0.43)	<u> </u>												
STD LENGTH m (ft)	P					(∟iquid) Ø9.5		(8/d) 88.cr					
PIPE LENGTH RANGE m (ft) 3 ~ 50 (10 ~ 165) I/D&O/D HEIGHT DIFFERENCE m (ft) 15 (OD located lower) /30 (OD located higher) (50/100) ADD GAS AMOUNT g/m (oz/ft) 40 (0.43)		STD LENGTH m (ft)					патей туре	7.6					
N I/D&O/D HEIGHT DIFFERENCE m (ft) 15 (OD located lower) /30 (OD located higher) (50/100) ADD GAS AMOUNT g/m (oz/ft) 40 (0.43)	P												
ADD GAS AMOUNT g/m ($0Z/\pi$) 40 (0.43)			I/D&O/D HEIGHT D	IFFERENCE r	m (ft)	15	(OD located	d lower) /30 (OD located h	igher) (50/10	00)		\
~ PIPE LENGTH FOR ADDITIONAL GAS m (ft) 30 (100)									(0.43)				
		P	PIPE LENGTH FOR AD	DITIONAL GA	S m (ft)			30 (100)				\

^{*1:}Rating conditions : Room temperature 80 °F DB / 67 °F WB (26.7 °C DB / 19.4 °C WB), Ambient temperature 95 °F DB / 75 °F WB (35.0 °C DB / 23.9 °C WB).

^{*2:}Rating conditions : Room temperature 70 °F DB / 60 °F WB (21.1 °C DB / 15.6 °C WB), Ambient temperature 47 °F DB / 43 °F WB (8.3 °C DB / 6.1 °C WB).

^{*3:}Low temp conditions : Room temperature 70 °F DB / 60 °F WB (21.1°C DB / 15.6°C WB), Ambient temperature 17 °F DB / 15 °F WB (-8.3°C DB / -9.4°C WB).

^{*4:}INDOOR CURRENT="INDOOR FAN MOTOR LOAD"

4-Way Cassette 36" × 36" (Type U2)

		INDOOR	MO			S-36PU2U6						
		PANEL	MO MO	DEL		CZ-36KPU3U	l		- U-36PE1U6			
\vdash		OUTDOOR Branch pipe	MO						- -			
		PERFORMANCE TE	ST CONDITIC	N				ARI Stan	dard 210/240)		
	PO	WER SUPPLY		, Hz /	208	1PH, 60Hz 230	-	208	1PH, 60Hz 230	-	Min	Max
		0.4.D.4.0.IT./.#./		N	9.6	9.6	-	200	230	-	-	IVIAX
		CAPACITY *1		U/h	32600	32600	-				9500	32600
С	(CURRENT *1 *4	V	A	0.75	0.71	-	20.3	18.4	-	-	-
0	IN.	IPUT POWER *1		AL W	95	95 -	-	3845 3940	3845 3940	-	- 580	3940
O L		EER			-	-	-	8.3	8.3	-	16.4	8.3
Ιī		SEER						16.0	16.0	-		
N		OWER FACTOR	dB-A (-	44/38/32	-	91	91	-		1
G	1	NOISE INDOOR		evel dB		-					`	
	N	OISE OUTDOOR		\ (H)		-			52			
\vdash			Power L	evei aB	10.8	10.8	_				_	
ı		CAPACITY *2		U/h	37000	37000	-				8000	37000
		CURRENT *2 *4		A	0.68	0.65	-	17.5	15.8	-	-	-
Н	IN.	IPUT POWER *2	V TOTA	AL W	85	85 -	-	3315 3400	3315 3400	-	465	3400
Ë		(COP)		- VV	-	-	-	(10.9)	(10.9)	-	17.2	10.9
A		HSPF			-	-	-	9.0	9.0	-	\	
T	(HSPF H3 ₂ *3	(CANADA REGIONS)) CAPACITY		 U/h	-	-	-	(7.2) 18300	(7.2) 18300	-	 	
'n	(17°F)			AL W	-	-	-	2340	2340	-	 	
G	P	OWER FACTOR		6	-	-	-	91	91	-		
	۱ ا	NOISE INDOOR	dB-A (44/38/32			-		 \	
	Power Level dB MB-A (H)				-				52		 	1
		OISE OUTDOOR	Power L		-				-			
_	MA	AX CURRENT (A)/MAX NETWORK IMPED			0.75/95	0.71/95	-	19.0/3.60k	19.0/3.98k	-	- \	
\vdash		MINIMUM CIRCUIT				 15			21		- \ -	
		XIMUM OVERCURREI	NT PROTECTI	ÓN (A)		15			35			
\vdash		DISCONNECT SWITCOR FAN MOTOR A				15 -		1.0 / 1.0	0.9 / 0.9	ı	 	
\vdash		OMPRESSOR AMPER		COOL/HEAT				12.8 / 15.7		-	 	-
		PRESSOR LOCKED-F				-			17.5			
_		MPRESSOR RATED OUTDOOR	LOAD AMPER HIGH SIDE			-			15.7		\	
		GN PRESSURE	LOW SIDE			-			(1.63), 236		\	
		FM OUTPUT ((ID/OD) W			90			90			
-	MC	DISTURE REMOVAL V Extarnal static pression		L/h, Pints/h Pa, in.WC		2.1, 4.4			-		\	
I/E	AIR	COOL (H/M/L)	m ³ /min, ft ³ /		33/27	7/21, 1165/95	3/742		_			1
	_OW	HEAT (H/M/L)	m³/min, ft³		33/27	7/21, 1165/95	3/742					1\
	D AIR OW	COOL HEAT	m ³ /min, ft ³ / m ³ /min, ft ³ /						55, 1942 55, 1942			
<u> </u>		REFRIGERANT TYPE,				R410A, -		R410	A, 2.80k, 6.2,	(98.8)		' \
Р	D		Γ: H mm (inch)			319 (12-9/16)		7	780 (30-23/32	2)		
R	I M		: W mm (inch)			<u>840 (33-5/64)</u> 840 (33-5/64)			940 (37) 340 (13-3/8)			-
P	D		Γ: H mm (inch)			361 (14-7/32)		8	340 (13-3/6) 388 (34-31/32			
Α	- 1	WIDTH	: W mm (inch)		ę	929 (36-37/64	.)	1	015 (39-31/3	2)		
С	M		: D mm (inch)		9	9 <u>29 (36-37/64</u> 27 (60)	.)		409 (16-3/32 65 (143))		+
M	ASS (NET) kg (lb) (GROSS) kg (lb)					34 (75)			73 (161)			
	LAYERS LIMIT ID/OD (actually)					11 (12)	2205;		3 (4)			
				Cool (DBT) Heat (DBT)		32°C (64°F - 30°C (61°F -			<u>- 46°C (14°F</u> - 24°C (-4°F			
Р	PIPE DIAMETER mm (inch)				30 C (01 1 52 (3/8) (Gas)							
	CONNECT METHOD					flared type		flared type				
P	STD LENGTH m (ft) PIPE LENGTH RANGE m (ft)							(25) 10 ~ 165)				
I		I/D&O/D HEIGHT DIFFERENCE m (ft)				5 (OD located	l lower) /30 ((10 ~ 165) (OD located higher) (50/100)				
N G		ADD GAS AMO	t)			40 (0	0 (0.43)					
بّـــا		PIPE LENGTH FOR AD	DITIONAL GA	S m (tt)			30 (100)				

^{*1:}Rating conditions : Room temperature 80 °F DB / 67 °F WB (26.7 °C DB / 19.4 °C WB), Ambient temperature 95 °F DB / 75 °F WB (35.0 °C DB / 23.9 °C WB).

^{*2:}Rating conditions : Room temperature 70 °F DB / 60 °F WB (21.1°C DB / 15.6°C WB), Ambient temperature 47 °F DB / 43 °F WB (8.3°C DB / 6.1°C WB).

^{*3:}Low temp conditions : Room temperature 70 °F DB / 60 °F WB (21.1°C DB / 15.6°C WB), Ambient temperature 17 °F DB / 15 °F WB (-8.3°C DB / -9.4°C WB).

^{*4:}INDOOR CURRENT="INDOOR FAN MOTOR LOAD"

4-Way Cassette 36" × 36" (Type U2)

		INDOOR	MOD			S-42PU2U6						
_		PANEL	MOD MOD		(CZ-36KPU3L	J		- U-42PE1U6			
\vdash		OUTDOOR Branch pipe	MOD						U-42PE1U6			
		PERFORMANCE TE						ARI Stan	dard 210/24)		
	PO	WER SUPPLY	PH, I	-lz		1PH, 60Hz			1PH, 60Hz			
<u> </u>		WER 0011 E1	V	,	208	230	-	208	230	-	Min	Max
		CAPACITY *1	kW BTU		11.4 39000	11.4 39000	-				14000	39000
		CURRENT *1 *4	A	/11	0.80	0.76	-	25.5	23.1	-	-	-
C		IPUT POWER *1	W		100	100	-	4400	4400	-	-	-
0	111		TOTA	_ W		-		4500	4500	-	950	4500
L		EER SEER	-		-	-	-	8.7 15.6	8.7 15.6	-	14.7	8.7
	P	OWER FACTOR	- %		-	_	-	83	83	-		
N		OISE INDOOR	dB-A (H	/M/L)		45/39/33						
G	IN.	NOISE INDOOR	Power Le			-						
	NO	DISE OUTDOOR	dB-A			-			53			
\vdash			Power Le		14.1	14.1	_		<u>-</u>	I	_	
		CAPACITY *2	BTU		48000	48000	-				13500	48000
	C	CURRENT *2 *4	Α		0.78	0.73	-	24.5	22.1	-	-	-
$ _{H} $	IN	IPUT POWER *2	W	10/	100	100	-	4220	4220	-	- 070	- 4220
E		(COP)	TOTAI	_ VV	-	<u>-</u>	_	4320 (11.1)	4320 (11.1)	-	870 15.5	4320 11.1
Ā		HSPF	-		-	-	-	8.9	8.9	-	15.5	11.1
		(CANADA REGIONS))	-		-	-	-	(7.4)	(7.4)	-	1	
	H3 ₂ *3		BTU		-	-	-	27100	27100	-	\	
N G		INPUT POWER OWER FACTOR	TOTAI	_ VV	-	-	-	3310 83	3310 83	-	 \	
1 4		i	dB-A (H	/M/L)	-	45/39/33	-	05	-		 	
ΙĮ	l N	NOISE INDOOR	Power Le			-			-		\	
	NO	OISE OUTDOOR	dB-A			-			53			
\vdash		X CURRENT (A)/MAX	Power Le		0.80/100	0.76/100	_	25.0/4.32k	- 25 0/4 77k	_	 	
	IVIA	NETWORK IMPED		X (VV)	0.00/100	-	-	23.0/4.32K	- -		 \	
		MINIMUM CIRCUIT	AMPACITY (A)			15			24		\	
		KIMUM OVERCURREN				15			40			
		DISCONNECT SWITC OR FAN MOTOR AI				15 		1.7 / 1.7	1.6 / 1.6	1	 	
H-0		MPRESSOR AMPER		COOL/HEAT					15.0 / 18.1	-	\ \	
	COMF	PRESSOR LOCKED-F	ROTOR AMPER			-			31.0	'	\	
<u></u>		MPRESSOR RATED I				-			18.1		\	
		OUTDOOR GN PRESSURE	HIGH SIDE LOW SIDE	MPa , psi.		-			(3.36), 487 (1.63), 236		\ \	
\vdash	DLSI	FM OUTPUT (ivira, psi.		90			90		\	
	MO	ISTURE REMOVAL V	OLUMÉ	L/h, Pints/h		3.4, 7.1			-		\	
<u></u>		Extarnal static pressi		Pa, in.WC		-						\
	AIR OW	COOL (H/M/L) HEAT (H/M/L)	m ³ /min, ft ³ /n m ³ /min, ft ³ /n			3/22, 1236/98 3/22, 1236/98						A
	DAIR	COOL	m ³ /min, ft ³ /n		33/20	5/22, 1230/90	9/111		100, 3531			1
FL	_ow	HEAT	m³/min, ft³/n	nin (CFM)					100, 3531			
<u> </u>		EFRIGERANT TYPE,		(oz)		R410A, -			3.60k, 7.9,			_
P R	D I		: H mm (inch)			319 (12-9/16) 840 (33-5/64)		1	230 (48-7/16 940 (37)	5)		
Ö	м		: D mm (inch)			840 (33-5/64)			340 (13-3/8)	1		
Р	D		: H mm (inch)		;	361 (14-7/32))		1330 (52-3/8			
A			: W mm (inch)			929 (36-37/64			015 (39-31/3			
C	М		: D mm (inch) ET) kg (lb)		9	929 (36-37/64 27 (60)	.)	4	409 (16-3/32 100 (220))		
M	ASS		OSS) kg (lb)			34 (75)			100 (220)			
	LAYERS LIMIT ID/OD (actually)					11 (12)			2 (3)			
	Operation Cool (DBT			Cool (DBT)		32°C (64°F			46°C (14°F			\
\vdash	Condition Heat (DBT) PIPE DIAMETER mm (inch)				· 30°C (61°F · 52 (3/8) (Gas)			24°C (-4°F				
P	CONNECT METHOD			(Liquid) Ø9.5	flared type	(3/6) סט.טו ש	Liquid) Ø9.5	flared type	(10.00 (3/6)			
 P	STD LENGTH m (ft)							6 (25)				
17		PIPE LENGTH RANGE m (ft)				- (00 /		(10 ~ 165)				
N		I/D&O/D HEIGHT D ADD GAS AMO		15 (OD located lower) /30 (OD) (OD located higher) (50/100)					
G	P	PIPE LENGTH FOR AD						100)				-
-	<u> </u>			()			55 (,				

^{*1:}Rating conditions : Room temperature 80 °F DB / 67 °F WB (26.7 °C DB / 19.4 °C WB), Ambient temperature 95 °F DB / 75 °F WB (35.0 °C DB / 23.9 °C WB).

^{*2:}Rating conditions : Room temperature 70 °F DB / 60 °F WB (21.1°C DB / 15.6°C WB), Ambient temperature 47 °F DB / 43 °F WB (8.3°C DB / 6.1°C WB).

^{*3:}Low temp conditions : Room temperature 70 °F DB / 60 °F WB (21.1°C DB / 15.6°C WB), Ambient temperature 17 °F DB / 15 °F WB (-8.3°C DB / -9.4°C WB).

^{*4:}INDOOR CURRENT="INDOOR FAN MOTOR LOAD"

Wall Mounted (Type K2)

		INDOOR	MOD			S-26PK2U6						
\vdash		PANEL OUTDOOR	MOD MOD			-			- U-26PE1U6	:		
\vdash		Branch pipe	MOD					1	- -	<u> </u>	l	
		PERFORMANCE TE						ARI Stan	dard 210/240			
	PO	WER SUPPLY	PH, V	HZ	208	1PH, 60Hz 230		208	1PH, 60Hz 230	-	Min	Max
		0.4.D.4.0.IT.V.*4	kV	,	7.0	7.0	-	200	230	_	-	IVIAX
		CAPACITY *1	BTU		24000	24000	-				9500	24000
С		CURRENT *1 *4	A		0.62	0.59	-	16.6	15.0	-	-	-
0	IN	IPUT POWER *1	W TOTA	i W	65	65 -	-	2755 2820	2755 2820	-	550	2820
0		EER	-		-	-	-	8.5	8.5	-	17.3	8.5
L		SEER	-		-	-	-	16.7	16.7	-		
N		OWER FACTOR	% dB-A (F	/M/L)	-	48/42/38	-	80	80	-		
G	١	NOISE INDOOR	Power Le			-			_			
	NO	OISE OUTDOOR	dB-A			-			49			
Н	-		Power Le		8.1	8.1	_		-	1	_	
		CAPACITY *2	BTU		27600	27600	-				8000	27600
	(CURRENT *2 *4	А		0.62	0.59	-	14.6	13.2	-	-	-
$ \cdot $	IN	IPUT POWER *2	W	1 \\	65	65	-	2425	2425	-	- 450	- 2400
H		(COP)	TOTA -	L VV		- -		2490 (11.1)	2490 (11.1)	-	450 17.8	2490 11.1
Ā		HSPF	-		-	-	-	10.1	10.1	-	\	11.1
		(CANADA REGION5))	-		-	-	-	(8.1)	(8.1)	-		
	H3 ₂ *3 (17°F)	CAPACITY INPUT POWER	BTU TOTA		-	-	-	15800 1950	15800 1950	-	 	
G		OWER FACTOR				-	-	80	80	-	\	
		NOISE INDOOR	dB-A (H	/M/L)		48/42/38			-	•	i \	
		VOIGE IIVEGOIX	Power Le			-			- 49			
	NOISE OUTDOOR dB-A (H) Power Level dB					-			<u>49</u> -			
	MA	X CURRENT (A)/MAX	INPUT POWE		0.62/65	0.59/65	-	16.5/2.75k	16.5/3.04k	-		
<u> </u>		NETWORK IMPED				-			- 47		<u> </u>	
\vdash	MAX	MINIMUM CIRCUIT				15 15		1	17 30		 	
		DISCONNECT SWITC				15			-		i \	
0		OR FAN MOTOR A				-		0.9 / 0.9	0.9 / 0.9	-		
<u> </u>		MPRESSOR AMPER PRESSOR LOCKED-I		COOL/HEAT	-			10.1 / 12.9	10.2 / 11.4 17.5	 		
		MPRESSOR RATED				-			12.9		\ \	
		OUTDOOR	HIGH SIDE			-			(3.36), 487			
\vdash	DESI	GN PRESSURE FM OUTPUT (LOW SIDE	MPa , psi.		47			(1.63) , 236 90		\	
	MC	DISTURE REMOVAL V		L/h, Pints/h		2.7, 5.7			-		\ \	
		Extarnal static press		Pa, in.WC							'	
	AIR OW	COOL (H/M/L) HEAT (H/M/L)	m ³ /min, ft ³ /r m ³ /min, ft ³ /r			.5/11.5, 650/5 .5/11.5, 650/5			_			<u> </u>
-	DAIR	COOL	m ³ /min, ft ³ /r		10.7/17	, 050/0	712/400	<u> </u>	50, 1766			1
	wo	HEAT	m ³ /min, ft ³ /r	nin (CFM)		D.116:			50, 1766	(07.0)		
P	R D Î	EFRIGERANT TYPE,	AMOUNT g, lb, Γ: H mm (inch)	(OZ)		R410A, -	1		4, 1.90k, 4.2, 780 (30-23/32			_
R	Ϊ́Ι		: W mm (inch)			065 (41-15/16		†	940 (37)	- /		_
0	М	DEPTH	: D mm (inch)			230 (9-1/16)			340 (13-3/8)			
P	D		Γ: H mm (inch)			310 (12-7/32)			888 (34-31/32			
A	I I		: W mm (inch)			<u>140 (44-29/32</u> 380 (14-31/32			<u>015 (39-31/3</u> 409 (16-3/32			
-	ASS	(NI	ET) kg (lb)			14.5 (32)			58 (128)			
L IVI	A00		OSS) kg (lb)			20 (44)			67 (148)			
\vdash	LAYERS LIMIT ID/OD (actually) Operation Cool (DBT				18°C ~	15 (16) · 32°C (64°F ~	~ 90°F)	-10°C ~	3 (4) - 46°C (14°F	~ 115°F\		
L	Condition Heat (DBT				16°C ~	· 30°C (61°F ~	~ 86°F)	-20°C ^	~ 24°C (-4°F	~ 75°F)		
Р	PIPE DIAMETER mm (inch)				(Liquid) ø9.5	62 (3/8) (Gas)	ø15.88 (5/8)	(Liquid) ø9.5		ø15.88 (5/8)		
1	CONNECT METHOD STD LENGTH m (ft)					flared type	7.6	(25)	flared type			
Р	PIPE LENGTH RANGE m (ft)							10 ~ 165)				
I N		I/D&O/D HEIGHT D	IFFERENCE r	n (ft)	1:	5 (OD located	l lower) /30 (OD located h	igher) (50/10	00)		
G		ADD GAS AMO PIPE LENGTH FOR AD						0.43) (100)				
		II L LLING I II FOR AL	DITIONAL GAS	ווו (ונ)				TA SHRI				

^{*1:}Rating conditions : Room temperature 80 °F DB / 67 °F WB (26.7 °C DB / 19.4 °C WB), Ambient temperature 95 °F DB / 75 °F WB (35.0 °C DB / 23.9 °C WB).

^{*2:}Rating conditions : Room temperature 70 °F DB / 60 °F WB (21.1°C DB / 15.6°C WB), Ambient temperature 47 °F DB / 43 °F WB (8.3°C DB / 6.1°C WB).

^{*3:}Low temp conditions : Room temperature 70 °F DB / 60 °F WB (21.1°C DB / 15.6°C WB), Ambient temperature 17 °F DB / 15 °F WB (-8.3°C DB / -9.4°C WB).

^{*4:}INDOOR CURRENT="INDOOR FAN MOTOR LOAD"

Ceiling (Type T2)

PANEL MODEL OUTDOOR MODEL Branch pipe MODEL PERFORMANCE TEST CONDITION POWER SUPPLY C C C C C C C C C C C C C C C C C C	Min - 9500	Max -
Branch pipe	9500	-
PERFORMANCE TEST CONDITION	9500	-
C C C C C INPUT POWER *1	9500	-
CAPACITY *1	9500	-
CAPACHY**I BTU/h 24000 24000 - CURRENT*1*4 A 0.46 0.44 - 15.9 14.4 - O INPUT POWER*1 W 55 55 - 2645 2645 - TOTAL W - 2700 2700 - EER 8.9 8.9 -	9500	
O INPUT POWER *1 W 55 55 - 2645 - 2700 2700 - EER 8.9 8.9 -	-	24000
O INPUT POWER *1 W 55 55 - 2645 2645 - 2700 2700 - EER 8.9 8.9 -		-
EER 8.9 8.9 -	-	- 0700
	550 17.3	2700 8.9
SEER - - - 10.0 10.0 -		0.0
N POWER FACTOR		
NOISE INDOOR	 	\leftarrow
NOISE OUTDOOR dB-A (H) - 49		
Power Level dB -		
CAPACITY *2	8000	27000
CURRENT *2 *4 A 0.46 0.44 - 14.3 12.9 -	- 8000	-
INDIT DOWER *2 W 55 55 - 2375 -	-	-
H 101ALW - 2430 2430 -	435	2430
E (COP) (11.1) (11.1) - A HSPF 9.4 9.4 -	18.4	11.1
T (HSPF (CANADA REGIONS)) (7.3) (7.3) -	<u> </u>	
H3 ₂ *3 CAPACITY BTU/h - - 13250 13250 -	1	
N (17°F) INPUT POWER	+	-
dP V (H/W/I) 30/35/31	+ \	
NOISE INDOOR Power Level dB		
NOISE OUTDOOR dB-A (H)	+ \	
Note: Section Power Level dB -	+	
NETWORK IMPEDANCE(ΩMAX.)		
MINIMUM CIRCUIT AMPACITY (A) 15 17	1	
MAXIMUM OVERCURRENT PROTECTION (A) 15 30 DISCONNECT SWITCH CAPACITY (A) 15 -	 	
OUTDOOR FAN MOTOR AMPERES (A) COOL/HEAT - 0.9/0.9 0.9/0.9 -		
COMPRESSOR AMPERES (A) COOL/HEAT - 10.1/12.9 10.2/11.4 -	—	
COMPRESSOR LOCKED-ROTOR AMPERES (A) - 17.5 COMPRESSOR RATED LOAD AMPERES (A) - 12.9	 	
OUTDOOR HIGH SIDE MPa , psi - (3.36) , 487	1	
DESIGN PRESSURE LOW SIDE MPa, psi (1.63), 236		
FM OUTPUT (ID/OD) W 74 90 MOISTURE REMOVAL VOLUME L/h, Pints/h 2.5, 5.3 -	+	
Extarnal static pressure Pa. in.WC -	<u> </u>	
I/D AIR COOL (H/M/L) m³/min, ft³/min (CFM) 21/18/15.5, 742/636/547		\
FLOW HEAT (H/M/L) m³/min, ft³/min (CFM) 21/18/15.5, 742/636/547 O/D AIR COOL m³/min, ft³/min (CFM) 50, 1766		1
FLOW HEAT m³/min, (t³/min (CFM) 50, 1766		
REFRIGERANT TYPE, AMOUNT g, lb, (oz) R410A, - R410A, 1.90k, 4.2, (67.0)		
P D HEIGHT: H mm (inch) 235 (9-1/4) 780 (30-23/32)		$\overline{}$
R I WIDTH: W mm (inch) 1275 (50-13/64) 940 (37) O M DEPTH: D mm (inch) 690 (27-11/64) 340 (13-3/8)		-
P D HEIGHT: H mm (inch) 360 (14-11/64) 888 (34-31/32)		
A I WIDTH: W mm (inch) 1340 (52-3/4) 1015 (39-31/32)		
C M DEPTH : D mm (inch) 820 (32-9/32) 409 (16-3/32) MACC (NET) kg (lb) 33 (73) 58 (128)		\longrightarrow
	1	-
MASS (GROSS) kg (lb) 42 (93) 67 (148)		
MASS (GROSS) kg (lb) 42 (93) 67 (148) LAYERS LIMIT ID/OD (actually) 9 (10) 3 (4)	1	
MASS (GROSS) kg (lb) 42 (93) 67 (148)		\ I
MASS (GROSS) kg (lb) 42 (93) 67 (148)	3)	
CONNECT METHOD GROSS) kg (lb) 42 (93) 67 (148)	3)	
CONNECT METHOD CONN	3)	
CONNECT METHOD CONN	3)	
CONNECT METHOD CONN	3)	

^{*1:}Rating conditions : Room temperature 80 °F DB / 67 °F WB (26.7 °C DB / 19.4 °C WB), Ambient temperature 95 °F DB / 75 °F WB (35.0 °C DB / 23.9 °C WB).

^{*2:}Rating conditions : Room temperature 70 °F DB / 60 °F WB (21.1°C DB / 15.6°C WB), Ambient temperature 47 °F DB / 43 °F WB (8.3°C DB / 6.1°C WB).

^{*3:}Low temp conditions : Room temperature 70 °F DB / 60 °F WB (21.1°C DB / 15.6°C WB), Ambient temperature 17 °F DB / 15 °F WB (-8.3°C DB / -9.4°C WB).

^{*4:}INDOOR CURRENT="INDOOR FAN MOTOR LOAD"

Ceiling (Type T2)

		INDOOR		DEL		S-36PT2U6						
L		PANEL OUTDOOR		DEL DEL		-			- U-36PE1U6			
\vdash		Branch pipe	MO						- -	<u> </u>		
		PERFORMANCE TE						ARI Stan	dard 210/240	0		
	PO	WER SUPPLY		, Hz V	208	1PH, 60Hz 230	_	208	1PH, 60Hz 230	_	Min	Max
П		CAPACITY *1		W	9.6	9.6	-	200	200		-	-
				U/h	32600	32600	-				9500	32600
С		CURRENT *1 *4		Α V	0.71 80	0.67 80	-	18.3 3470	16.6 3470	-	-	-
0	IN.	NPUT POWER *1		AL W	00	-	-	3550	3550	-	550	3550
O L		EER		-	-	-	-	9.2	9.2	-	17.3	9.2
Ī	D	SEER OWER FACTOR	0	- %				18.0 91	18.0 91	-		
N				H/M/L)		42/37/35		31				
G	ľ	NOISE INDOOR		_evel dB		-						
	N	OISE OUTDOOR		A (H) _evel dB		-			52 -		1	
H		OADAOITV *O		W	10.6	10.6	-				-	-
		CAPACITY *2		U/h	36200	36200	-				8000	36200
		CURRENT *2 *4		Λ V	0.71 80	0.67 80	-	15.4 2920	13.9 2920	-	-	-
Н	I۱	NPUT POWER *2		AL W	oU	- 80	-	3000	3000	-	435	3000
E		(COP)		-	-	-	-	(12.1)	(12.1)	-	18.4	12.1
A	/LICDE	HSPF (CANADA REGIONS))		-	-	-	-	9.5	9.5 (7.7)	-	<u> </u>	
	H3 ₂ *3			- U/h	-	-	-	(7.7) 19400	19400	-	 	
N	(17°F)	INPUT POWER	TOT	AL W	-	-	-	2300	2300	-		
G	P	OWER FACTOR		/ ₆	-	40/07/05	-	91	91	-	<u> </u>	
	1	NOISE INDOOR	dB-A (Power I	_evel dB		42/37/35			-			
	NOISE OUTDOOR Branch dB			-				52		i \		
ш		AX CURRENT (A)/MAX		_evel dB				40.0/0.001-	-		<u> </u>	
-	IVIA	NETWORK IMPED			0.71/80	0.67/80	-	19.0/3.60K	19.0/3.98k	-	 \	
		MINIMUM CIRCUIT	AMPACITY (A	Á)		15			21			
L		XIMUM OVERCURREI				15			35		\ \ \	
<u></u>		DISCONNECT SWITCOR FAN MOTOR A				15 -		1.0 / 1.0	0.9 / 0.9	-	 	
	CC	OMPRESSOR AMPER	RES (A)	COOL/HEAT		-		12.8 / 15.7	12.9 / 16.4	-		
<u> </u>		PRESSOR LOCKED-F MPRESSOR RATED				-			17.5 15.7		\	
\vdash		OUTDOOR		MPa , psi.					(3.36) , 487		 	
L	DESI	GN PRESSURE	LOW SIDE			-			(1.63), 236			
_		FM OUTPUT (DISTURE REMOVAL V		L/h, Pints/h		111 3.1, 6.5			90		1	
	IVIC	Extarnal static pressi		Pa, in.WC		3.1, 0.3			-		<u>'</u>	
	AIR	COOL (H/M/L)	m ³ /min, ft ³	/min (CFM)		5/23, 1059/88						Ň.
	OW DAIR	HEAT (H/M/L) COOL	m ³ /min, ft ³ m ³ /min, ft ³		30/25	5/23, 1059/88	3/812		55, 1942			1
	_OW	HEAT	m ³ /min, ft ³						55, 1942			1
		EFRIGERANT TYPE,	AMOUNT g, lb), (OZ)		R410A, -			A, 2.80k, 6.2,			
P R	D I		F: H mm (inch): W mm (inch)		1	235 (9-1/4) 590 (62-19/3)	2)	<u> 7</u>	<u>'80 (30-23/32</u> 940 (37)	2)		
Ö	M		: D mm (inch)			390 (02-19/32 390 (27-11/64			340 (37))		
Р	D		Γ: H mm (inch			360 (14-11/64			88 (34-31/32			
A C	I M		: W mm (inch)			1655 (65-5/32 820 (32-9/32)			<u>015 (39-31/3</u> 409 (16-3/32			
$\overline{}$	-		ET) kg (lb)			40 (88)	1	·	65 (143)	.,		
IVI.	(GROSS) kg (lb)					49 (109)			73 (161)			
\vdash	LAYERS LIMIT ID/OD (actually) Operation Cool (DBT			Cool (DBT)	18°C ~	9 (10) · 32°C (64°F ·	~ 00°E)	_10°C -	3 (4) - 46°C (14°F	~ 115°F\		
L	Condition Heat (DBT)			16°C ~	- 30°C (61°F -	~ 86°F)	-20°C -	~ 24°C (-4°F	~ 75°F)			
Р	PIPE DIAMETER mm (inch)			(Liquid) ø9.5	52 (3/8) (Gas)	ø15.88 (5/8)	(Liquid) ø9.5		ø15.88 (5/8)			
1	CONNECT METHOD STD LENGTH m (ft)					flared type	7.6	(25)	flared type			
P	PIPE LENGTH RANGE m (ft)						3 ~ 50 (1	10 ~ 165)				
N		I/D&O/D HEIGHT DIFFERENCE m (ft) ADD GAS AMOUNT g/m (oz/ft)				5 (OD located		(OD located higher) (50/100)				
G	F	ADD GAS AMO PIPE LENGTH FOR AD						0.43) 100)				
	<u>'</u>	" - LLINOTITI ON AL	DITIONAL OF	· · · · · · · · · · · · · · · · · · ·			30 (100)				

^{*1:}Rating conditions : Room temperature 80 °F DB / 67 °F WB (26.7 °C DB / 19.4 °C WB), Ambient temperature 95 °F DB / 75 °F WB (35.0 °C DB / 23.9 °C WB).

^{*2:}Rating conditions : Room temperature 70 °F DB / 60 °F WB (21.1°C DB / 15.6°C WB), Ambient temperature 47 °F DB / 43 °F WB (8.3°C DB / 6.1°C WB).

^{*3:}Low temp conditions : Room temperature 70 °F DB / 60 °F WB (21.1°C DB / 15.6°C WB), Ambient temperature 17 °F DB / 15 °F WB (-8.3°C DB / -9.4°C WB).

^{*4:}INDOOR CURRENT="INDOOR FAN MOTOR LOAD"

Ceiling (Type T2)

PAMEL MODEL OUTDOOR MODEL FERFORMANCE TIST CONDITION FERFORMANCE TIST CONDITION POWER SUPPLY V. 258 230 288 230 . Min Max V. 258 230 230 288 230 . Min Max V. 258 230 230 288 230 . Min Max V. 258 230 230 288 230 . Min Max V. 258 230 230 288 230 . Min Max V. 258 230 230 288 230 . Min Max V. 258 230 230 288 230 . Min Max V. 258 230 230 288 230 . Min Max V. 258 230 230 230 230 . Min Max V. 258 230 230 230 230 . Min Max V. 258 230 230 230 230 . Min Max V. 258 230 230 230 230 . Min Max V. 258 230 230 230 230 230 . Min Max V. 258 230 230 230 230 230 . Min Max V. 258 230 230 230 230 230 230 230 230 230 230			INDOOR	MOD	EL		S-42PT2U6						
Branch pipe	<u> </u>						-			-			
PERFORMANCE TEST CONDITION	\vdash									U-42PE1U6			
CAPACITY '1									ARI Stan	dard 210/240)		
CAPACITY '1 BTUM 35900 39000 - 2 CURRENT '1 '4 A 0.93 0.86	Г	PO	NER SUPPLY		-lz								
CAPACITY 1	Н				,				208	230	-		
NPUT POWER 11			CAPACITY *1										
No.		C	CURRENT *1 *4					-			-	-	-
EER		IN	PUT POWER *1		10/	110		-					
SEER			FFR		_ VV	_		_					
NOSE OUTDOOR				-									0
NOISE INDOOR Discharge NOISE OUTDOOR Power Level dB		P	OWER FACTOR		(8.4.(1.)	-	-	-	83	83	-		
NOISE OUTDOOR		N	IOISE INDOOR										
CAPACITY '2	i	NIC	DISE OLITDOOR							53			
CAPACITY '2	Ш	INC	JISE OUTDOOK							-			
CURRENT '2' 4			CAPACITY *2										- 44500
H			CURRENT *2 *4		/11				21.7	19.6			
Total Copp				W				-	3750	3750	-		
HSPF -		111			W								
Test												15.9	11.5
Note		(HSPF		-			-					1	
POWER FACTOR %													
NOISE INDOOR					_ VV	-	-	-			-	 	
NOISE NOUTOOR Power Level dB - 53 53	6	dp v (H/M/L)				-	46/40/36	-	0.5		-	 	
NUISE OUTDOOR		NOISE INDOOR Power Level dB											
MAX CURRENT (A)MAX INPUT POWER (W) NETWORK IMPEDANCE (CMAX) MINIMUM CIRCUIT AMPACITY (A) MAXIMUM OVERCURRENT (A) MAXIMUM OVERCURRENT PROTECTION (A) DISCONNECT SWITCH CAPACITY (A) TO DISCONNECT SWITCH CAPACITY (A) DISCONNECT SWITCH CAPACITY (A) DISCONNECT SWITCH CAPACITY (A) TO DISCONNECT SWITCH CAPACITY (A) DISCONNECT SWITCH CAPACITY (A) TO DISCONNECT SWITCH CAPACITY (A) DISCONNECT SWITCH CAPACITY (A) TO DISCONNECT SWITCH CAPACITY (A) DISCONNECT SWITCH CAPACITY (A) TO DISCONNECT SWITCH CAPACITY (A) TO DISCONNECT SWITCH CAPACITY (A) TO DISCONNECT SWITCH CAPACITY (A) MAXIMUM OVERCURRENT (A) TO COMPRESSOR ARDRERES (A) COMPRESSOR ARDRE (A) COMPRESSOR ARDRE (A) TO DISCONNECT SWITCH (A) TO DISCONNECT SWITCH (A) TO DISCONNECT SWITCH (A) TO SW												- \	
NETWORK IMPEDANCE(OMAX.)	Н	LMA	X CURRENT (A)/MAX			0.93/110		-	25.0/4.32k		-	- \ 	
MAXIMUM OVERCURRENT PROTECTION (A)			NETWORK IMPED	ANCE(ΩMAX.)	- ()	0.00	-			-		\	
DISCONNECT SWITCH CAPACITY (A)	\vdash				AL (A)							\	
OUTDOOR FAN MOTOR AMPERES (A)	\vdash											 	
COMPRESSOR LOCKED-ROTOR AMPERES (A) -									1.7 / 1.7		-		
COMPRESSOR RATED LOAD AMPERES (A)									14.9 / 18.0				
OUTDOOR HIGH SIDE MPa , psi. -	\vdash										 		
DESIGN PRESURE	\vdash										\		
MOISTURE REMOVAL VOLUME L/h, Pints/h 4.0, 8.4	\vdash	DESI			MPa , psi.	-							
Extarnal static pressure	\vdash				I/h Dinte/h						\vdash		
I/D AIR	\vdash	IVIO				-					`	\	
O/D AIR FLOW COOL HEAT m³/min, ft³/min (CFM) 100, 3531 REFRIGERANT TYPE, AMOUNT g, lb, (oz) R410A, - R410A, 3.60k, 7.9, (127.0) P D HEIGHT: H mm (inch) 235 (9-1/4) 1230 (48-7/16) R I WIDTH: W mm (inch) 1590 (62-19/32) 940 (37) O M DEPTH: D mm (inch) 690 (27-11/64) 340 (13-3/8) P D HEIGHT: H mm (inch) 360 (14-11/64) 1330 (52-3/8) A I WIDTH: W mm (inch) 1655 (65-5/32) 1015 (39-31/32) C M DEPTH: D mm (inch) 820 (32-9/32) 409 (16-3/32) MASS (RROSS) kg (lb) 40 (88) 100 (220) MASS (GROSS) kg (lb) 49 (109) 109 (241) LAYERS LIMIT ID/OD (actually) 9 (10) 2 (3) Operation Condition Coll (DBT) 18°C ~ 32°C (64°F ~ 90°F) -10°C ~ 46°C (14°F ~ 75°F) P PIPE DIAMETER mm (inch) (Liquid) 99.52 (3/8) (Gas) ø15.88 (5/8) (Liquid) ø9.52 (3/8) (Gas) ø15.88 (5/8) 100 (20) P PIPE LENGTH RANGE m (ft) 3 ~ 50 (10 ~ 165) 100 (00 (00 (00 (00 (00 (00 (00 (00 (00			COOL (H/M/L)	m ³ /min, ft ³ /n									1
REFRIGERANT TYPE, AMOUNT g, lb, (oz)						34/28	<u>8/24, 1201/98</u>	9/848		100 2521			
REFRIGERANT TYPE, AMOUNT g, lb, (oz) R410A, - R410A, 3.60k, 7.9, (127.0) P D HEIGHT: H mm (inch) R I WIDTH: W mm (inch) DEPTH: D mm (inch) M DEPTH: D mm (inch) B690 (27-11/64) A040 (137) B70 HEIGHT: H mm (inch) A060 (14-11/64) B70 HEIGHT: H mm (inch) B70 HEIGH													\vdash
R		R	EFRIGERANT TYPE,	AMOUNT g, lb,						, 3.60k, 7.9,			`\
O M DEPTH : D mm (inch) 690 (27-11/64) 340 (13-3/8) P D HEIGHT : H mm (inch) 360 (14-11/64) 1330 (52-3/8) A I WIDTH : W mm (inch) 1655 (65-5/32) 1015 (39-31/32) C M DEPTH : D mm (inch) 820 (32-9/32) 409 (16-3/32) MASS (NET) kg (lb) 40 (88) 100 (220) MASS (GROSS) kg (lb) 49 (109) 109 (241) LAYERS LIMIT ID/OD (actually) 9 (10) 2 (3) Operation Cool (DBT) 18°C ~ 32°C (64°F ~ 90°F) -10°C ~ 46°C (14°F ~ 115°F) Condition Heat (DBT) 16°C ~ 30°C (61°F ~ 86°F) -20°C ~ 24°C (-4°F ~ 75°F) PIPE DIAMETER mm (inch) (Liquid) ø9.52 (3/8) (Gas) ø15.88 (5/8) (Liquid) ø9.52 (3/8) (Gas) ø15.88 (5/8) PIPE LENGTH RANGE m (ft) 3 ~ 50 (10 ~ 165) N PIPE LENGTH RANGE m (ft) 3 ~ 50 (10 ~ 165) N ADD GAS AMOUNT g/m (oz/ft) 40 (0.43)						4		2)	1		5)		_
P D HEIGHT: H mm (inch) 360 (14-11/64) 1330 (52-3/8) A I WIDTH: W mm (inch) 1655 (65-5/32) 1015 (39-31/32) C M DEPTH: D mm (inch) 820 (32-9/32) 409 (16-3/32) MASS (NET) kg (lb) 40 (88) 100 (220) (GROSS) kg (lb) 49 (109) 109 (241) LAYERS LIMIT ID/OD (actually) 9 (10) 2 (3) Operation Cool (DBT) 18°C ~ 32°C (64°F ~ 90°F) -10°C ~ 46°C (14°F ~ 115°F) Condition Heat (DBT) 16°C ~ 30°C (61°F ~ 86°F) -20°C ~ 24°C (-4°F ~ 75°F) P PIPE DIAMETER mm (inch) (Liquid) ø9.52 (3/8) (Gas) ø15.88 (5/8) CONNECT METHOD flared type flared type STD LENGTH m (ft) 7.6 (25) P PIPE LENGTH RANGE m (ft) 15 (OD located lower)/30 (OD located higher) (50/100) N ADD GAS AMOUNT g/m (oz/ft) 40 (0.43)													-\
C M DEPTH : D mm (inch) 820 (32-9/32) 409 (16-3/32) MASS (NET) kg (lb) 40 (88) 100 (220) (GROSS) kg (lb) 49 (109) 109 (241) LAYERS LIMIT ID/OD (actually) 9 (10) 2 (33) Operation Cool (DBT) 18°C ~ 32°C (64°F ~ 90°F) -10°C ~ 46°C (14°F ~ 115°F) Condition Heat (DBT) 16°C ~ 30°C (61°F ~ 86°F) -20°C ~ 24°C (-4°F ~ 75°F) PIPE DIAMETER mm (inch) (Liquid) ø9.52 (3/8) (Gas) ø15.88 (5/8) (Liquid) ø9.52 (3/8) (Gas) ø15.88 (5/8) CONNECT METHOD flared type flared type STD LENGTH m (ft) 7.6 (25) PIPE LENGTH RANGE m (ft) 3 ~ 50 (10 ~ 165) I/D&O/D HEIGHT DIFFERENCE m (ft) 15 (OD located lower) /30 (OD located higher) (50/100) ADD GAS AMOUNT g/m (oz/ft) 40 (0.43)										1330 (52-3/8			
MASS (NET) kg (lb) 40 (88) 100 (220) (GROSS) kg (lb) 49 (109) 109 (241) LAYERS LIMIT ID/OD (actually) 9 (10) 2 (3) Operation Cool (DBT) 18°C ~ 32°C (64°F ~ 90°F) -10°C ~ 46°C (14°F ~ 115°F) Condition Heat (DBT) 16°C ~ 30°C (61°F ~ 86°F) -20°C ~ 24°C (-4°F ~ 75°F) PIPE DIAMETER mm (inch) (Liquid) Ø9.52 (3/8) (Gas) Ø15.88 (5/8) (Liquid) Ø9.52 (3/8) (Gas) Ø15.88 (5/8) CONNECT METHOD flared type flared type STD LENGTH m (ft) 7.6 (25) PIPE LENGTH RANGE m (ft) 3 ~ 50 (10 ~ 165) I/D&O/ID HEIGHT DIFFERENCE m (ft) 15 (OD located lower) /30 (OD located higher) (50/100) ADD GAS AMOUNT g/m (oz/ft) 40 (0.43)													
Cool (DBT) 18°C ~ 32°C (64°F ~ 90°F) -10°C ~ 46°C (14°F ~ 115°F)	$\overline{}$	$\neg \neg$))		
LAYERS LIMIT ID/OD (actually) 9 (10) 2 (3)	M.	ASS -											\
Condition		LAYERS LIMIT ID/OD (actually)					9 (10)			2 (3)			
P													
CONNECT METHOD flared type flared type STD LENGTH m (ft) 7.6 (25) P PIPE LENGTH RANGE m (ft) 3 ~ 50 (10 ~ 165) I/D&O/D HEIGHT DIFFERENCE m (ft) 15 (OD located lower) /30 (OD located higher) (50/100) ADD GAS AMOUNT g/m (oz/ft) 40 (0.43)													
PIPE LENGTH RANGE m (ft) 3 ~ 50 (10 ~ 165) I/D&O/D HEIGHT DIFFERENCE m (ft) 15 (OD located lower) /30 (OD located higher) (50/100) ADD GAS AMOUNT g/m (oz/ft) 40 (0.43)	۲	CONNECT METHOD									()		
I/D&O/D HEIGHT DIFFERENCE m (ft) ADD GAS AMOUNT g/m (oz/ft) 15 (OD located lower) /30 (OD located higher) (50/100) 40 (0.43)	P									·			
ADD GAS AMOUNT g/m (oz/ft) 40 (0.43)	1					14	5 (OD located			igher) (50/10	0)		$\overline{}$
PIPE LENGTH FOR ADDITIONAL GAS m (ft) 30 (100)			ADD GAS AMC	OUNT g/m (oz/ft)	·		, 00 1000160	40 (0.43)	.5.101/(00/10			
	٦	Р	IPE LENGTH FOR AD	DITIONAL GAS	m (ft)			30 (100)				

^{*1:}Rating conditions : Room temperature 80 °F DB / 67 °F WB (26.7 °C DB / 19.4 °C WB), Ambient temperature 95 °F DB / 75 °F WB (35.0 °C DB / 23.9 °C WB).

^{*2:}Rating conditions : Room temperature 70 °F DB / 60 °F WB (21.1°C DB / 15.6°C WB), Ambient temperature 47 °F DB / 43 °F WB (8.3°C DB / 6.1°C WB).

^{*3:}Low temp conditions : Room temperature 70 °F DB / 60 °F WB (21.1°C DB / 15.6°C WB), Ambient temperature 17 °F DB / 15 °F WB (-8.3°C DB / -9.4°C WB).

^{*4:}INDOOR CURRENT="INDOOR FAN MOTOR LOAD"

(A) Indoor Unit

MODEL No. Source		S-26PF2U6 230 - 208 V / 1 phase / 60 Hz
Fan (Number diameter)	in. (mm)	Sirocco Fan (2 7-9/32" (185 mm))
Fan motor		
Model		SIC-70CW-D8120-4
Source		325 VDC
No. of pole r.p.m. (230 V, High)	rpm	8P 1360
Nominal output	W	124
Run capacitor	VAC, μF	
Heat exchanger		
Coil		Aluminum plate fin / Copper tube
RowsFin pitch		3 3/64" (1.34 mm)
Face area	ft.2 (m2)	2.90 (0.269)
Drain pump		PMD-12D13ST-1
Rated		DC13 V, 4.2W
Height from drain connection port & capacity		1.64 ft. , 0.11 gal. (500 mm, 400 cc)

(A) Indoor Unit

MODEL No. Source		S-36PF2U6 230 - 208 V / 1 phase / 60 Hz
Fan (Number diameter)	in. (mm)	Sirocco Fan (3 7-9/32" (185 mm))
Fan motor	·	
Model		SIC-101CW-D8200-2
Source		325 VDC
No. of pole r.p.m. (230 V, High)	rpm	8P 1360
Nominal output	W	235
Run capacitor	VAC, μF	
Heat exchanger		
Coil		Aluminum plate fin / Copper tube
RowsFin pitch		3 3/64" (1.34 mm)
Face area	ft.2 (m2)	4.34 (0.403)
Drain pump		PMD-12D13ST-1
Rated		DC13 V, 4.2W
Height from drain connection port & capacity		1.64 ft., 0.11 gal. (500 mm, 400 cc)

(A) Indoor Unit

MODEL No.		S-26PU1U6
Source Remote controller (Supplied / Optional)		230 - 208 VAC / 1 phase / 60Hz Wired / Wireless (See Unit Specifications)
Control circuit fuse		250 VAC, 5 A
Fan (Number diameter)	in. (mm)	Turbo (117-7/16 (443))
Fan motor		
Model		SFG6X - 41D6P
Source		230 - 208 V / 1 phase / 60 Hz
No. of pole r.p.m. (230 V, High)	rpm	6 464
Nominal output	W	40
Coil resistance	Ω	BRW - WHT : 170.3 , ORG - YEL : 43.2
(Ambient temperature 68 °F)		WHT - VLT : 18.1 , WHT - PNK : 83.5
		VLT - ORG : 43.2 , YEL - BLK : 60.2
Safety device		
Operating temperature	Open °F	266 ± 14.4
	Close °F	174.2 ± 27
Run capacitor	VAC, μF	440 V , 4.5 μF
Heat exchanger		
Coil		Aluminum plate fin / Copper tube
Rows Fins per inch		2 14.9
Face area	ft.2 (m2)	3.69 (0.343)
Panel		
Model No.		CZ-24KPU1U
Auto louver motor		MT8 - 3C
Auto louver motor Rated	V, W, rpm	240 VAC , 3 W , 3 rpm
Coil resistance (Ambient temperature 77 °F)	Ω	16.430 Ω ± 8 %

(A) Indoor Unit

MODEL No.		S-36PU1U6
Source		230 - 208 VAC / 1 phase / 60Hz
Remote controller (Supplied / Optional)		Wired / Wireless (See Unit Specifications)
Controller P. C. B Ass'y		CR-26PU1U6-P
Control circuit fuse		250 VAC, 5 A
Fan (Number diameter)	in. (mm)	Turbo (117-7/16 (443))
Fan motor		
Model		SFG6X - 81A6P
Source		230 - 208 V / 1 phase / 60 Hz
No. of pole r.p.m. (230 V, High)	rpm	6 467
Nominal output	W	60
Coil resistance	Ω	BRW - WHT : 75.1 , ORG - YEL : 27.4
(Ambient temperature 68 °F)		WHT - VLT : 6.7 , VLT - PNK : 42.7
		VLT - ORG : 20.6 , YEL - BLK : 58.0
Safety device		
Operating temperature	Open °F	266 ± 14.4
	Close °F	174.2 ± 27
Run capacitor	VAC, μF	440 V , 6 μF
Heat exchanger		
Coil		Aluminum plate fin / Copper tube
Rows Fins per inch		2 14.9
Face area ft.2 (m2)		8.20 (0.762)
Panel		
Model No.		CZ-36KPU1U
Auto louver motor		MT8 - 3C
Auto louver motor Rated	V, W, rpm	240 VAC , 3 W , 3 rpm
Coil resistance (Ambient temperature 77 °F	-) Ω	16.430 Ω ± 8 %

(A) Indoor Unit

MODEL No.		S-42PU1U6
Source		230 - 208 VAC / 1 phase / 60Hz
Remote controller (Supplied / Optional)		Wired / Wireless (See Unit Specifications)
Controller P. C. B Ass'y		CR-26PU1U6-P
Control circuit fuse		250 VAC, 5 A
Fan (Number diameter)	in. (mm)	Turbo (117-7/16 (443))
Fan motor		
Model		SFG6X - 81A6P
Source		230 - 208 V / 1 phase / 60 Hz
No. of pole r.p.m. (230 V, High)	rpm	6 506
Nominal output	W	60
Coil resistance	Ω	BRW - WHT : 75.1 , ORG - YEL : 27.4
(Ambient temperature 68 °F)		WHT - VLT : 6.7 , VLT - PNK : 42.7
		VLT - ORG : 20.6 , YEL - BLK : 58.0
Safety device		
Operating temperature	Open °F	266 ± 14.4
	Close °F	174.2 ± 27
Run capacitor	VAC, μF	440 V , 6 μF
Heat exchanger		
Coil		Aluminum plate fin / Copper tube
Rows Fins per inch		2 14.9
Face area	ft. ² (m ²)	8.20 (0.762)
Panel		
Model No.		CZ-36KPU1U
Auto louver motor		MT8 - 3C
Auto louver motor Rated	V, W, rpm	240 VAC , 3 W , 3 rpm
Coil resistance (Ambient temperature 77 °F) Ω		16.430 Ω ± 8 %

(A) Indoor Unit

MODEL No.		S-26PK1U6
Source		230 - 208 VAC / 1 phase / 60Hz
Remote controller (Optional / Supplied)		Wired / Wireless (See Unit Specifications)
Controller P. C. B Ass'y		CB-KR254GXH56A
Control circuit fuse		250 V, 5 A
Fan		Cross-flow
Number Dia. and length	in. (mm)	1 O.D. 4-1/3 (110), L39 (990)
Fan motor		
Model		KFT4Q - 31A6P - C
Source		230 - 208 V / 1 phase / 60 Hz
No. of pole r.p.m. (230 V, High)	rpm	4 1,224
Nominal output	W	28.8
Coil resistance	Ω	BRW - WHT : 260.7 , ORG - YEL : 23.76
(Ambient temperature 68 °F)		WHT - VLT : 42.62 , YEL - PNK : 115.9
		VLT - ORG : 30.36 ,
Safety device		
Operating temperature	Open °F	266 ± 14.4
	Close °F	174.2 ± 26
Run capacitor	VAC, μF	440 V , 1.8 μF
Heat exchanger		
Coil		Aluminum plate fin / Copper tube
Rows Fins per inch		2 24.1
Face area	ft.2 (m2)	2.57 (0.24)

(A) Indoor Unit

MODEL No.		S-26PT1U6
Source		230 - 208 VAC / 1 phase / 60Hz
Remote controller (Supplied / Optional)		Wired / Wireless (See Unit Specification)
Controller P. C. B Ass'y		CR - TH2672
Control circuit fuse		250 V, 5 A
Fan (Number diameter)	in. (mm)	Centrifugal (4 5-1/8(130))
Fan motor		
Model		SR4X - 51A6P
Source		230 - 208 V / 1 phase / 60 Hz
No. of pole r.p.m. (230 V, High)	rpm	1,179
Nominal output	W	31
Coil resistance	Ω	BRW - WHT : 111.0 , ORG - YEL : 16.7
(Ambient temperature 68 °F)		WHT - VLT : 35.4 , BLK - PNK : 23.9
		VLT - ORG : 13.4 , YEL - BLK : 136.6
Safety device		
Operating temperature	Open °F	266 ± 14.4
	Close °F	174.2 ± 27
Run capacitor	VAC, μF	440 V , 1.5 μF
Heat exchanger		
Coil		Aluminum plate fin / Copper tube
Rows Fins per inch		3 14.9
Face area	ft.2 (m2)	1.81 (0.168)
Auto louver motor		
Model No.		MT8 - 3C
Auto louver motor Rated	V, W, rpm	240 VAC , 3 W , 3 rpm
Coil resistance (Ambient temperature 77 °F)	Ω	16,430 Ω ± 8 %

(A) Indoor Unit

MODEL No.		S-36PT1U6
Source		230 - 208 VAC / 1 phase / 60Hz
Remote controller (Supplied / Optional)		Wired / Wireless (See Unit Specification)
Controller P. C. B Ass'y		CR - TH2672
Control circuit fuse		250 V, 5 A
Fan (Number diameter)	in. (mm)	Centrifugal (4 5-29/32(150))
Fan motor		
Model		KFG4X - 101C6P
Source		230 - 208 V / 1 phase / 60 Hz
No. of pole r.p.m. (230 V, High)	rpm	4 1,040
Nominal output	W	100
Coil resistance	Ω	BRW - WHT : 61.05 , ORG - YEL : 13.23
(Ambient temperature 68 °F)		WHT - VLT : 9.955 , YEL - BLK : 19.25
		VLT - ORG : 9.576 , BLK - PNK : 10.81
Safety device		
Operating temperature	Open °F	266 ± 14.4
	Close °F	174.2 ± 27
Run capacitor	VAC, μF	440 V , 5 μF
Heat exchanger		
Coil		Aluminum plate fin / Copper tube
Rows Fins per inch		3 14.9
Face area ft.2 (m2)		3.51 (0.326)
Auto louver motor		
Model No.		MT8 - 3C
Auto louver motor Rated	V, W, rpm	240 VAC , 3 W , 3 rpm
Coil resistance (Ambient temperature 77 °F) Ω		16,430 Ω ± 8 %

(A) Indoor Unit

MODEL No.		S-42PT1U6
Source		230 - 208 VAC / 1 phase / 60Hz
Remote controller (Supplied / Optional) Controller P. C. B Ass'y		Wired / Wireless (See Unit Specification)
		CR - TH2672
Control circuit fuse		250 V, 5 A
Fan (Number diameter)	in. (mm)	Centrifugal (4 5-29/32(150))
Fan motor		
Model		KFG4X - 101C6P
Source		230 - 208 V / 1 phase / 60 Hz
No. of pole r.p.m. (230 V, High)	rpm	4 1,099
Nominal output	W	100
Coil resistance	Ω	BRW - WHT : 61.05 , ORG - YEL : 13.23
(Ambient temperature 68 °F)		WHT - VLT : 9.955 , YEL - BLK : 19.25
		VLT - ORG : 9.576 , BLK - PNK : 10.81
Safety device		
Operating temperature	Open °F	266 ± 14.4
	Close °F	174.2 ± 27
Run capacitor	VAC, μF	440 V , 5 μF
Heat exchanger		
Coil		Aluminum plate fin / Copper tube
Rows Fins per inch		3 14.9
Face area	ft.2 (m2)	3.51 (0.326)
Auto louver motor		
Model No.		MT8 - 3C
Auto louver motor Rated	V, W, rpm	240 VAC , 3 W , 3 rpm
Coil resistance (Ambient temperature 77 °F)	Ω	16,430 Ω ± 8 %

(A) Indoor Unit

MODEL No.		S-26PF1U6
Source		230 - 208 VAC / 1 phase / 60Hz
Remote controller (Supplied / Optional)		Wired / Wireless (See Unit Specification)
Controller P. C. B Ass'y		CR - TH2672
Control circuit fuse		250 V, 5 A
Fan (Number diameter)	in. (mm)	Centrifugal (4 5-29/32(150))
Fan motor		
Model		KFG4X - 71B6P
Source		230 - 208 V / 1 phase / 60 Hz
No. of pole r.p.m. (230 V, High)	rpm	4 920
Nominal output	W	100
Coil resistance	Ω	BRW - WHT : 74.7 , ORG - YEL : 9.59
(Ambient temperature 68 °F)		WHT - VLT : 19.1 , YEL - BLK : 10.52
		VLT - ORG : 10.5 , BLK - PNK : 21.72
Safety device		
Operating temperature	Open °F	266 ± 14.4
	Close °F	174.2 ± 27
Run capacitor	VAC, μF	440 V , 5 μF
Heat exchanger		
Coil		Aluminum plate fin / Copper tube
Rows Fins per inch		3 14.9
Face area	ft.2 (m2)	2.03 (0.189)

(A) Indoor Unit

MODEL No.		S-36PF1U6
Source		230 - 208 VAC / 1 phase / 60Hz
Remote controller (Supplied / Optional)		Wired / Wireless (See Unit Specification)
Controller P. C. B Ass'y		CR - TH2672
Control circuit fuse		250 V, 5 A
Fan (Number diameter)	in. (mm)	Centrifugal (4 5-29/32(150))
Fan motor		
Model		KFC4X-141A6P
Source		230 - 208 V / 1 phase / 60 Hz
No. of pole r.p.m. (230 V, High)	rpm	4 940
Nominal output	W	100
Coil resistance	Ω	BRW - WHT : 39.9 , ORG - YEL : 9.37
(Ambient temperature 68 °F)		WHT - VLT : 6.91 , YEL - BLK : 8.86
		VLT - ORG : 11.4 , BLK - PNK : 14.3
Safety device		
Operating temperature	Open °F	266 ± 14.4
	Close °F	174.2 ± 27
Run capacitor	VAC, μF	440 V , 5 μF
Heat exchanger		
Coil		Aluminum plate fin / Copper tube
Rows Fins per inch		3 12.7
Face area	ft.2 (m2)	3.32 (0.308)

(A) Indoor Unit

MODEL No.		S-26PU2U6
Source		230 - 208 V / 1 phase / 60Hz
Controller P. C. B Ass'y		A73C8682 (Microprocessor)
Fan (Number diameter)	in. (mm)	Turbo (1Ф19-9 / 32" (Ф490))
Fan motor		
Model		SIC - 62FW - D866-3
Source		280VDC
No. of pole r.p.m. (230 V, High)	rpm	8P 450
Nominal output	W	60
Safety device		overcrrent, rotating signal detection, fuse
Heat exchanger		
Coil		Aluminum plate fin / Copper tube
Rows Fins per inch		2 3 / 64" (1.21)
Face area	ft. ² (m ²)	4.20 (0.391)
Panel		
Model No.		CZ-36KPU3U
Auto louver motor		MSBPC20A20
Coil resistance (Ambient temperature 77 °F)	Ω	300 Ω ± 7 % / phase
Drain pump		PMD-12D13ST-5
Rated	V, W	DC 13 V, 4.2 W
Drain piping rise height from unit bottom, capacity		2.79 ft (850 mm), 0.11gal / min (400 cc / min)

(A) Indoor Unit

MODEL No.	S-36PU2U6	
Source	230 - 208 V / 1 phase / 60Hz	
Controller P. C. B Ass'y		A73C8683 (Microprocessor)
Fan (Number diameter)	in. (mm)	Turbo (1Ф19-9 / 32" (Ф490))
Fan motor		
Model		SIC - 72FW - D892-4
Source		280VDC
No. of pole r.p.m. (230 V, High)	rpm	8P 590
Nominal output	W	90
Safety device		overcrrent, rotating signal detection, fuse
Heat exchanger		
Coil		Aluminum plate fin / Copper tube
Rows Fins per inch		2 3 / 64" (1.21)
Face area	ft. ² (m ²)	5.62 (0.522)
Panel		
Model No.		CZ-KPU21
Auto louver motor		MSBPC20A20
Coil resistance (Ambient temperature 77 °F)	Ω	300 $\Omega \pm 7 \%$ / phase
Drain pump		PMD-12D13ST-1
Rated	V, W	DC 13 V, 4.2 W
Drain piping rise height from unit bottom, capac	city	2.79 ft (850 mm), 0.11gal / min (400 cc / min)

(A) Indoor Unit

MODEL No.		S-42PU2U6		
Source		230 - 208 V / 1 phase / 60Hz		
Controller P. C. B Ass'y		A73C8684 (Microprocessor)		
Fan (Number diameter)	in. (mm)	Turbo (1Φ19-9 / 32" (Φ490))		
Fan motor				
Model		SIC - 72FW - D892-4		
Source		280VDC		
No. of pole r.p.m. (230 V, High)	rpm	8P 610		
Nominal output	W	90		
Safety device		overcrrent, rotating signal detection, fuse		
Heat exchanger				
Coil		Aluminum plate fin / Copper tube		
Rows Fins per inch		2 3 / 64" (1.21)		
Face area	ft. ² (m ²)	5.62 (0.522)		
Panel				
Model No.		CZ-KPU21		
Auto louver motor		MSBPC20A20		
Coil resistance (Ambient temperature 77 °F)	Ω	300 $\Omega \pm 7 \%$ / phase		
Drain pump		PMD-12D13ST-1		
Rated	V, W	DC 13 V, 4.2 W		
Drain piping rise height from unit bottom, capac	city	2.79 ft (850 mm), 0.11gal / min (400 cc / min)		

(A) Indoor Unit

MODEL No.		S-26PK2U6
Source		230 - 208 V / 1 phase / 60Hz
Controller P.C.B. Ass'y		CB-26PK2U6
Fan (Numberdiameter / length)	in. (mm)	Cross-flow (1ø3-15 / 16" (ø100) / L32-63 / 64" (L838))
Fan motor		
Model		SIC-41CVJ-D847-5
Source		340VDC
No. of poler.p.m. (230 V, High)	rpm	8P1460
Coil resistance (Ambient temperature 68°F)	Ω	26.8
Nominal output	W	47
Safety device	'	overcurrent, rotating signal detection fuse
Heat exchanger		
Coil		Aluminium plate fin / Copper tube
Rowsfins per inch	in. (mm)	33 / 64" (1.3)
Face area	ft ² (m ²)	3.46 (0.321)

(A) Indoor Unit

MODEL No.		S-26PT2U6		
Source		230 - 208 V / 1 phase / 60Hz		
Controller P. C. B Ass'y		A73C8687 (Microprocessor)		
an (Number diameter)	in. (mm)	Sirocco Fan (3Φ5-26 / 32" (Φ147.5))		
an motor				
Model		SIC - 60CW - D874-2		
Source		280VDC		
No. of pole r.p.m. (230 V, High)	rpm	8P 970		
Nominal output	W	74		
Safety device		overcrrent, rotating signal detection, fuse		
leat exchanger				
Coil		Aluminum plate fin / Copper tube		
Rows Fins per inch		3 1 / 16" (1.34)		
Face area	ft.2 (m2)	3.65 (0.339)		

(A) Indoor Unit

MODEL No.		S-36PT2U6	
Source		230 - 208 V / 1 phase / 60Hz	
Controller P. C. B Ass'y		A73C8688 (Microprocessor)	
Fan (Number diameter)	in. (mm)	Sirocco Fan (4Φ5-26 / 32" (Φ147.5))	
Fan motor			
Model		SIC - 70CW - D8111-3	
Source		280VDC	
No. of pole r.p.m. (230 V, High)	rpm	8P 1,040	
Nominal output	W	111	
Safety device		overcrrent, rotating signal detection, fuse	
Heat exchanger			
Coil		Aluminum plate fin / Copper tube	
Rows Fins per inch		3 1 / 16" (1.34)	
Face area	ft.2 (m2)	4.76 (0.442)	

(A) Indoor Unit

MODEL No.		S-42PT2U6	
Source		230 - 208 V / 1 phase / 60Hz	
Controller P. C. B Ass'y		A73C8689 (Microprocessor)	
Fan (Number diameter)	in. (mm)	Sirocco Fan (4Φ5-26 / 32" (Φ147.5))	
Fan motor			
Model		SIC - 70CW - D8111-3	
Source		280VDC	
No. of pole r.p.m. (230 V, High)	rpm	8P 1,080	
Nominal output	W	111	
Safety device		overcrrent, rotating signal detection, fuse	
Heat exchanger			
Coil		Aluminum plate fin / Copper tube	
Rows Fins per inch		3 1 / 16" (1.34)	
Face area	ft.2 (m2)	4.76 (0.442)	

MODEL No.		U-26PE1U6	
Source			230 - 208 VAC / 1 phase / 60Hz
Controller P.C.B. Ass'y			CR-CH4872R (Microprocessor)
Control circuit fuse (on the P.C.B. "FIL-CH	l4872R")		280 V, 25 A
Compressor			
Modelnumber			C-7RVN153H0U
Nominal output		W	1,500
Compressor oil		gal. (cc)	0.17 (650)
Coil resistance		Ω	C-R: 0.665 R-S: 0.665
(Ambient temperature 25 °C)			C-S: 0.665
Safety control			
Microprocessor safety devices			Compressor Discharge Gas temperature control Comressor current detection circuit
Overload protector	Open	°F (°C)	230 (110)
(Operating temperature)	Close	°F (°C)	203 (95)
Crank case heater			-
Refrigerant amount at shipment		lbs. (kg)	R410A - 4.2 (1.9)
High pressure switch			-
Set pressure	OFF	PSi	600
	ON		456
Fan			Propeller
Number diameter		ft. (mm)	1ø18-7/64" (ø460)
Air circulation (Hi)		CFM (m ³ /h)	1,766 (3,000)
Fan speeds (Max.)			~800 rpm (Inverter drive control)
Fan motor			
Model No.			DAJ12-95B61A-CR
Source			DC340 V / 3 phase
No. of pole			8
Nominal output		W	90
Coil resistance		Ω	RED - WHT : 30.5 WHT - BLK : 30.5
(Ambient temperature 20 °C)			BLK - RED : 30.5
Safety device			
Operating temperature Operating temperature	Open	°F (°C)	284 (140)
Close		°F (°C)	-
Run capacitor VAC,		μF	
Heat exchanger			
Coil		Aluminium plate fin / Copper tube	
Rowsfin pitch in. (mm)		in. (mm)	10.063 (1.6)
Face area ft.2 (m²)		7.26 (0.675)	

MODEL No.			U-36PE1U6
Source			230 - 208 VAC / 1 phase / 60Hz
Controller P.C.B. Ass'y			CR-CH4872R (Microprocessor)
Control circuit fuse (on the P.C.B."FIL-CH	l4872R")	280 V, 25 A	
Compressor			
Modelnumber			C-7RVN153H0U
Nominal output		W	1,500
Compressor oil		gal. (cc)	0.17 (650)
Coil resistance		Ω	C-R: 0.665 R-S: 0.665
(Ambient temperature 25 °C)			C - S : 0.665
Safety control			
Microprocessor safety devices			Compressor Discharge Gas temperature control Comressor current detection circuit
Overload protector	Open	°F (°C)	230 (110)
(Operating temperature)	Close	°F (°C)	203 (95)
Crank case heater			-
Refrigerant amount at shipment		lbs. (kg)	R410A - 6.2 (2.8)
High pressure switch			-
Set pressure	OFF	PSi	600
	ON	PSi	456
Fan			Propeller
Number diameter		ft. (mm)	1ø18-7/64"(ø460)
Air circulation (Hi)		CFM (m³/h)	1,942 (3,300)
Fan speeds (Max.)			~830 rpm (Inverter drive control)
Fan motor			
Model No.			DAJ12-95B61A-CR
Source			DC340 V / 3 phase
No. of pole			8
Nominal output		W	90
Coil resistance		Ω	RED – WHT : 30.5 WHT – BLK : 30.5
(Ambient temperature 20 °C)			BLK – RED : 30.5
Safety device			
Operating temperature	Operating temperature Open		284 (140)
	Close		-
· · · · · · · · · · · · · · · · · · ·		μF	230V, 40 μF
Heat exchanger			
Coil		1.	Aluminium plate fin / Copper tube
·	Rowsfin pitch		20.071 (1.8)
Face area ft.		ft.2 (m2)	7.27 (0.675)

MODEL No.		P-42PE1U6	
Source			230 - 208 VAC / 1 phase / 60Hz
Controller P.C.B. Ass'y			CR-CH4872R (Microprocessor)
Control circuit fuse (on the P.C.B. "FIL-CH	l4872R")		280 V, 25 A
Compressor			
Modelnumber			C-9RVN273H0W
Nominal output		W	2,700
Compressor oil		gal. (cc)	0.50 (1,900)
Coil resistance		Ω	C – R : 0.169 R – S :0.169
(Ambient temperature 25 °C)			C – S :0.169
Safety control			
Microprocessor safety devices			Compressor Discharge Gas temperature control Comressor current detection circuit
Overload protector	Open	°F (°C)	230 (110)
(Operating temperature)	Close	°F (°C)	203 (95)
Crank case heater			-
Refrigerant amount at shipment		lbs. (kg)	R410A - 7.9 (3.6)
High pressure switch			-
Set pressure	OFF	PSi	600
	ON		456
Fan	'		Propeller
Number diameter		ft. (mm)	2ø18-7/64"(ø460)
Air circulation (Hi)		CFM (m³/h)	3,531 (6,000)
Fan speeds (Max.)			~830 rpm (Inverter drive control)
Fan motor			
Model No.			DAJ12-95B61B-CR
Source			DC340 V / 3 phase
No. of pole			8
Nominal output		W	90
Coil resistance		Ω	RED - WHT : 30.5 WHT - BLK : 30.5
(Ambient temperature 20 °C)			BLK - RED : 30.5
Safety device			
Operating temperature	Open	°F (°C)	284 (140)
Close		°F (°C)	-
Run capacitor VAC,		μF	230V, 60μF
Heat exchanger			
Coil			Aluminium plate fin / Copper tube
Rowsfin pitch in. (m		in. (mm)	20.079 (2.0)
Face area ft.2 (m²)		ft.2 (m2)	11.63 (1.080)

MODEL No.			U-26PS1U6	
Source			230 - 208 VAC / 1 phase / 60Hz	
Controller P.C.B. Ass'y			CR-CH4872R (Microprocessor)	
Control circuit fuse (on the P.C.B. "FIL-CH	4872R")	280 V, 25 A		
Compressor				
Modelnumber			C-7RVN153H0U	
Nominal output		W	1,500	
Compressor oil		gal. (cc)	0.17 (650)	
Coil resistance		Ω	C – R : 0.665 R – S : 0.665	
(Ambient temperature 25 °C)			C – S : 0.665	
Safety control				
Microprocessor safety devices			Compressor Discharge Gas temperature control Comressor current detection circuit	
Overload protector	Open	°F (°C)	230 (110)	
(Operating temperature)	Close	°F (°C)	203 (95)	
Crank case heater			-	
Refrigerant amount at shipment		lbs. (kg)	R410A - 4.2 (1.9)	
High pressure switch			-	
Set pressure	OFF	PSi	600	
	ON		456	
Fan			Propeller	
Number diameter		ft. (mm)	1ø18-7/64" (ø460)	
Air circulation (Hi)		CFM (m³/h)	1,766 (3,000)	
Fan speeds (Max.)			~800 rpm (Inverter drive control)	
Fan motor				
Model No.			DAJ12-95B61A-CR	
Source			DC340 V / 3 phase	
No. of pole			8	
Nominal output		W	90	
Coil resistance		Ω	RED - WHT : 30.5 WHT - BLK : 30.5	
(Ambient temperature 20 °C)			BLK - RED : 30.5	
Safety device				
Operating temperature Oper	Open	°F (°C)	284 (140)	
Close		°F (°C)	-	
		μF	-	
Heat exchanger				
Coil		Aluminium plate fin / Copper tube		
Rowsfin pitch	Rowsfin pitch in. (mm)		10.063 (1.6)	
Face area ft² (m²)		7.26 (0.675)		

MODEL No.		U-36PS1U6		
Source			230 - 208 VAC / 1 phase / 60Hz	
Controller P.C.B. Ass'y			CR-CH4872R (Microprocessor)	
Control circuit fuse (on the P.C.B. "FIL-CH4872R")			280 V, 25 A	
Compressor	,			
Modelnumber			C-7RVN153H0U	
Nominal output		W	1,500	
Compressor oil		gal. (cc)	0.17 (650)	
Coil resistance		Ω	C – R : 0.665 R – S : 0.665	
(Ambient temperature 25 °C)			C-S: 0.665	
Safety control				
Microprocessor safety devices			Compressor Discharge Gas temperature control Comressor current detection circuit	
Overload protector	Open	°F (°C)	230 (110)	
(Operating temperature)	Close	°F (°C)	203 (95)	
Crank case heater			-	
Refrigerant amount at shipment		lbs. (kg)	R410A - 6.2 (2.8)	
High pressure switch			-	
Set pressure	OFF	PSi	600	
	ON		456	
Fan			Propeller	
Number diameter		ft. (mm)	1ø18-7/64" (ø460)	
Air circulation (Hi)		CFM (m³/h)	1,942 (3,300)	
Fan speeds (Max.)			~830 rpm (Inverter drive control)	
Fan motor				
Model No.			DAJ12-95B61A-CR	
Source			DC340 V / 3 phase	
No. of pole			8	
Nominal output		W	90	
Coil resistance		Ω	RED - WHT : 30.5 WHT - BLK : 30.5	
(Ambient temperature 20 °C)			BLK – RED : 30.5	
Safety device				
Operating temperature	Open	°F (°C)	284 (140)	
Close		°F (°C)	-	
Run capacitor VAC, µ		μF	230V, 40μF	
Heat exchanger				
Coil		Aluminium plate fin / Copper tube		
		in. (mm)	20.071 (1.8)	
Face area		ft² (m²)	7.27 (0.675)	

MODEL No.			U-42PS1U6
Source			230 - 208 VAC / 1 phase / 60Hz
Controller P.C.B. Ass'y			CR-CH4872R (Microprocessor)
Control circuit fuse (on the P.C.B. "FIL-CH	14872R")	280 V, 25 A	
Compressor			
Modelnumber			C-9RVN273H0W
Nominal output		W	2,700
Compressor oil		gal. (cc)	0.50 (1,900)
Coil resistance		Ω	C-R: 0.169 R-S: 0.169
(Ambient temperature 25 °C)			C – S :0.169
Safety control			
Microprocessor safety devices			Compressor Discharge Gas temperature control Comressor current detection circuit
Overload protector	Open	°F (°C)	230 (110)
(Operating temperature)	Close	°F (°C)	203 (95)
Crank case heater			-
Refrigerant amount at shipment		lbs. (kg)	R410A - 7.9 (3.6)
High pressure switch			-
Set pressure	OFF	PSi	600
	ON	PSi	456
Fan			Propeller
Number diameter		ft. (mm)	2ø18-7/64" (ø460)
Air circulation (Hi)		CFM (m ³ /h)	3.531 (6,000)
Fan speeds (Max.)			~830 rpm (Inverter drive control)
Fan motor			
Model No.			DAJ12-95B61A-CR
Source			DC340 V / 3 phase
No. of pole			8
Nominal output		W	90
Coil resistance		Ω	RED - WHT : 30.5 WHT - BLK : 30.5
(Ambient temperature 20 °C)	(Ambient temperature 20 °C)		BLK – RED : 30.5
Safety device			
Operating temperature Oper		°F (°C)	284 (140)
	Close		-
		μF	230V, 60μF
Heat exchanger			
Coil			Aluminium plate fin / Copper tube
Rowsfin pitch in.		in. (mm)	20.079 (2.0)
Face area	Face area ft² (m²)		11.63 (1.080)

1-3. Other Component Specifications

Outdoor Unit

MODEL No.		U-26PE1U6, U-26PS1U6			
Thermistor (Coil sensor) :	TH2 to 5				
Coil resistance	kΩ	14 °F : 23.7	,	50 °F: 9.7	
		23 °F : 18.8	,	68 °F: 6.5	
		32 °F : 15.0	,	86 °F: 4.4	
		41 °F : 12.1	,	104 °F: 3.1	
				113 °F: 2.6	
Thermistor (Comp. discharge	gas sensor) : TH6				
Coil resistance	kΩ	140 °F : 13.8	,	194 °F: 5.1	
		158 °F: 9.7	,	212 °F: 3.8	
		167 °F: 8.2	,	230 °F: 2.8	
		176 °F: 7.0	,	248 °F: 2.2	
		185 °F: 5.9	,	266 °F: 1.7	
Solenoid coil or 4 way valv	/e				
4 way valve		STF-02U2G			
Solenoid coil		STF - 01AQ503UA1 (Heat pump model only)			
Electric expansion valve (MOV)				
Valve		UKV - 18D13			
Coil			UKV - U013E		

1-3. Other Component Specifications

Outdoor Unit

MODEL No.		U-36PE1U6, U-36PS1U6				
Thermistor (Coil sensor) :	TH2 to 5					
Coil resistance	kΩ	14 °F : 23.7	,	50 °F: 9.7		
		23 °F : 18.8	,	68 °F: 6.5		
		32 °F : 15.0	,	86 °F: 4.4		
		41 °F : 12.1	,	104 °F: 3.1		
				113 °F : 2.6		
Thermistor (Comp. discharge	gas sensor) : TH6					
Coil resistance	kΩ	140 °F : 13.8	,	194 °F: 5.1		
		158 °F: 9.7	,	212 °F: 3.8		
		167 °F: 8.2	,	230 °F: 2.8		
		176 °F: 7.0	,	248 °F: 2.2		
		185 °F: 5.9	,	266 °F: 1.7		
Solenoid coil or 4 way valv	re					
4 way valve		STF - 02U2G				
Solenoid coil		STF - 01AQ503UA1 (Heat pump models only)				
Electric expansion valve (MOV)					
Valve		UKV - 18D13				
Coil		UKV - U013E				

1-3. Other Component Specifications

Outdoor Unit

MODEL No.		U-42PE1U6, U-42PS1U6			
Thermistor (Coil sensor) :	TH2 to 5				
Coil resistance	kΩ	14 °F : 23.7	, 50 °F: 9.7		
		23 °F : 18.8	, 68 °F: 6.5		
		32 °F : 15.0	, 86 °F : 4.4		
		41 °F : 12.1	, 104 °F : 3.1		
			113 °F : 2.6		
Thermistor (Comp. discharge	gas sensor) : TH6				
Coil resistance	kΩ	140 °F : 13.8	, 194 °F : 5.1		
		158 °F: 9.7	, 212 °F: 3.8		
		167 °F: 8.2	, 230 °F : 2.8		
		176 °F: 7.0	, 248 °F : 2.2		
		185 °F: 5.9	, 266 °F: 1.7		
Solenoid coil or 4 way valv	re e				
4 way valve		STF - 04U1G			
Solenoid coil		STF - 01AQ503UA1 (Heat pump model only)			
Electric expansion valve (I	MOV)				
Valve		UKV - 25D			
Coil			UKV - U013E		

Unit: inch (mm)

1-4. Dimensional Data

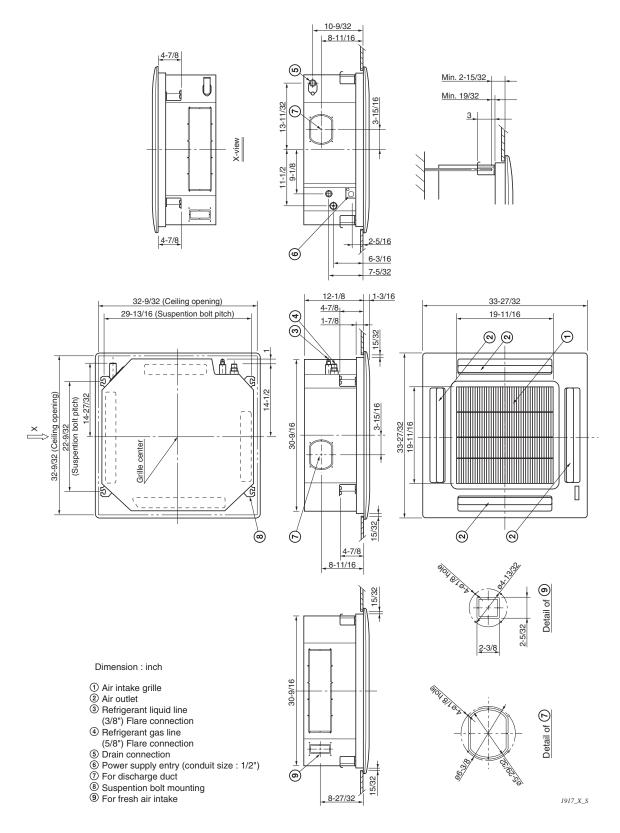
Indoor Unit: Concealed Duct (Type F2)

Air intake port side g 11-7/16 ▲(Suspension bolt pitch) (290)6-49/64 10-3/64 В е (255)(172)(636)d Inspection F.01/8 (03) holes $\frac{2-9/16}{(65)}$ access 25-3/64 1-1/32 23-5/8 × 23-5/8 (26.1) (300) (600 × 600 mm) 10-5/64 (Field supply) 1-5/16 (33.4) **D** 1-3/16 (30) b 5-29/32 C 4-29/64 (113) D (150)3-35/64 (90) E(Flange O.D.) 2-1/8 1-5/16 2-3/4 (54) (33.4) (70)6-1/16 29/32 29/32 (154)(23)(23)5-33/64 Air outlet duct side (140)

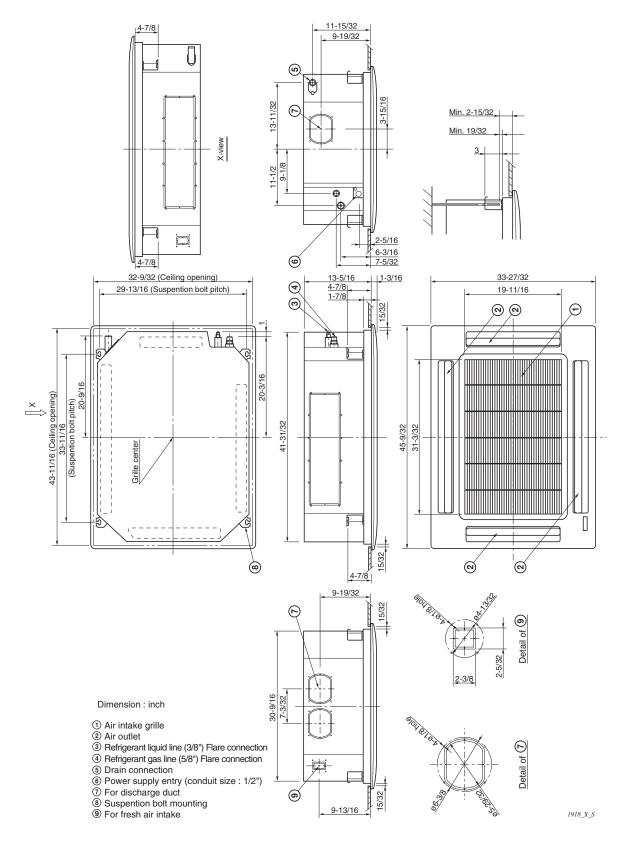
- a) Refrigerant tubing joint (liquid tube)
- **b)** Refrigerant tubing joint (gas tube)
- c) Upper drain port VP25 (O.D. 1-17/64" (O.D. 32 mm)) § 7-7/8" (200 mm) flexible hose supplied
- d) Bottom drain port VP25 (O.D. 1-17/64" (O.D. 32 mm))
- e) Suspension lug (4 15/32" × 1-3/16" (4 12 × 30 mm))
- f) Inter-unit control wiring port
- g) Fresh air intake port (ø5-29/32" (ø150 mm))
- h) Flange for flexible air outlet duct
- i) Electrical component box
- j) Power supply wiring port

Туре		Α	В	С	D	E	F
26	inch	42-1/64	39-3/8	29-17/32 (Pitch 5-29/32 × 5)	53/64	31-3/16	
20	mm	1,067	1,000	750 (Pitch 150 × 5)	21	792	16
36	inch	57-3/4	55-1/8	41-11/32 (Pitch 5-29/32 × 7)	2-51/64	46-59/64	20
30	mm	1,467	1,400	1,050 (Pitch 150 × 7)	71	1,192	20

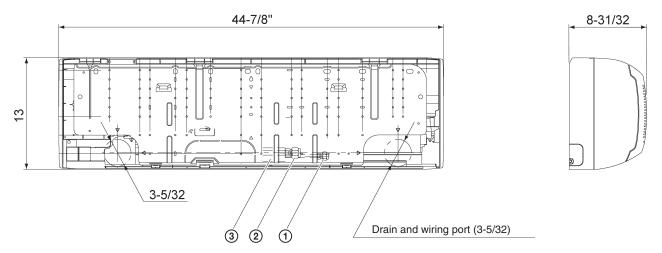
Indoor Unit : 4-Way Cassette (Type U1) Type 26



Indoor Unit : 4-Way Cassette (Type U1) Type 36, 42



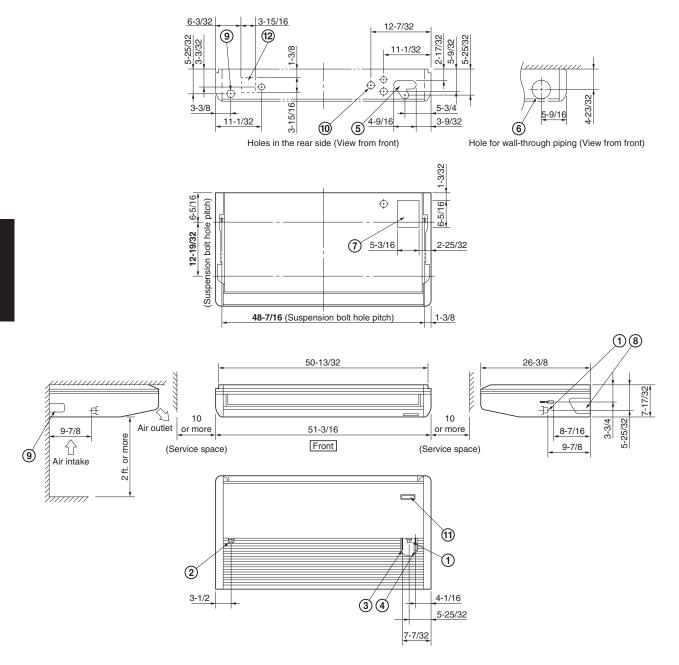
Indoor Unit: Wall Mounted (Type K1)



- Refrigerant liquid line (3/8") Flare connection
 Refrigerant gas line (5/8") Flare connection
 Drain hose OD 45/64

Dimension: inch

Indoor Unit : Ceiling (Type T1) Type 26

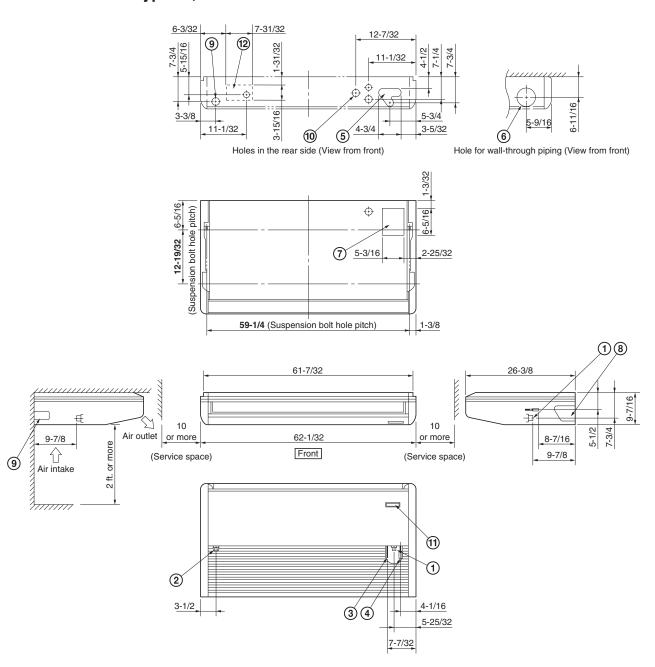


Dimension: inch

- ① Drain connection
- 2 Drain connection for left side
- ③ Refrigerant liquid line (3/8") Flare connection
- 4 Refrigerant gas line (5/8") Flare connection
- (5) Hole for rear side refrigerant tubing
- (6) Hole for through-the-wall refrigerant tubing (ø3-15/16" hole)
- Thole for fresh air intake (Knockout hole)
- 8 Hole for right side refrigerant tubing (Knockout hole)
- Hole for left side drain connection (Knockout hole)
- 1/2") Hole for power supply (Conduit size 1/2")
- 1 Infrared rays receiver for wireless remote controller
- 12 Cutting position for fresh air intake

1919_THS_I

Indoor Unit: Ceiling (Type T1) Type 36, 42

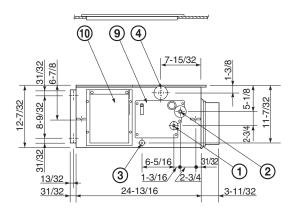


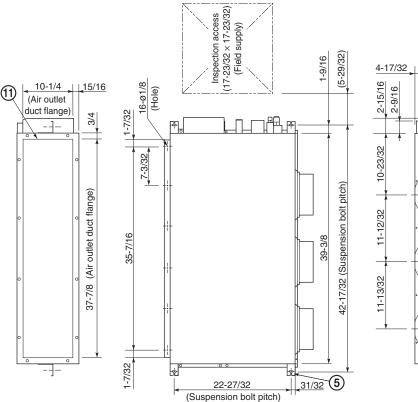
Dimension: inch

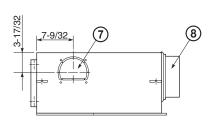
- ① Drain connection
- ② Drain connection for left side
- 3 Refrigerant liquid line (3/8") Flare connection
 4 Refrigerant gas line (5/8") Flare connection
- (5) Hole for rear side refrigerant tubing
- Hole for through-the-wall refrigerant tubing (ø3-15/16" hole)
- 7 Hole for fresh air intake (Knockout hole)
- 8 Hole for right side refrigerant tubing (Knockout hole)
- Hole for left side drain connection (Knockout hole)
- 10 Hole for power supply (Conduit size 1/2")
- 11) Infrared rays receiver for wireless remote controller
- 12 Cutting position for fresh air intake

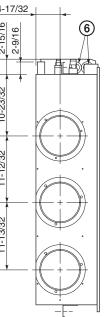
1920 TS I

Indoor Unit : Low Silhouette Ducted (Type F1) Type 26







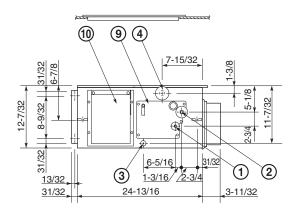


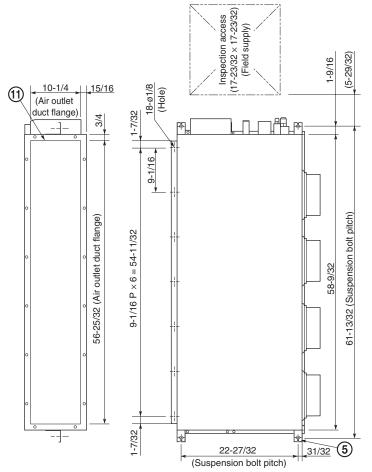
Dimension : inch

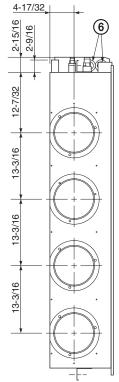
- ① Refrigerant liquid line (3/8") Flare connection
- ② Refrigerant gas line (5/8") Flare connection
- 3 Upper drain port (O.D. 1-1/4)
- 4 Bottom drain port (O.D. 1-1/32)
- ⑤ Suspension lug
- 6 Power supply inlet (conduit size 1/2")
- Tresh air intake port (ø5-29/32)
- ® Flange for the flexible air outlet duct (ø7-7/8)
- 9 Tube cover
- Electrical component box
- 11) Flange for the air intake duct (option or field supply)

1914_U_I

Indoor Unit: Low Silhouette Ducted (Type F1) Type 36







Dimension: inch

- ① Refrigerant liquid line (3/8") Flare connection
- ② Refrigerant gas line (5/8") Flare connection
- 3 Upper drain port (O.D. 1-1/4)
- 4 Bottom drain port (O.D. 1-1/32)
- (5) Suspension lug
 (6) Power supply inlet (conduit size 1/2")
- 7 Fresh air intake port (ø5-29/32)
- ® Flange for the flexible air outlet duct (ø7-7/8)
- Tube cover
- 10 Electrical component box
- 11) Flange for the air intake duct (option or field supply)

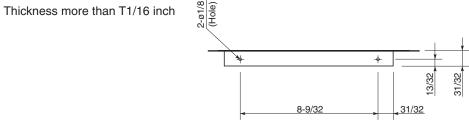
1915_U_I

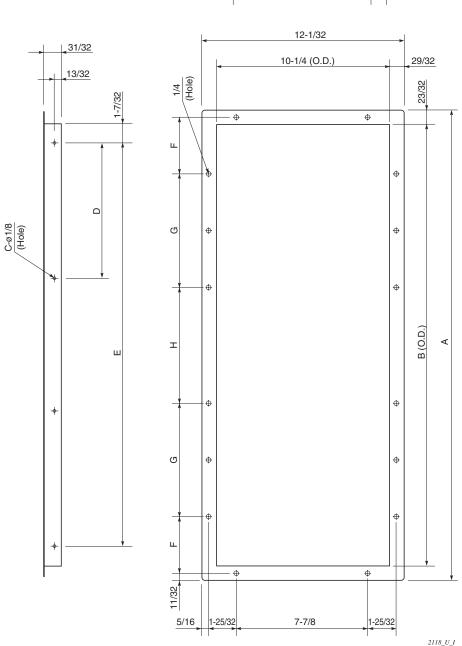
(8)

Indoor Unit: Low Silhouette Ducted (Type F1)

■ Flange for the air intake duct (Field supply)

: For Concealed Ducted Type





				2118_U_1					(inch)
	Α	В	C*	D	Е	F	G	Н	1
Type 26	39-9/32	37-7/8	5	7-3/32	5 × 7-3/32 = 35-7/16	4-23/32	9-21/32 (9-21/32 × 1)	9-27/32	5/8
Type 36	58-3/16	56-25/32	6	9-1/16	6 × 9-1/16 = 54-11/32	4-23/32	19-9/32 (9-21/32 × 2)	9-7/16	25/32

^{*} ø 1/8 Number of holes

Indoor Unit: 4-Way Cassette 36" × 36" (Type U2)

■ Preparation for Suspending

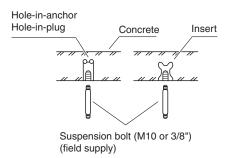
This unit uses a drain pump. Use a carpenter's level to check that the unit is level.

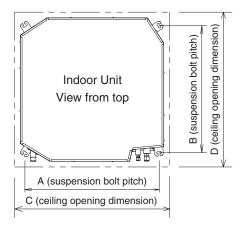
■ Suspending the Indoor Unit

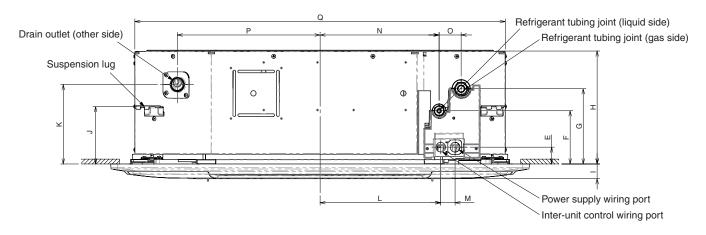
Fix the suspension bolts securely in the ceiling using the method shown in the diagrams by attaching them to the ceiling support structure, or by any other method that ensures that the unit will be securely and safely suspended.

Ту	ре	Α	В	С	D
26	inch	30-15/16	29-21/64	33-55/64 to 35-53/64	33-55/64 to 35-53/64
20	mm	786	745	860 to 910	860 to 910
26. 40	inch	30-15/16	29-21/64	33-55/64 to 35-53/64	33-55/64 to 35-53/64
36, 42	mm	786	745	860 to 910	860 to 910

Note: For DC Fan Motor Tap Setting procedure for 4-Way Cassette 36" × 36", see page 1-157.

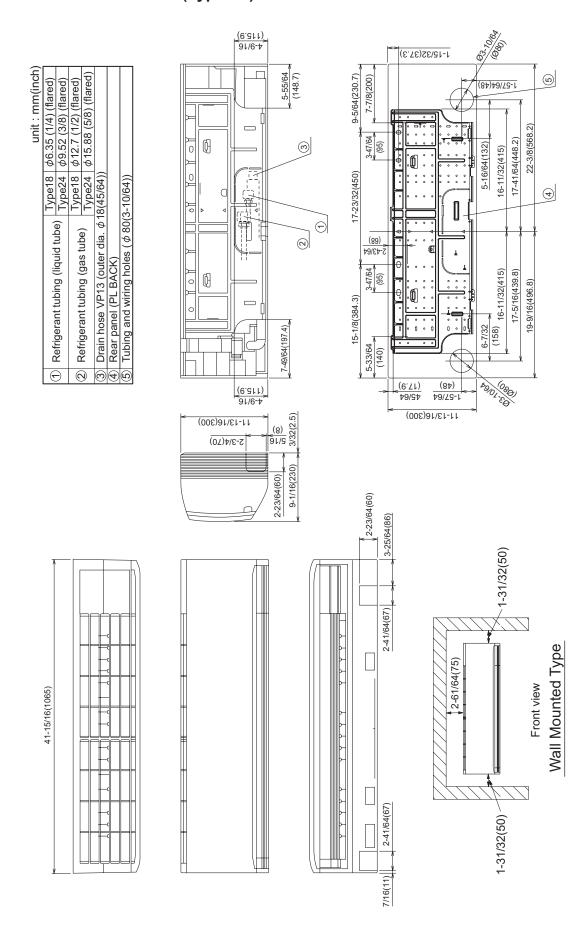






Туре		E	F	G	Н	I	J	K	L	М	N	0	Р	Q
26	inch	1-1/2	4-49/64	6-47/64	10-5/64	1-5/16	5-1/8	7-3/32	10-25/32	1-9/32	10-5/8	1-31/32	12-3/4	33-5/64
20	mm	38	121	171	256	33.5	130	180	274	32.5	270	50	323.8	840
26. 40	inch	1-1/2	4-49/64	6-47/64	12-9/16	1-5/16	5-1/8	7-3/32	10-25/32	1-9/32	10-5/8	1-31/32	12-3/4	33-5/64
36, 42	mm	38	121	171	319	33.5	130	180	274	32.5	270	50	323.8	840

Indoor Unit: Wall mounted (Type K2)

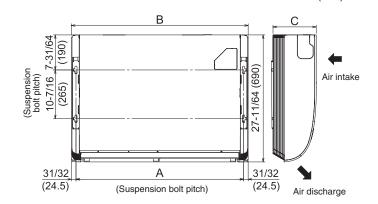


Indoor Unit: Cealing (Type T2)

■ Required Minimum Space for Installation and Service

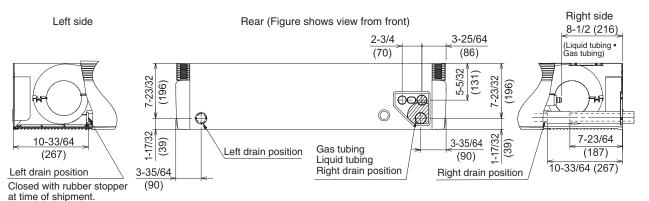
Dimensions of suspension bolt pitch and unit

Type Length		Α	В	С
26	inch	48-17/64	50-13/64	9-1/4
20	mm	1226	1275	235
26 42	inch	62-43/64	62-19/32	9-1/4
36, 42	mm	1541	1590	235

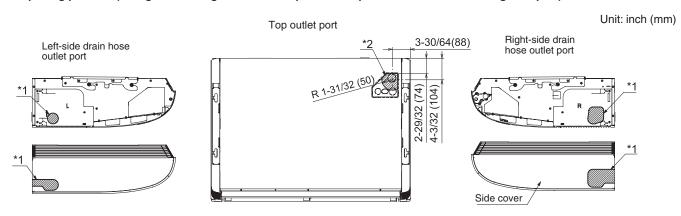


Refrigerant tubing • drain hose position

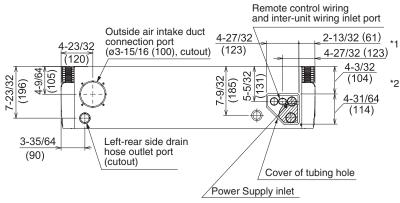
Unit: inch (mm)



Unit opening position (Refrigerant tubing • drain hose • power inlet port • remote control wiring inlet port)



Rear outlet port (Figure shows view from front)

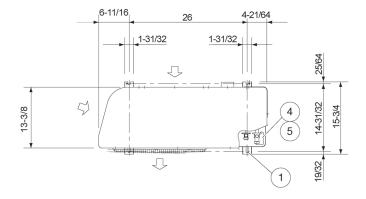


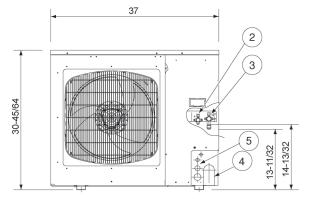
- *1 Use a compass saw, jig saw or similar tool and cut along the indented portion of the side cover and make a hole inside the cover.
- *2 When pulling the refrigerant tubing from the upper side, cut along the indented portion and pass the tubing through the hole.

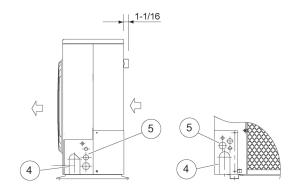
NOTE

Be sure to use sealing putty to seal off the opening to prevent dust.

Outdoor Unit: U-26PE1U6, U-26PS1U6 U-36PE1U6, U-36PS1U6





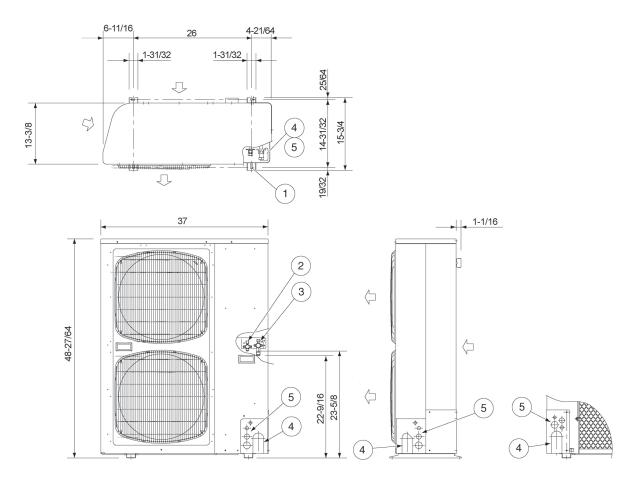


Dimension: inch

- 1 Hole for anchor bolt (4–R6.5) / Anchor bolt: M10
- Refrigerant tube joint (liquid line tube) Flare connection 3/8 in (9.52 mm)
 Refrigerant tube joint (gas line tube) Flare connection 5/8 in (15.88 mm)
 Refrigerant tubing inlet (knock-out hole)

- (5) Power supply inlet (knock-out hole \$\phi 38, \$\phi 29, \$\phi 19, \$\phi 16 mm)

Outdoor Unit: U-42PE1U6, U-42PS1U6



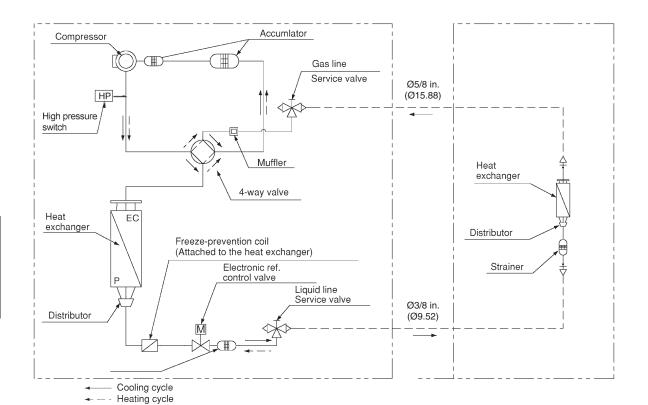
Dimension: inch

- 1 Hole for anchor bolt (4–R6.5) / Anchor bolt: M10
- Refrigerant tube joint (liquid line tube) Flare connection 3/8 in (9.52 mm)
 Refrigerant tube joint (gas line tube) Flare connection 5/8 in (15.88 mm)
 Refrigerant tubing inlet (knock-out hole)

- (5) Power supply inlet (knock-out hole \$\phi38\$, \$\phi29\$, \$\phi19\$, \$\phi16\$ mm)

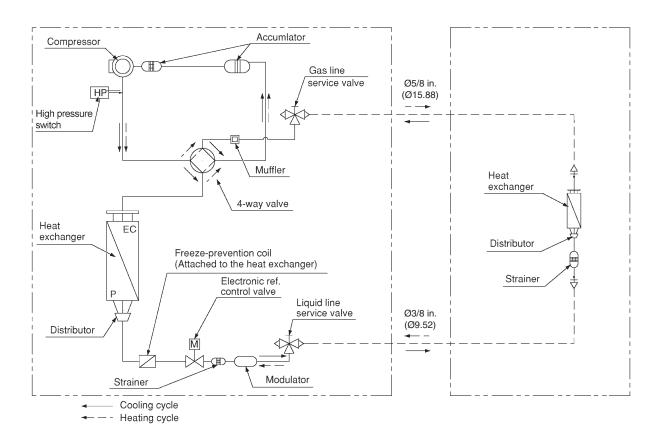
1-5. Refrigerant Flow Diagram

Outdoor Unit: U-26PE1U6, U-26PS1U6 Indoor Unit: Type 26, 30, 36 U-36PE1U6, U-36PS1U6



1-5. Refrigerant Flow Diagram

Outdoor Unit: U-42PE1U6, U-42PS1U6 Indoor Unit: Type 42



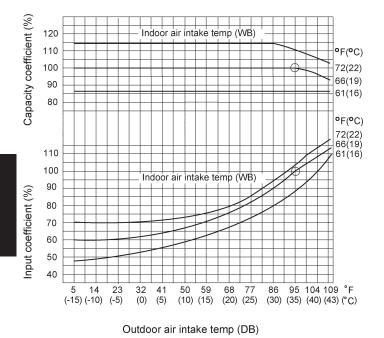
1-6. Operating Range

	Temperature	Indoor Air Intake	Outdoor Air Intake				
Cooling	Maximum	90 °F DB / 77 °F WB	115 °F DB				
	Minimum	64 °F DB / 57 °F WB	14 °F DB				
Heating	Maximum	86 °F DB	64 °F WB / 75 °F DB				
Heating	Minimum	61 °F DB	-4 °F WB / -4 °F DB				

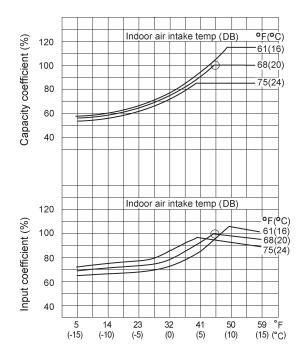
1-7. Capacity Correction Graph According to Temperature Condition

U-26PE1U6, U-26PS1U6 U-36PE1U6, U-36PS1U6 U-42PE1U6, U-42PS1U6

Cooling capacity ratio (maximum capacity)



Heating capacity ratio (maximum capacity)



Outdoor air intake temp (WB)

Outdoor unit heating capacity correction coefficient during of frosting/defrosting

(RH approximately 85%)

		-							-		_		-						
	Outdoor intake air temperature °F WB(85% RH)	5 (-15)	14 (-10)	16 (-9)	18 (-8)	19 (-7)	21 (-6)	23 (-5)	25 (-4)	27 (-3)	28 (-2)	30	32 (0)	34 (1)	36 (2)	37 (3)	39 (4)	41 (5)	43 (6)
	(°C) ` ´	(-13)	(-10)	(-9)	(-0)	(-/)	(-0)	(-5)	(-4)	(-3)	(-2)	(-1)	(0)	(1)	(2)	(3)	(4)	(3)	(0)
(Correction coefficient	0.97	0.97	0.96	0.96	0.95	0.94	0.91	0.89	0.88	0.87	0.87	0.87	0.88	0.89	0.91	0.92	0.95	1.0

To calculate the heating capacity with consideration for frosting/defrosting operation, multiply the heating capacity found from the capacity graph by the correction coefficient from the table above.

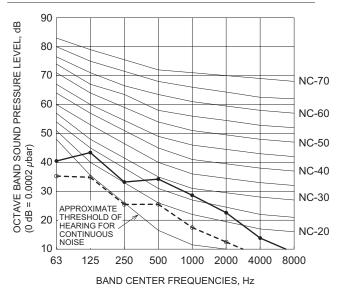
Concealed Duct (Type F2)

MODEL : S-26PF2U6

SOUND LEVEL: HIGH 35 dB(A), NC 29/ LOW 26 dB(A), NC 20

CONDITION: 4.9 ft. directly below unit

SOURCE: 208-230V,1Phase,60Hz

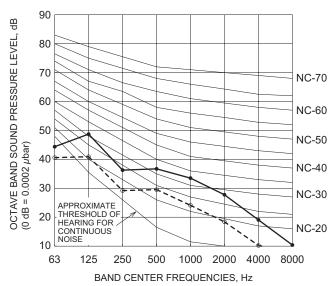


MODEL: S-36PF2U6

SOUND LEVEL: HIGH 39 dB(A), NC 33/ LOW 31 dB(A), NC 24

CONDITION : 4.9 ft. directly below unit

SOURCE: 208-230V,1Phase,60Hz



• 4-Way Cassette (Type U1)

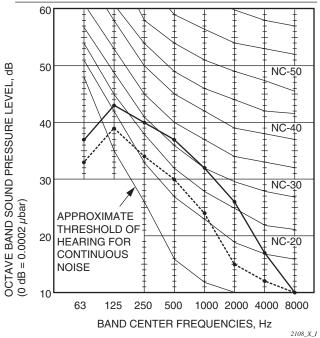
MODEL : S-26PU1U6

SOUND LEVEL : HIGH 38 dB(A), NC 31

LOW 31 dB(A), NC 23

CONDITION : 4.9 ft. directly below unit

SOURCE : 208 - 230 V, 1 Phase, 60 Hz

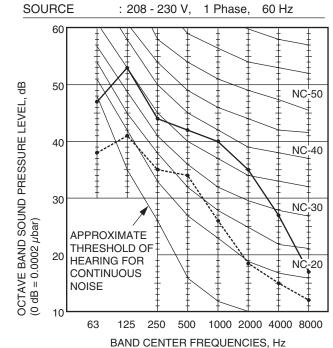


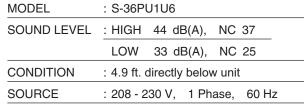
MODEL : S-42PU1U6

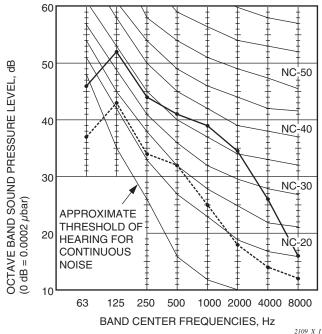
SOUND LEVEL : HIGH 45 dB(A), NC 38

LOW 34 dB(A), NC 27

CONDITION : 4.9 ft. directly below unit







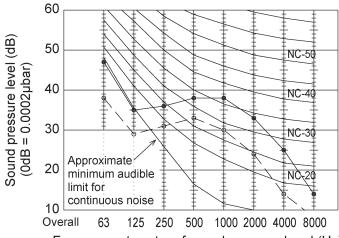
2110 X I

Wall Mounted (Type K1)

LOW 35 dB(A), NC 27

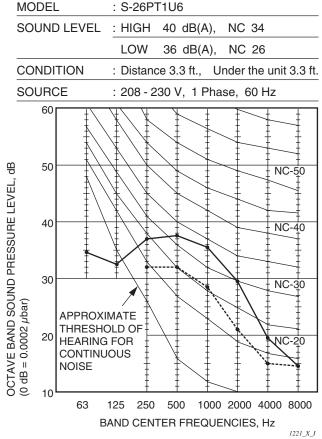
CONDITION : Distance 3.3 ft., Under the unit 3.3 ft.

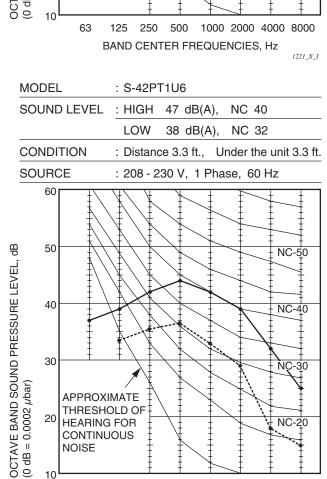
SOURCE : 208 - 230 V, 1 Phase, 60 Hz



Frequency at center of sound pressure band (Hz)

Ceiling (Type T1)





250

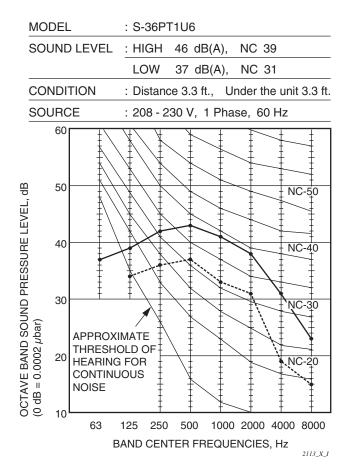
500

BAND CENTER FREQUENCIES, Hz

1000 2000 4000 8000

2114_X_I

10



● Low Silhouette Ducted (Type F1)

MODEL: S-26PF1U6

SOUND LEVEL: HIGH 34 dB(A), NC 22 / LOW 27 dB(A), NC 18

CONDITION: 4.9 ft. directly below unit

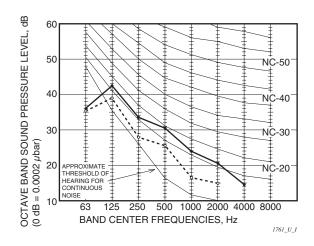
SOURCE : 208 - 230 V, 1 Phase, 60 Hz

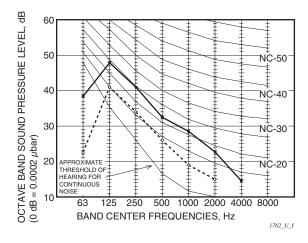
MODEL: S-36PF1U6

SOUND LEVEL: HIGH 38 dB(A), NC 30 / LOW 31 dB(A), NC 21

CONDITION : 4.9 ft. directly below unit

SOURCE : 208 - 230 V, 1 Phase, 60 Hz





●4-Way Cassette 36" × 36" (Type U2)

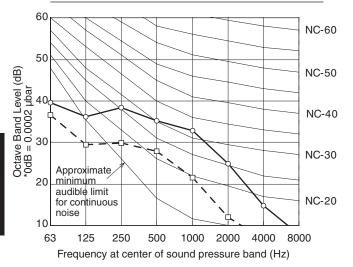
MODEL : S-26PU2U6

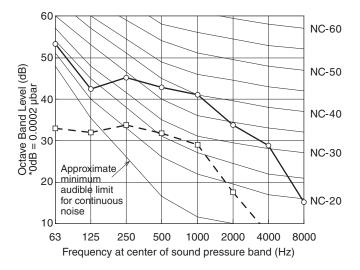
SOUND LEVEL : High 37 dB(A)

Low 28 dB(A)

CONDITION : Under the unit 4.9 ft.

SOURCE : 208-230V, 1 Phase, 60Hz

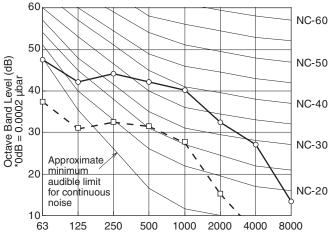




REMARKS:

- 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.

MODEL	: S-36PI	U2U6						
SOUND LEVEL : High Low CONDITION : Unde		44 dB(A)						
	Low	32 dB(A)						
CONDITION	CONDITION : Under the unit 4.9 ft.							
SOURCE	: 208-23	30V. 1 Phase. 60Hz						



Frequency at center of sound pressure band (Hz)

NOTE

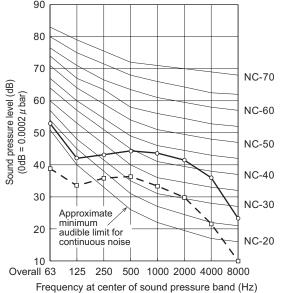
To evaluate "Noise level" the maximum number of the measured OCTAVE BAND SOUND PRESSURE LEVEL is used. Read the number on each BAND CENTER FREQUENCIES (horizontal axis) ranging from 63 Hz to 8000 Hz and select the maximum value (vertical axis) among them.

●Wall Mounted (Type K2)

_	<u> </u>	_	High
_		_	Low

1. Specifications

MODEL	: S-26P	PK2U6
SOUND LEVEL	_: High	48 dB(A)
	Low	38 dB(A)
CONDITION	: Distan	nce 3.3 ft., Under the unit 3.3 ft.
SOURCE	: 208-23	30V, 1 Phase, 60Hz
90		
80		



NC-20

1-8. Noise Criterion Curves

Ceiling (Type T2)

: S-26PT2U6 MODEL SOUND LEVEL: High 39 dB(A) Low 31 dB(A) CONDITION : 3.3 ft. from front of outlet at height of 3.3 ft. SOURCE : 208-230V, 1 Phase, 60Hz 90 80 70 NC-70 Sound pressure level (dB) (0dB = $0.0002 \mu \text{ bar}$) 60 NC-60 50 NC-50 40 NC-40 308 NC-30 Approximate 20 minimum NC-20 audible limit for 10 continuous noise Overall 63 125 250 500 1000 2000 4000 8000 Frequency at center of sound pressure band (Hz)

SOUND LEVEL: High 46 dB(A) Low 36 dB(A) CONDITION : 3.3 ft. from front of outlet at height of 3.3 ft. : 208-230V, 1 Phase, 60Hz SOURCE 90 80 70 NC-70 Sound pressure level (dB) (0dB = 0.0002μ bar) 60 NC-60 NC-50

: S-42PT2U6

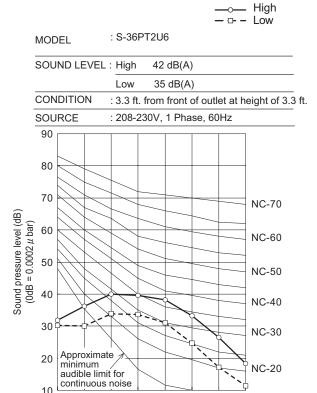
MODEL

30

20 Approximate minimum

audible limit for

10 continuous noise Overall 63 125 250 500 1000 2000 4000 8000 Frequency at center of sound pressure band (Hz)



125 250 500 1000 2000 4000 8000 Overall 63 Frequency at center of sound pressure band (Hz)

10

NC-40

NC-30

NC-20

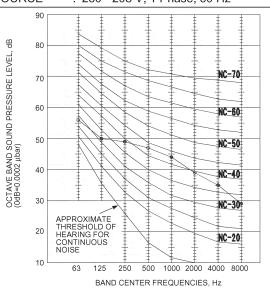
Outdoor Units

MODEL : U-26PE1U6, U-26PS1U6

SOUND LEVEL: 49 dB(A), NC 43

CONDITION : Distance 3.3 ft., Height 3.3 ft.

SOURCE : 230 - 208 V, 1 Phase, 60 Hz

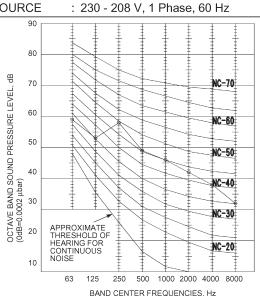


MODEL : U-42PE1U6, U-42PS1U6

SOUND LEVEL: 53 dB(A), NC 50

CONDITION : Distance 3.3 ft., Height 3.3 ft.

SOURCE

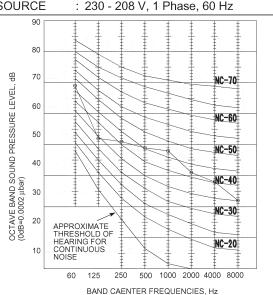


MODEL :U-36PE1U6, U-36PS1U6

SOUND LEVEL: 52 dB(A), NC 47

CONDITION : Distance 3.3 ft., Height 3.3 ft.

: 230 - 208 V, 1 Phase, 60 Hz SOURCE



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 nechoic room.

NOTE

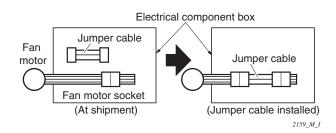
To evaluate "Noise level" the maximum number of the measured OCTAVE BAND SOUND PRESSURE LEVEL is used. Read the number on each BAND CENTER FREQUENCIES (horizontal axis) ranging from 63 Hz to 8000 Hz and select the maximum value (vertical axis) among them.

1-9. Increasing the Fan Speed

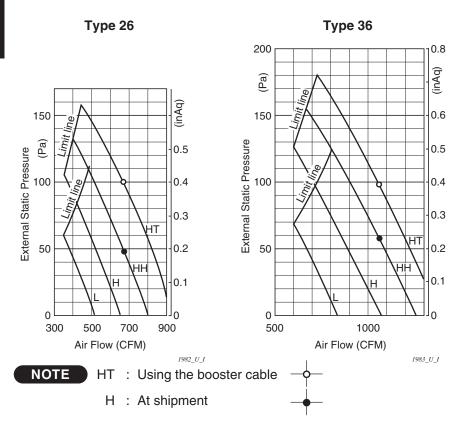
Low Silhouette Ducted (Type F1)

If external static pressure is too great (due to long extension of ducts, for example), the air flow volume may drop too low at each air outlet. This problem may be solved by increasing the fan speed using the following procedure:

- (1) Remove 4 screws on the electrical component box and remove the cover plate.
- (2) Disconnect the fan motor sockets in the box.
- (3) Take out the jumper cable (sockets at both ends) clamped in the box.
- (4) Securely connect the jumper cable sockets between the disconnected fan motor sockets in step 2.
- (5) Place the cable neatly in the box and reinstall the cover plate.



Indoor Fan Performance



■ How to read the diagram

The vertical axis is the external static pressure (Pa) while the horizontal axis represents the AIR FLOW (CFM). The characteristic curves for "HT", "H", "M" and "L" fan speed control are shown.

The nameplate values are shown based on the "H" air flow. For the Type 26, the air flow is 636 CFM, while the external static pressure is 49 Pa at "H" position. If external static pressure is too great (due to long extension of duct, for example), the air flow volume may drop too low at each air outlet.

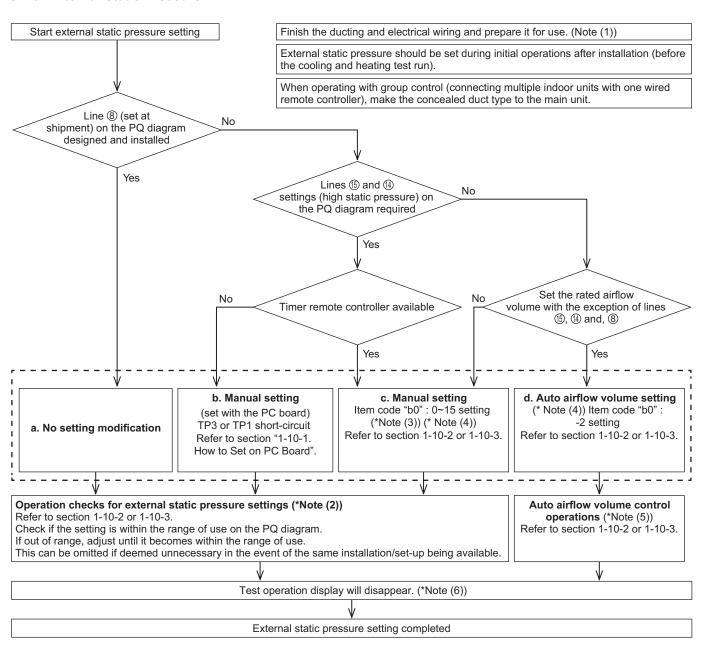
This problem may be solved by increasing the fan speed as explained above.

1-10. External Static Pressure Setting

Concealed Duct (Type F2)

For concealed duct type indoor units, the ventilating resistance so-called "external static pressure" becomes greatly different depending on the connected duct length, shape, number of air outlet ports and types of filters. When installing this unit, be sure to carry out the external static pressure setting in order to operate in the rated airflow volume. Choose one of the following methods from "a", "b", "c" or "d" as shown in the flow chart (within the dotted lines) and then make the setting accordingly.

Flow of External Static Pressure



NOTE

- (1) Check the following items before performing the setting-check operations or auto airflow volume operations.
 - Check to make sure that the electrical wiring and ducting have been completed. Activate the stand-by mode.
 In particular, make sure that the closed damper located in the middle of the duct is open, if installed.
 Also, make sure that air filters have been installed inside the air inlet duct. Check to make sure air is not leaking from the joints.
 - 2) If multiple air outlets and air inlets are included, adjust the airflow volume ratio of all of them until they meet the design airflow ratio.
 - 3) Make sure the address setting has been completed.
- (2) The operation check will be completed in approximately three minutes if the settings have been made correctly. The settings will be modified if they are out of the range of use (maximum 30 minutes). If this is not completed within 31 minutes, check whether the air speed is set to "H" or not.
- (3) Refer to Table 1-2 and Fig. 1-2 for details on the relationship between the value of item code "b0" and the external static pressure.
- (4) When set in group control (connecting multiple indoor units with one wired remote controller), set each indoor unit to item code "b0". When amending the setting after selecting [b. Manual setting] (due to airflow path changes, etc.), it is necessary to cancel [b. Manual setting] (disconnect short-circuit connector). When [b. Manual setting] has not been cancelled, [c. Manual setting] and [d. Auto airflow volume setting] will be activated if selected, but [b. Manual setting] takes precedence when the power is switched back on after power outages, etc.
- (5) If this is not completed within 8 minutes, check the drive mode, air speed and air inlet temperature.
- (6) When set in group control (connecting multiple indoor units with one wired remote controller), the test run operations display will disappear once the external static pressure setting check or auto airflow volume control operation check have been completed for the main unit. Decisions on sub-unit complete are not possible. The test run operation display will disappear after one hour even if the external static pressure setting check or auto airflow volume control operation check have not been completed.

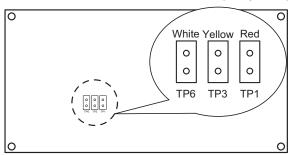


CAUTION

- 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. 1-2 for the external static pressure setting range.
- There are cases in which automatic variable dampers and other mounted items may trigger the P12 alarm on systems that modify the static pressure of outdoor units when the auto airflow volume control operations or setting check operations are carried out if high static pressure in the outdoor unit is lowered. In this event, lower the dampers, etc., so that the static pressure in the outdoor unit reaches its lowest level, and then carry out the auto airflow volume control operations or setting check operations.
- 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.
- Set the air inlet temperature within the range for use. The auto airflow volume control will not function if the air inlet temperature is over 113°F(45°C) or not in the fan mode.

1-10-1. How to Set on PC Board

- Turn off the power breaker to halt the supply of electricity to the PC board.
- 2. Open the lid of electrical equipment box and check where the short-circuit pin on the indoor unit control PC board is located (Fig. 1-1)
- 3. Short circuit the applicable short-circuit pin in accordance with the selected short-circuit pin connected (Fig. 1-2).
 - 0.60 in.WC (150 Pa): TP3 (2P: yellow) short-circuit
 - 0.56 in.WC (140 Pa): TP1 (2P: red) short-circuit
 - * Use the short-circuit connector (2P: yellow) supplied.



Indoor Unit control PC board

Fig. 1-1

1-10-2. Operating the Timer Remote Controller (CZ-RTC2)

1-10-2-1. How to set the external static pressure

- 1. Press and hold down the , and SET buttons simultaneously for 4 or more seconds.
 - (STTING, 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 UNIT.
 - Only the fan motor for the selected indoor unit will operate during this.
- 3. Specify the " ♣ ♣ ↑ item code by pressing the ♠ / ▼ buttons for the temperature setting buttons and confirm the values. (" ♣ ↑ * set at shipment)
- 5. Press the (SET) 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.

1-10-2-2. Auto External Static Pressure Setting Operation and Setting-Check Operation

- Press and hold down the button for 4 or more seconds.
 - " TEST " will be displayed on the LCD display.
- 2. Press the button to start the test run. [Test Run] will be displayed on the LCD display.
- 3. Select the fan mode and set it to "H" by pressing the \$\infty\$ button.

NOTE

The auto external static pressure setting operation and setting-check operation will not be performed unless [H] has been selected for the fan mode.

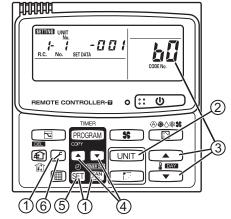
- 4. The fan motor will be activated, the auto external static pressure setting operation and setting-check operation will be performed for about 3 to 30 minutes. The fan speed will change automatically while these operations are in progress. When these operations completed, "TEST" will be disappeared from the LCD display.
- 5. Press the :: U button to halt the test run.

Table 1-1 Selection of connected shortcircuit pins

External static pressure	
at the time of rated	Short-circuit pin
airflow volume	
Unusable	TP6 (2P: white)
0.60 in.WC (150 Pa)	TP3 (2P: yellow)
0.56 in.WC (140 Pa)	TP1 (2P: red)

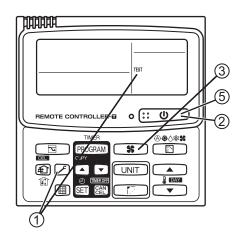
Table 1-2 Setting the external static pressure

Indoo	or unit	Item code
26	36	
External static pressur	e of the rated air flow	b0
volume		
0.60 in.WC (150 Pa)	0.60 in.WC (150 Pa)	00 15
0.56 in.WC (140 Pa)	0.56 in.WC (140 Pa)	00 14
0.52 in.WC (130 Pa)	0.52 in.WC (130 Pa)	00 13
0.48 in.WC (120 Pa)	0.48 in.WC (120 Pa)	00 12
0.40 in.WC (100 Pa)	0.44 in.WC (110 Pa)	00 11
0.28 in.WC (70 Pa)	0.40 in.WC (100 Pa)	00 08
0.24 in.WC (60 Pa)	0.28 in.WC (70 Pa)	00 06
0.20 in.WC (50 Pa)	0.20 in.WC (50 Pa)	00 05
0.12 in.WC (30 Pa)	0.12 in.WC (30 Pa)	00 03
0.04 in.WC (10 Pa)	0.04 in.WC (10 Pa)	0001
No auto airflow volume	e setting	-881
Auto airflow volume se	etting	-882

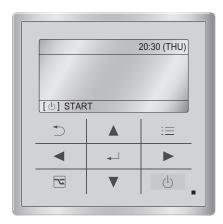


NOTE:

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



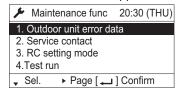
1-10-3. Operating the High-spec Wired Remote Controller (CZ-RTC3 / CZ-RTC5)



How to set the external static pressure

 Keep pressing the ______, ____ and _____ buttons simultaneously for 4 or more seconds.

The "Maintenance func" screen appears on the LCD display.



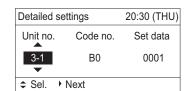
2. Press the ▼ or ▲ button to see each menu. If you wish to see the next screen instantly, press the

or button.

Select "8. Detailed settings" on the LCD display and press the button.



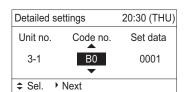
The "Detailed settings" screen appears on the LCD display. Select the "Unit no." by pressing the or button for changes.



3. Select the "Code no." by pressing the or button

Change the "Code no." to "B0" by pressing the

■ button (or keeping it pressed).



Select the "Set data" by pressing the button.

Select one of the "Set data" among "0001" – "0015" according to the desired external static pressure setting by pressing the or button.

(See the table below.)

When setting to auto airflow volume control:

Select the setting data to "-002".

Then press the button.

Indoo	or unit	Item code
26	36	
External static pressure	of the rated air flow	В0
volume		
0.60 in.WC (150 Pa)	0.60 in.WC (150 Pa)	0015
0.56 in.WC (140 Pa)	0.56 in.WC (140 Pa)	0014
0.52 in.WC (130 Pa)	0.52 in.WC (130 Pa)	0013
0.48 in.WC (120 Pa)	0.48 in.WC (120 Pa)	0012
0.40 in.WC (100 Pa)	0.44 in.WC (110 Pa)	0011
0.28 in.WC (70 Pa)	0.40 in.WC (100 Pa)	8000
0.24 in.WC (60 Pa)	0.28 in.WC (70 Pa)	0006
0.20 in.WC (50 Pa)	0.20 in.WC (50 Pa)	0005
0.12 in.WC (30 Pa)	0.12 in.WC (30 Pa)	0003
0.04 in.WC (10 Pa)	0001	
No auto airflow	volume setting	-001
Auto airflow v	olume setting	-002

button and press the button.

The "Exit detailed settings and restart?" (Detailed settingend) screen appears on the LCD display.

Select "YES" and press the button.

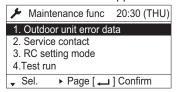
When the setting is completed, perform the test run for the external static pressure setting described in "Auto External Static Pressure Setting Operation".



Auto External Static Pressure Setting Operation

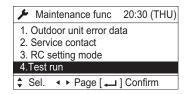
6. Keep pressing the , and buttons simultaneously for 4 or more seconds.

The "Maintenance func" screen appears on the LCD display.



7. Press the or button to see each menu. If you wish to see the next screen instantly, press the button.

Select "4. Test run" on the LCD display and press the button.



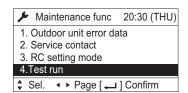
The "Test run" screen appears on the LCD display.



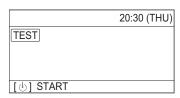
Change the display from OFF to ON by pressing the
or button. Then press the button.



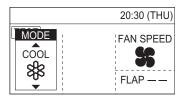
The "Maintenance func" screen appears on the LCD display.



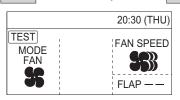
8. Press the ____ button. "TEST" will be displayed on the LCD display.



Press the button. Test run will be started.
 Test run setting mode screen appears on the LCD display.

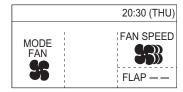


10. Set the operation mode to " **\$5**" and fan speed mode to " **\$6**" button or **\$7**0 or **\$6**0 button. Then press the **\$6**0 button.



The fan motor will be activated, the auto external static pressure setting operation and setting-check operation will be performed for about 3 to 30 minutes.

The fan speed will change automatically while these operations are in progress. When these operations completed, "TEST" will be disappeared from the LCD display.



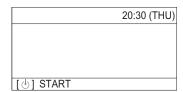
NOTE:

The auto external static pressure setting operation and setting-check operation will not be performed unless

" \$\ (MODE FAN)" and " \$\ (FAN SPEED)" have been selected.

11. Press the button.

The LCD display will be returned to the initial screen.



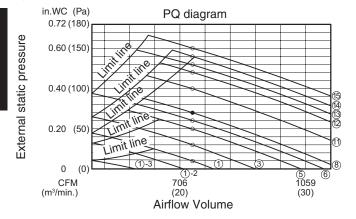
NOTE:

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

Indoor Fan Performance

Item code " 🗗 "																					
		00	15	aa	14	00	13	aa	12	00	11	aa	08	aa	8	00	05	aa	03	00	01
		Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating										
	15	Н	Н										at shipment								
	14)			Н	Н							_ 	m								
	13	М	М			Н	Н					Setting	ship								
	12							Н	Н			Se	at								
	11)				М					Н	Н										
ab	8			М			М	М	М			Н	Н								
=	6	L	L			М				М	М			Н	Н						
	(5)											М	М			Н	Н				
	3				L		L	L	L	L	L			М	М	М	М	Н	Н		
	1			L		L						L	L	L	L			М	М	Н	Н
	1)-2															L	L	L	L	М	М
	1-3																			L	L

Type 26



Type 36

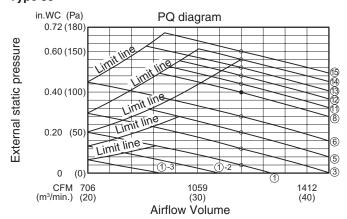
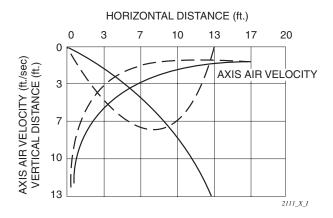


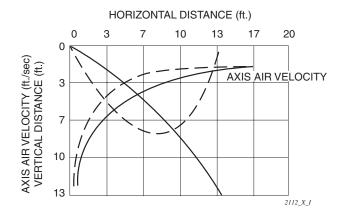
Fig. 1-2

• 4-Way Cassette (Type U1)

Type 26



Type 36, 42



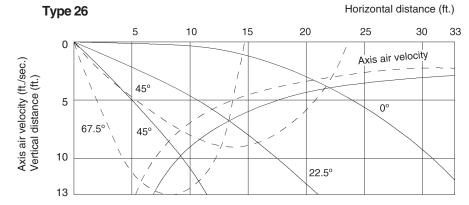
: LOUVER ANGLE 20° in Cooling mode
: LOUVER ANGLE 60° in Heating mode

Condition Fan Speed : Hi

Room air temp.: 80°F DB in cooling mode

68°F DB in heating mode

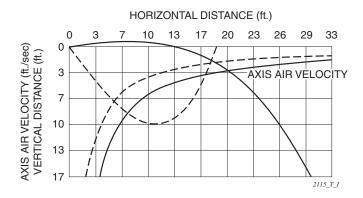
■ Wall Mounted (Type K1)



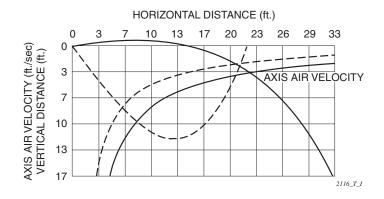
	—— COOLING	HEATING
FAN SPEED	HIGH	HIGH
ROOM AIR TEMP.	80°F	70°F
FLAP ANGLE	0°, 22.5°, 45°	45°, 67.5°

● Ceiling (Type T1)

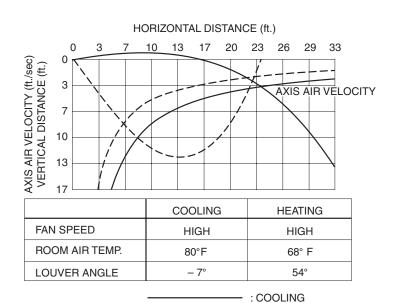
Type 26



Type 36



Type 42

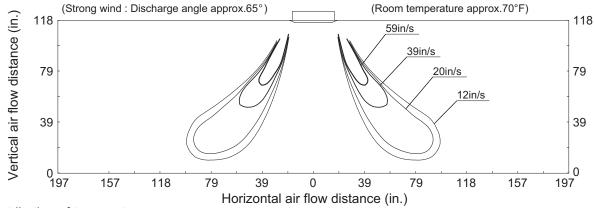


-----: HEATING

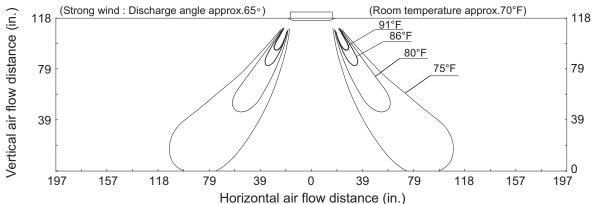
• 4-Way Cassette 36"× 36" (Type U2)

Type 26

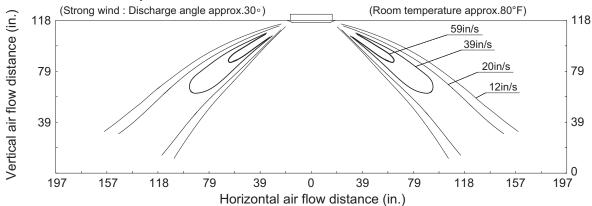
Heating: Distribution of wind velocity

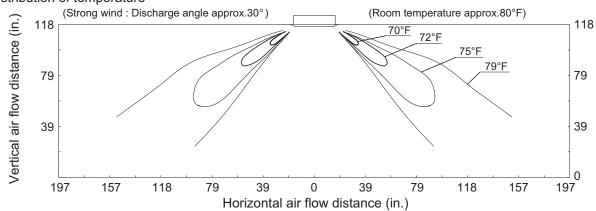


Heating: Distribution of temperature



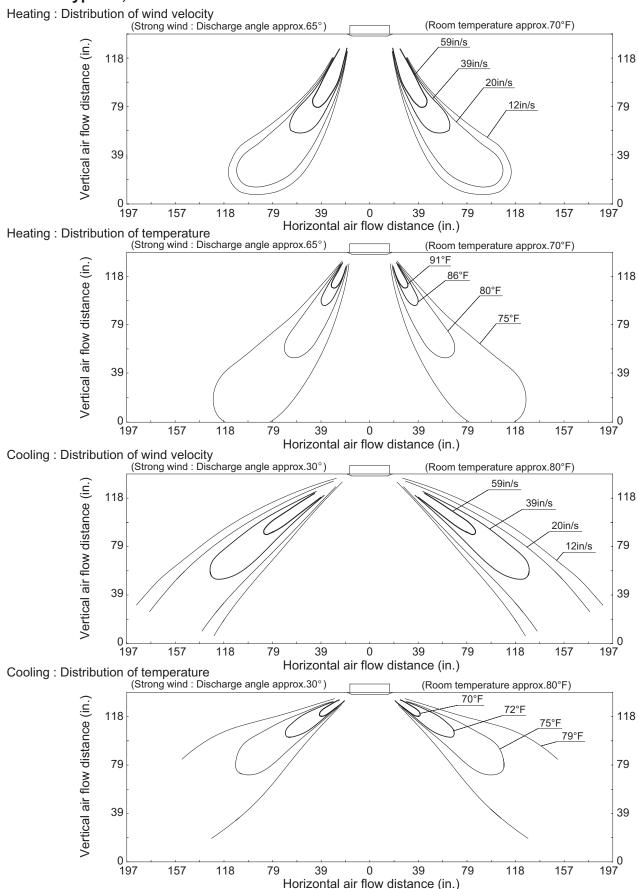
Cooling: Distribution of wind velocity





• 4-Way Cassette 36" × 36" (Type U2)

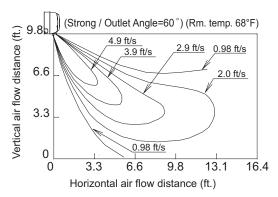
Type 36, 42



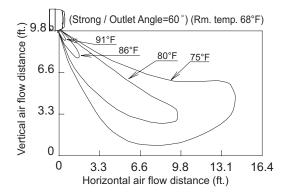
• Wall Mounted (Type K2)

Type 26

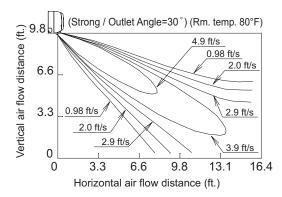
Heating: Distribution of wind velocity

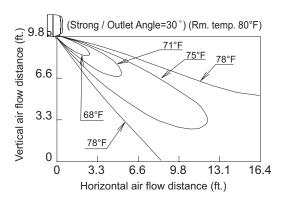


Heating: Distribution of temperature



Cooling: Distribution of wind velocity

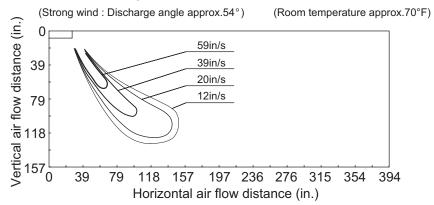




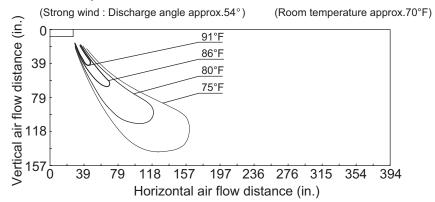
• Ceiling (Type T2)

Type 26

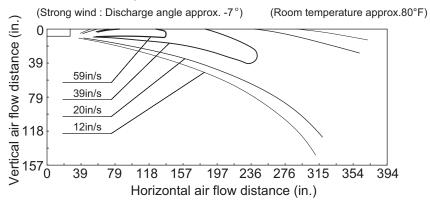
Heating: Distribution of wind velocity

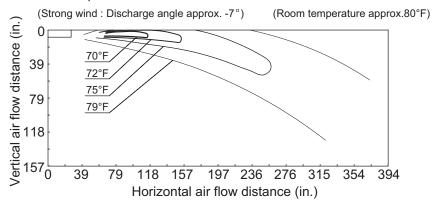


Heating: Distribution of temperature



Cooling: Distribution of wind velocity

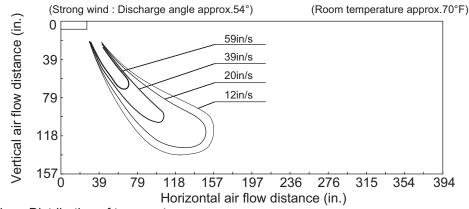




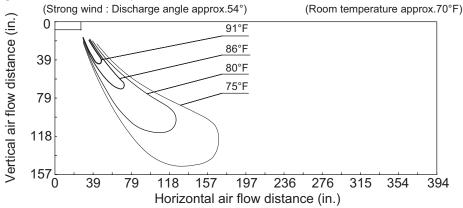
• Ceiling (Type T2)

Type 36, 42

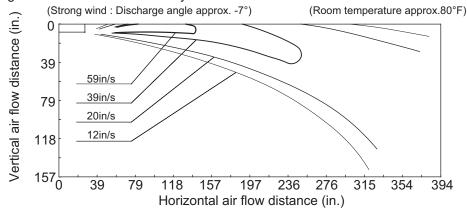
Heating: Distribution of wind velocity

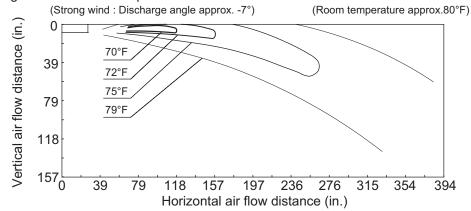


Heating: Distribution of temperature



Cooling: Distribution of wind velocity





1-12. 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.



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 15 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 single side.
- (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.

Recommended Wire Length and Wire Diameter for Power Supply System

You must follow LOCAL ELECTRICAL CODES for wiring.

Outdoor Unit

Туре	Time delay fuse or circuit capacity
U-26PE1U6	30 A
U-36PE1U6	35 A
U-42PE1U6	40 A

Туре	Time delay fuse or circuit capacity
U-26PS1U6	25 A
U-36PS1U6	30 A
U-42PS1U6	35 A

Indoor Unit

Туре	Time delay fuse or circuit capacity
U1, K1, T1, F1, F2, U2, K2, T2	15 A

Control wiring

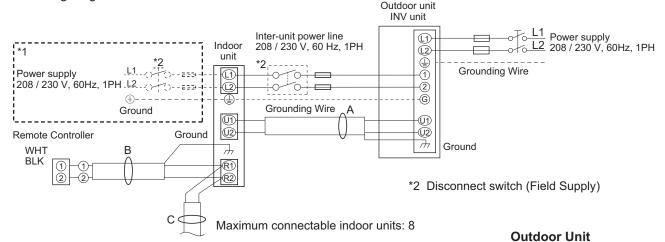
(A) Inter-unit control wiring (between outdoor and indoor units)	(B) Remote control wiring	(C) Control wiring for group control
AWG #18	AWG #18	AWG #18
(0.75 mm²)	(0.75 mm²)	(0.75 mm²)
Use shielded wiring*	Use shielded wiring*	Use shielded wiring*
Max. 3,280 ft.	Max. 1,640 ft.	Max. 650 ft. (Total)
(Max. 1,000 m)	(Max. 500 m)	(Max. 200 m (Total))

AWG=American Wire Gauge

With ring-type wire terminal

Wiring System Diagrams

Basic wiring diagram for standard control



NOTE

- When the power source is not supplied from the outdoor unit via the inter-unit power line, provide external power source in the indoor unit.
- Disconnect Switch may be needed by the National/Local code.



ALWAYS COMPLY WITH NATIONAL AND LOCAL CODE REQUIREMENTS.

Indoor Unit

control

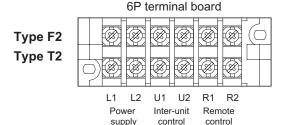
wiring

Inter-unit

control wiring power wiring

Power wiring

8P terminal board

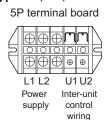


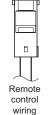
NOTE

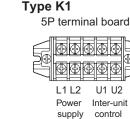
- (1) Refer to Section "Recommended Wire Length and Wire Diameter for Power Supply System" for the explanation of "A", "B" and "C" in the above diagram.
- (2) The basic connection diagram of the indoor unit shows the 6P terminal board, so the terminal boards in your equipment may differ from the diagram.
- (3) Refrigerant Circuit (R.C.) address should be set before turning the power on.
- (4) Regarding R.C. address setting, refer to the installation instructions supplied with the remote controller unit (optional). Auto address setting can be executed by remote controller automatically. Refer to the installation instructions supplied with the remote controller unit (optional).
- (5) Ensure that the ground shield cable for inter-unit control wiring between outdoor and indoor units should be connected to the outdoor unit.
- (6) For the inter-unit control wiring between the indoor units, be sure to connect between the shield. Then connect it to the shield of inter-unit control wiring
- (7) Ensure that the ground shield cable for a remote controller should be connected only to the indoor unit.

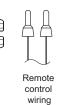
between outdoor and indoor units.





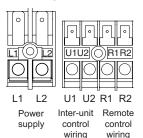






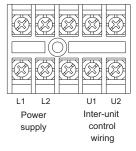
Type U2

Inter-unit



Type K2

5P terminal board





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 approx. 3/8 inch (10 mm) and tightly twist the wire ends. (Fig. 1-3)
- (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. 1-4)

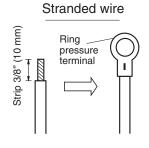


Fig. 1-3

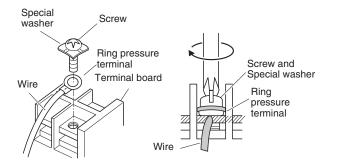
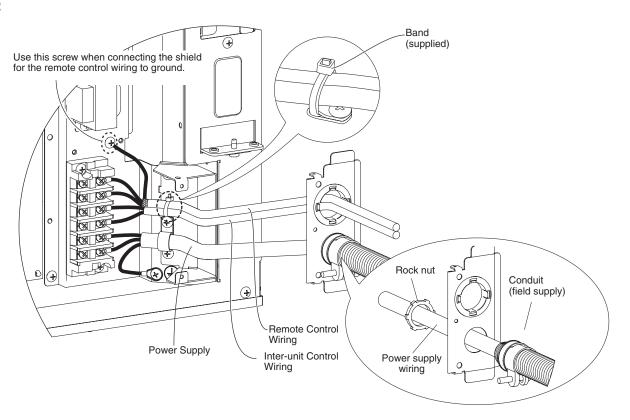


Fig. 1-4

■ Wiring sample

Type F2



1-13. Installation Instructions

Outdoor Unit

1. Tubing Size

Single type

- Refrigerant tubing between the indoor and outdoor units should be kept as short as possible.
- The length of the refrigerant tubes between the indoor and outdoor units are limited by the elevation difference between the 2 units. During tubing work, try to make both the tubing length (L) and the difference in elevation (H1) as short as possible. Refer to Table 1-4.

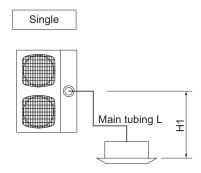


Table 1-3

Indoor unit type	Type 26, 36	Type 42
Maximum length	165 ft.	165 ft.
Charge-less tubing length (actual length)	10 – 100 ft.	15 – 100 ft.
Additional charge per 1 ft.	0.43	oz.

Maximum indoor-outdoor	If outdoor unit is higher	H1	≤ 100
height difference	If outdoor unit is lower	H1	≤ 50

Table 1-4 Tubing Data for Models

Tubing Data		Models	U-26PE1U6 U-26PS1U6	U-36PE1U6 U-36PS1U6	U-42PE1U6 U-42PS1U6
Tubing size	Liquid tube	in. (mm)	3/8 (9.52)	3/8 (9.52)	3/8 (9.52)
outer diameter	Gas tube	in. (mm)	5/8 (15.88)	5/8 (15.88)	5/8 (15.88)
Limit of tubing length		(ft.)	165	165	165
Limit of elevation difference between the 2 units	Outdoor unit is placed		100	100	100
	higher.	(ft.)	100	100	100
	Outdoor unit is placed		50	50	50
	lower.	(ft.)	50	30	50
Max. allowable tubing length at shipment (ft.)		10 – 100	10 – 100	10 – 100	
Required additional refrigerant * 1 (oz./ft.)		a) 0.43	b) 0.43	b) 0.43	
Refrigerant charged at shipment (lbs.)		4.2	6.2	7.9	

No additional charge of compressor oil is necessary.

Table 1-5 List of Connection Tube Sizes

	Main tubing (L)
Type capacity of indoor units	26 – 42
Gas tube	ø5/8"
Liquid tube	ø3/8"
Amount of additional charge per 1 ft.	0.43 oz.

^{*1} If total tubing length becomes 100 to 165 ft., charge additional refrigerant by 0.43 oz./ft.



- 1. This unit requires no additional refrigerant charge up to 100 ft. tubing length. In case of more than 100 ft., additional refrigerant charge is required. Refer to Table 1-5.
- 2. In case of multi type installation, indoor units should be installed within the same room. If multi type indoor units are installed in different rooms, temperature control may develop problems because thermostat operation must follow the thermostat condition of 1 indoor unit only (the main unit).



WARNING

Always check the gas density for the room in which the unit is installed.

2. 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, 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).

ASHRAE and the International Mechanical Code of the ICC as well as CSA provide guidance and define safeguards related to the use of refrigerants, all of which define a Refrigerant Concentration Level (RCL) of 25 pounds per 1,000 cubic feet for R410A refrigerant. For additional guidance and precautions related to refrigerant safety, please refer to the following documents:

International Mechanical Code 2012 (IMC-2012) (or more recently revised)
ASHRAE 15
ASHRAE 34

3. SELECTING THE INSTALLATION SITE

3-1. Outdoor Unit

AVOID:

- heat sources, exhaust fans, etc. (Fig. 1-5)
- damp, humid or uneven locations

DO:

- choose a place as cool as possible.
- choose a place that is well ventilated and outside air temperature does not exceed maximum 115°F constantly.
- allow enough room around the unit for air intake/ exhaust and possible maintenance. (Fig. 1-6)
- use lug bolts or equal to bolt down unit, reducing vibration and noise.
- if cooling operation is to be used when the outdoor air temperature is 23°F or below, install a duct on the outdoor unit.



Distance between obstructions and the unit air inlet and outlet must be as shown below.

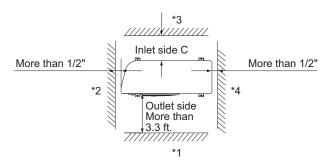


Fig. 1-6

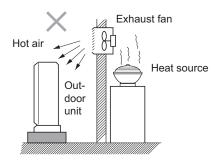


Fig. 1-5

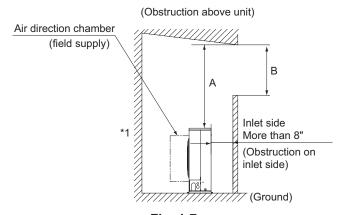


Fig. 1-7



- Concerning inlet-side distance "C" (Fig. 1-6)
 The minimum for distance "C" is 6" if there are no obstructions on the outlet side (wall *1 side) and *2 or *4 is not present. In all other cases, the minimum for distance "C" is 8"
- If the unit is installed with the outlet side facing wall *1, then there must be no obstructions on 2 of the remaining 3 sides: *2, *3, *4.
- If wall *1 is on the outlet side (Fig. 1-6), or if obstructions are present on all 3 sides *2, *3, and *4 (Fig. 1-6), then the minimum distance for "A" and "B" is 80" (Fig. 1-7). Even if there is no wall on the outlet side, a minimum of 3.3 ft. is required.

Installation requirements

- provide a solid base (concrete block, 4"×16" beams or equal), a minimum of 6" above ground level to reduce humidity and protect the unit against possible water damage and decreased service life. (Fig. 1-8)
- use lug bolts or equal to bolt down unit, reducing vibration and noise.

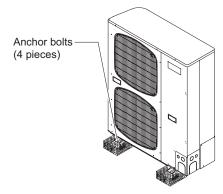


Fig. 1-8

1. Specifications

3-2. Air-Discharge Chamber for Top Discharge

Be sure to install an air discharge chamber in the field when:

- it is difficult to keep a space of min. 20" between the air discharge outlet and an obstacle.
- the air discharge outlet is facing a sidewalk and discharged hot air may bother passers-by.
 Refer to Fig. 1-9.

3-3. Installing the Unit in Heavy Snow Areas

In locations with strong wind, snow-proof ducting should be fitted and direct exposure to the wind should be avoided as much as possible.

■ Countermeasures against snow and wind

In regions with snow and strong wind, the following problems may occur when the outdoor unit is not provided with a platform and snow-proof ducting:

- a) The outdoor fan may not run and damage to the unit may occur.
- b) There may be no air flow.
- c) The tubing may freeze and burst.
- d) The condenser pressure may drop because of strong wind, and the indoor unit may freeze.

3-4. Precautions for Installation in Heavy Snow Areas

- (1) The platform should be higher than the max. snow depth. (Fig. 1-10)
- (2) The 2 anchoring feet of the outdoor unit should be used for the platform, and the platform should be installed beneath the air intake side of outdoor unit.
- (3) The platform foundation must be firm and the unit must be secured with anchor bolts.
- (4) In case of installation on a roof subject to strong wind, countermeasures must be taken to prevent the unit from being blown over.

Air discharge Air discharge

Fig. 1-9

In regions with significant snowfall, the outdoor unit should be provided with a platform and snow-proof duct.

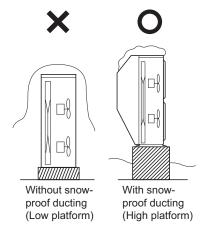


Fig. 1-10

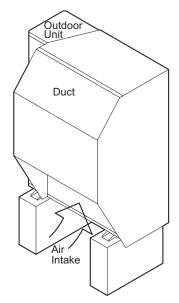
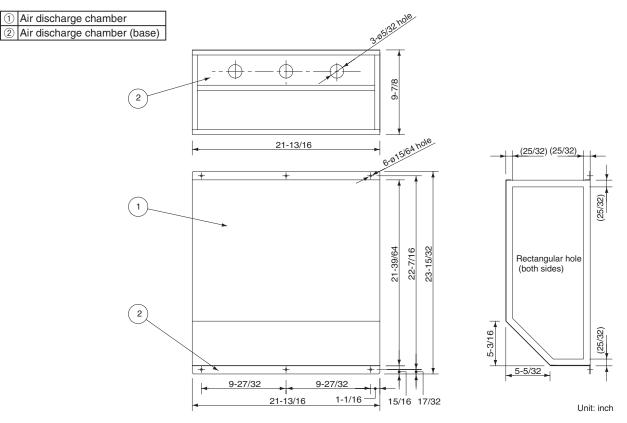


Fig. 1-11

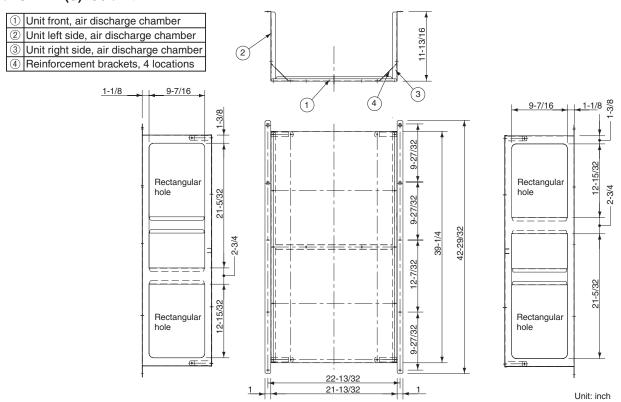
3-5. Dimensions of Wind Ducting

Reference diagram for air-discharge chamber (field supply) For U-26PE(S)1U6 / U-36PE(S)1U6 unit

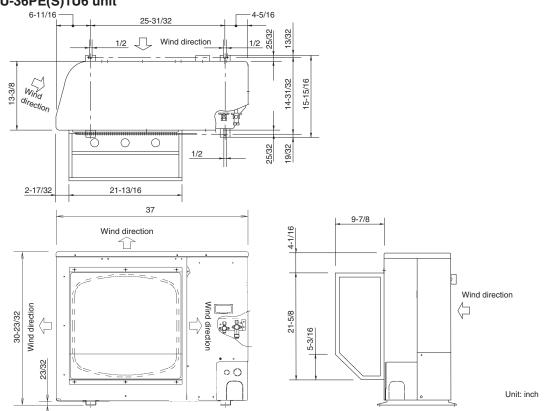


Note: In snowy regions, if there is concern that snow may enter the air discharge chamber, remove the base of the chamber (10 screws) before using.

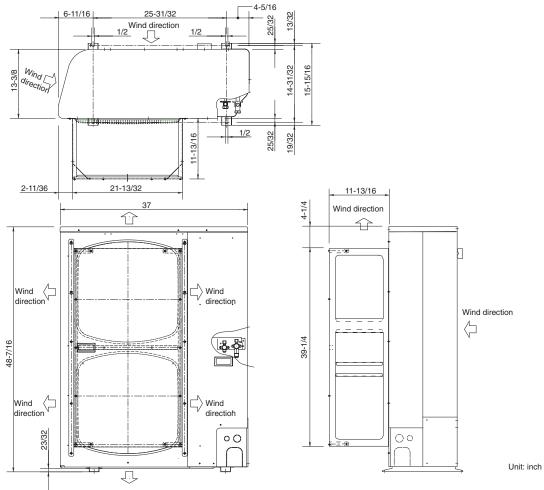
For U-42PE(S)1U6 unit



Dimensions of Outdoor Unit with air-discharge chamber (field supply) U-26PE(S)1U6 / U-36PE(S)1U6 unit



U-42PE(S)1U6 unit



Reference diagram for air-discharge chamber (field supply)

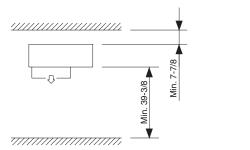
U-26PE(S)1U6 / U-36PE(S)1U6 / U-42PE(S)1U6

Required space around outdoor unit

If the air discharge chamber is used, the space shown below must be secured around the outdoor unit.

If the unit is used without the required space, a protective device may activate, preventing the unit from operating.

(1) Single-unit installation



Unit: inch

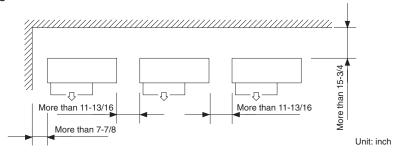


CAUTION

The top and both sides must remain open. If there are obstacles to the front and rear of the outdoor unit, the obstacle at either the front or rear must be no taller than the height of the outdoor unit.

(2) Multiple-unit installation

Installation in lateral rows





CAUTION

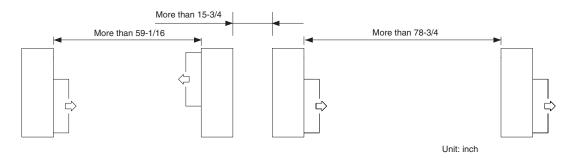
The front and top must remain open.

The obstacles must be no taller than the height of the outdoor unit.

• Installation in front-rear rows

Installation with intakes facing outlets

Installation with intakes facing intakes or outlets facing outlets





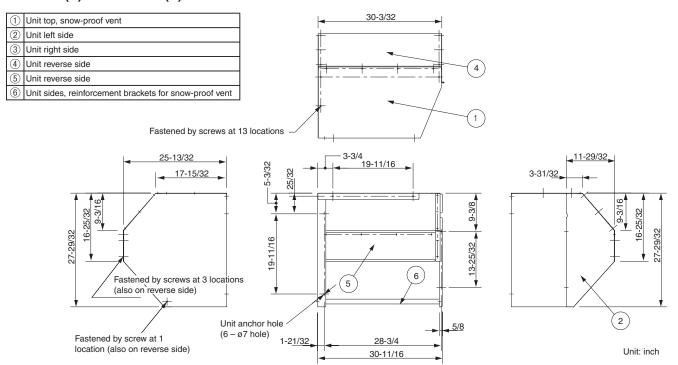
CAUTION

The front and both sides must remain open.

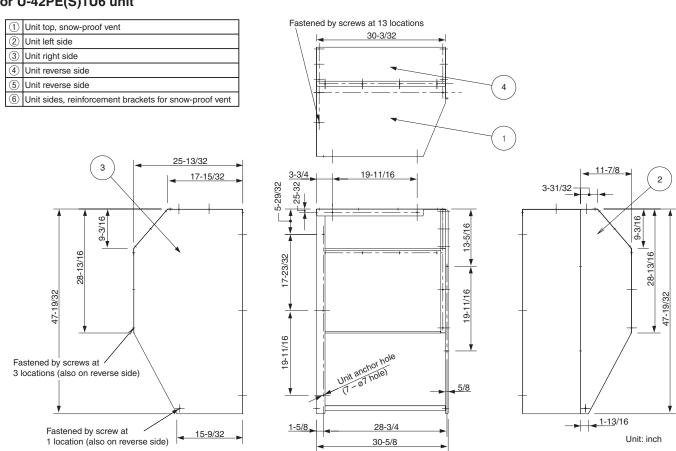
3-6. Dimensions of Snow Ducting

Reference diagram for snow-proof vents (field supply)

For U-26PE(S)1U6 / U-36PE(S)1U6 unit

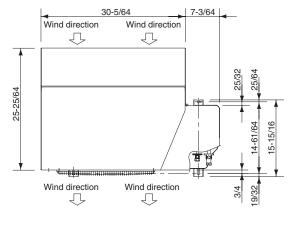


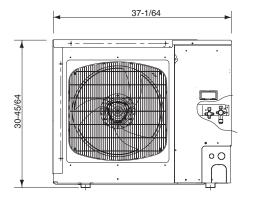
For U-42PE(S)1U6 unit

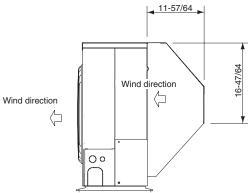


Dimensions of outdoor unit with snow-proof vents (field supply)

U-26PE(S)1U6 / U-36PE(S)1U6 unit

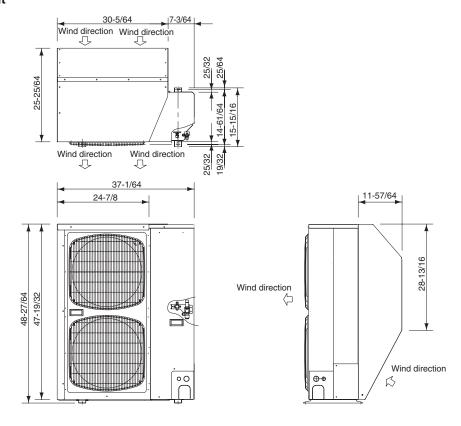






Unit: inch

U-42PE(S)1U6 unit



Unit: inch

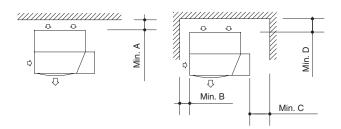
Space requirements for setting – (1)

U-26PE(S)1U6 / U-36PE(S)1U6 / U-42PE(S)1U6

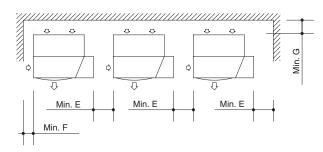
[Obstacle to the rear of unit]

• Top is open:

(1) Single-unit installation (2) Obstacles on both sides



(3) Multiple-unit installation (2 or more units)

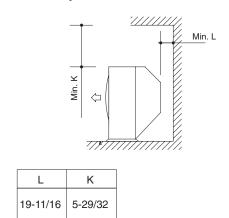


Α	5-29/32
В	5-29/32
С	11-13/16
D	7-7/8
E	11-13/16
F	5-29/32
G	7-7/8

Note:

In cases 2 and 3 the height of the obstacle must be no taller than the height of the outdoor unit.

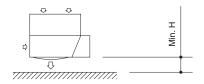
• Top is blocked by an obstacle:



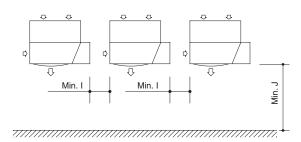
[Obstacle to the front of unit]

• Top is open:

(1) Single-unit installation

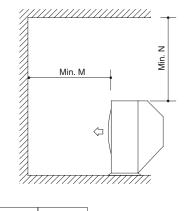


(2) Multiple-unit installation (2 or more units)



Н	I	J
19-11/16	11-13/16	39-3/8

Top is blocked by an obstacle:



M	N
39-3/8	39-3/8

Unit: inch

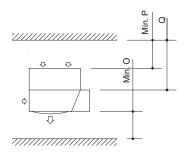
Reference diagram for snow-proof vents – 2

Space requirements for setting – (2)

U-26PE(S)1U6 / U-36PE(S)1U6 / U-42PE(S)1U6

[Obstacles to the front and rear of unit]

- The top and both sides must remain open. Either the obstacle to the front or the obstacle to the rear must be no taller than the height of the outdoor unit.
 - (1) Single-unit installation

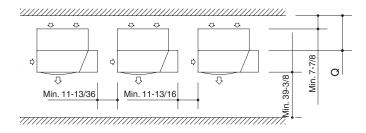


Dimension Q

If a snow protection duct is attached after the unit is installed, verify that dimension Q is 19-11/16 in. or more.

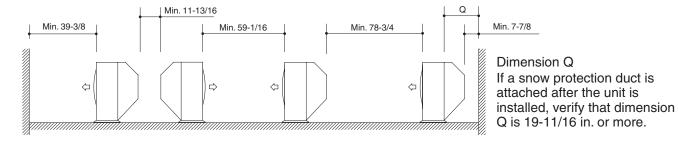
0	Р
39-3/8	5-29/32

(2) Obstacles on both sides



[Installation in front-rear rows]

• The top and both sides must remain open. Either the obstacle to the front or the obstacle to the rear must be no taller than the height of the outdoor unit.



Unit: inch

4. HOW TO INSTALL THE OUTDOOR UNIT

4-1. Installing the Outdoor Unit

- Use concrete or a similar material to create the base, and ensure good drainage.
- Ordinarily, ensure a base height of 2" or more. If a
 drain pipe is used, or for use in cold-weather regions,
 ensure a height of 6" or more at the feet on both sides
 of the unit. (In this case, leave clearance below the unit
 for the drain pipe, and to prevent freezing of drainage
 water in cold-weather regions.)
- Refer to the Fig. 1-12 for the anchor bolt dimensions.
- Be sure to anchor the feet with the anchor bolts (M10).
 In addition, use anchoring washers on the top side. (Use large square 32×32 SUS washers with diameters of 10.) (Field supply)

4-2. Drainage Work

Follow the procedure below to ensure adequate draining for the outdoor unit.

- For the drain port dimensions, refer to the figure at right.
- Ensure a base height of 6 in. or more at the feet on both sides of the unit.

4-3. Routing the Tubing and Wiring

- The tubing and wiring can be extended out in 4 directions: front, rear, right, and down.
- The service valves are housed inside the unit. To access them, remove the inspection panel. (To remove the inspection panel, remove the 3 screws, then slide the panel downward and pull it toward you.)
- (1) If the routing direction is through the front, rear, or right, use a nipper or similar tool to cut out the knockout holes for the inter-unit control wiring outlet, power wiring outlet, and tubing outlet from the appropriate covers A and B.
- (2) If the routing direction is down, use a nipper or similar tool to cut out the lower flange from cover A.



- Route the tubing so that it does not contact the compressor, panel, or other parts inside the unit. Increased noise will result if the tubing contacts these parts.
- When routing the tubing, use a tube bender to bend the tubes.

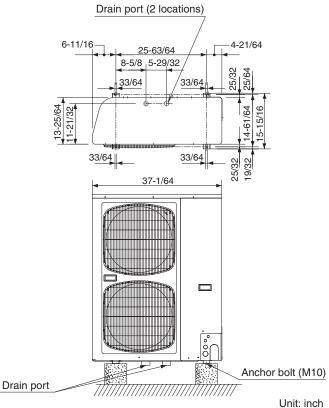


Fig. 1-12

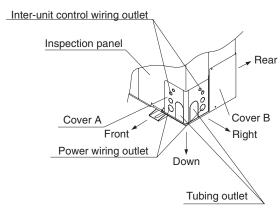


Fig. 1-13

4-4. HOW TO PROCESS TUBING

The liquid tubing side is connected by a flare nut, and the gas tubing side is connected by brazing.

1. Connecting the Refrigerant Tubing

Use of the Flaring Method

Many conventional split system air conditioners employ the flaring method to connect refrigerant tubes which run between indoor and outdoor units. In this method, the copper tubes are flared at each end and connected with flare nuts.

Flaring Procedure with a Flare Tool

- (1) Cut the copper tube to the required length with a tube cutter. It is recommended to cut approx. 12 20 in. longer than the tubing length you estimate.
- (2) Remove burrs at each end of the copper tubing with a tube reamer or file. This process is important and should be done carefully to make a good flare. Be sure to keep any contaminants (moisture, dirt, metal filings, etc.) from entering the tubing. (Figs. 1-14 and 1-15)

NOTE

When reaming, hold the tube end downward and be sure that no copper scraps fall into the tube. (Fig. 1-15)

- (3) Remove the flare nut from the unit and be sure to mount it on the copper tube.
- (4) Make a flare at the end of the copper tube with a flare tool. (Fig. 1-16)

NOTE

A good flare should have the following characteristics:

- inside surface is glossy and smooth
- edge is smooth
- tapered sides are of uniform length

Deburring

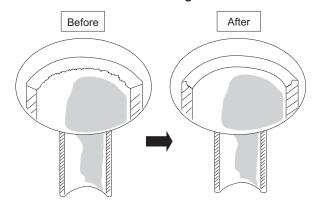


Fig. 1-14

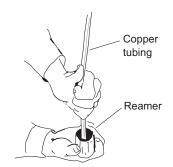


Fig. 1-15

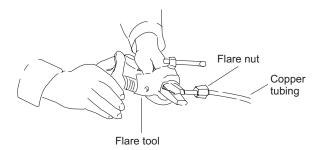


Fig. 1-16

Caution Before Connecting Tubes Tightly

- (1) Apply a sealing cap or water-proof tape to prevent dust or water from entering the tubes before they are used.
- (2) Be sure to apply refrigerant lubricant to the matching surfaces of the flare and union before connecting them together. This is effective for reducing gas leaks. (Fig. 1-17)
- (3) For proper connection, align the union tube and flare tube straight with each other, then screw on the flare nut lightly at first to obtain a smooth match. (Fig. 1-18)
- Adjust the shape of the liquid tube using a tube bender at the installation site and connect it to the liquid tubing side valve using a flare.

Cautions During Brazing

- Replace air inside the tube with nitrogen gas to prevent copper oxide film from forming during the brazing process. (Oxygen, carbon dioxide and Freon are not acceptable.)
- Do not allow the tubing to get too hot during brazing. The nitrogen gas inside the tubing may overheat, causing refrigerant system valves to become damaged. Therefore allow the tubing to cool when brazing.
- Use a reducing valve for the nitrogen cylinder.
- Do not use agents intended to prevent the formation of oxide film.
 These agents adversely affect the refrigerant and refrigerant oil, and may cause damage or malfunctions.

2. Connecting Tubing between Indoor and Outdoor Units

- (1) Tightly connect the indoor-side refrigerant tubing extended from the wall with the outdoor-side tubing.
- (2) To fasten the flare nuts, apply specified torque as shown at right.
- When removing the flare nuts from the tubing connections, or when tightening them after connecting the tubing, be sure to use 2 adjustable wrenches or spanners. (Fig. 1-19)
 If the flare nuts are over-tightened, the flare may be damaged, which could result in refrigerant leakage and cause injury or asphyxiation to room occupants.
- When removing or tightening the gas tube flare nut, use 2 adjustable wrenches together: one at the gas tube flare nut, and one at part A. (Fig. 1-20)
- For the flare nuts at tubing connections, be sure to use the flare nuts that were supplied with the unit, or else flare nuts for R410A (type 2). The refrigerant tubing that is used must be of the correct wall thickness as shown in the table at right.

1. Specifications

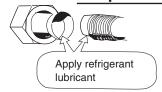


Fig. 1-17

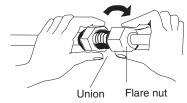


Fig. 1-18

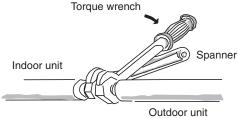


Fig. 1-19

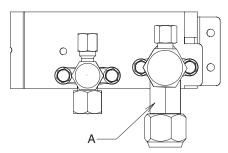


Fig. 1-20

Tube diameter	Tightening torque (approximate)	Tube thickness (in.)
ø1/4" (6.35 mm)	120 − 160 lbf · in. {140 − 180 kgf · cm}	t0.032
ø3/8" (9.52 mm)	300 − 360 lbf · in. {340 − 420 kgf · cm}	t0.032
ø1/2" (12.7 mm)	430 − 480 lbf · in. {490 − 550 kgf · cm}	t0.032
ø5/8" (15.88 mm)	590 – 710 lbf · in. {680 – 820 kgf · cm}	t0.04

Because the pressure is approximately 1.6 times higher than conventional refrigerant pressure, the use of ordinary flare nuts (type 1) or thin-walled tubes may result in tube rupture, injury, or asphyxiation caused by refrigerant leakage.

- In order to prevent damage to the flare caused by over-tightening of the flare nuts, use the table above as a guide when tightening.
- When tightening the flare nut on the liquid tube, use an adjustable wrench with a nominal handle length of 7-7/8 in.

- Do not use a spanner to tighten the valve stem caps.
 Doing so may damage the valves.
- Depending on the installation conditions, applying excessive torque may cause the nuts to crack.

Precautions for Packed Valve Operation

- If the packed valve is left for a long time with the valve stem cap removed, refrigerant will leak from the valve.
 Therefore, do not leave the valve stem cap removed.
- Use a torque wrench to securely tighten the valve stem cap.
- Valve stem cap tightening torque:

Charging port	$70 - 85 \text{ lbf} \cdot \text{in. } \{80 - 100 \text{ kgf} \cdot \text{cm}\}$
ø3/8" (Liquid side)	160 − 180 lbf · in. {190 − 210 kgf · cm}
ø5/8" (Gas side)	240 − 270 lbf · in. {280 − 320 kgf · cm}

3. Insulating the Refrigerant Tubing

Tubing Insulation

- Thermal insulation must be applied to all unit tubing, including the distribution joint (purchased separately).
 - * For gas tubing, the insulation material must be heat resistant to 248°F or above. For other tubing, it must be heat resistant to 176°F or above.

Insulation material thickness must be 13/32 in. or greater.



CAUTION

If the exterior of the outdoor unit valves has been finished with a square duct covering, make sure you allow sufficient space to access the valves and to allow the panels to be attached and removed.

Taping the flare nuts

Wind the white insulation tape around the flare nuts at the gas tube connections. Then cover up the tubing connections with the flare insulator, and fill the gap at the union with the supplied black insulation tape. Finally, fasten the insulator at both ends with the supplied vinyl clamps. (Fig. 1-23)

Insulation material

The material used for insulation must have good insulation characteristics, be easy to use, be age resistant, and must not easily absorb moisture.



After a tube has been insulated, never try to bend it into a narrow curve because it can cause the tube to break or crack.

1. Specifications

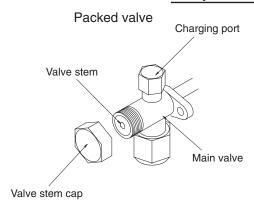


Fig. 1-21
2 tubes arranged together

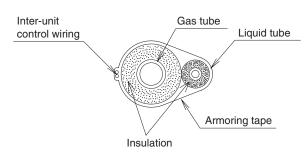


Fig. 1-22

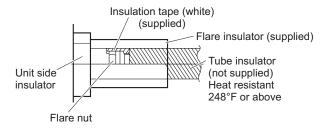


Fig. 1-23

Never grasp the drain or refrigerant connecting outlets when moving the unit.

1. Specifications

4. Taping the Tubes

- (1) At this time, the refrigerant tubes (and electrical wiring if local codes permit) should be taped together with armoring tape in 1 bundle. To prevent condensation from overflowing the drain pan, keep the drain hose separate from the refrigerant tubing.
- (2) Wrap the armoring tape from the bottom of the outdoor unit to the top of the tubing where it enters the wall. As you wrap the tubing, overlap half of each previous tape turn.
- (3) Clamp the tubing bundle to the wall, using 1 clamp approx. each meter (3 feet). (Fig. 1-24)

NOTE

Do not wind the armoring tape too tightly since this will decrease the heat insulation effect. Also ensure that the condensation drain hose splits away from the bundle and drips clear of the unit and the tubing.

5. Finishing the Installation

After finishing insulating and taping over the tubing, use sealing putty to seal off the hole in the wall to prevent rain and draft from entering. (Fig. 1-25)

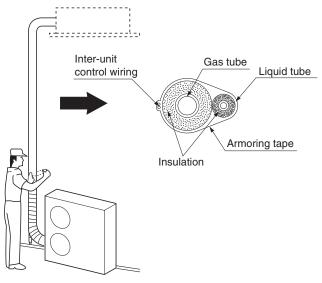


Fig. 1-24

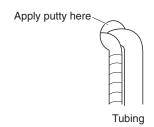


Fig. 1-25

4-5. LEAK TEST, EVACUATION AND ADDITIONAL REFRIGERANT CHARGE

- Perform an air-tightness test for this package A/C.
 Check that there is no leakage from any of the connections. Air and moisture in the refrigerant system may have undesirable effects as indicated below.
- pressure in the system rises
- operating current rises
- cooling (or heating) efficiency drops
- moisture in the refrigerant circuit may freeze and block capillary tubing
- water may lead to corrosion of parts in the refrigerant system

Therefore, the indoor unit and tubing between the indoor and outdoor unit must be leak tested and evacuated to remove any noncondensables and moisture from the system.

■ Air Purging with a Vacuum Pump (for Test Run) Preparation

Check that each tube (both liquid and gas tubes) between the indoor and outdoor units has been properly connected and all wiring for the test run has been completed. Remove the valve caps from both the gas and liquid service valves on the outdoor unit. Note that both liquid and gas tube service valves on the outdoor unit are kept closed at this stage.

• The refrigerant charge at the time of shipment is only guaranteed sufficient for a tubing length of up to 100 ft. The tubing may exceed this length, up to the maximum permitted length; however, an additional charge is necessary for the amount that the tubing exceeds 100 ft. (No additional refrigerating machine oil is needed.)

1. Leak Test

- (1) With the service valves on the outdoor unit closed, remove the 1/4 in. flare nut and its bonnet on the gas tube service valve. (Save for reuse.)
- (2) Attach a manifold valve (with pressure gauges) and dry nitrogen gas cylinder to this service port with charge hoses.



Use a manifold valve for air purging. If it is not available, use a stop valve for this purpose. The "Hi" knob of the manifold valve must always be kept closed.

Manifold gauge

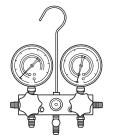


Fig. 1-26

Vacuum pump

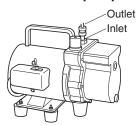


Fig. 1-27

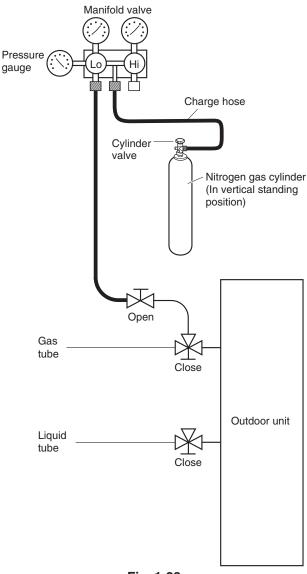


Fig. 1-28

(3) Pressurize the system up to 4.15 MPa {42 kgf/cm²G} with dry nitrogen gas and close the cylinder valve when the gauge reading reaches 4.15 MPa {42 kgf/cm²G}. Then, test for leaks with liquid soap.



CAUTION

To avoid nitrogen entering the refrigerant system in a liquid state, the top of the cylinder must be higher than the bottom when you pressurize the system. Usually, the cylinder is used in a vertical standing position.

- (4) Do a leak test of all joints of the tubing (both indoor and outdoor) and both gas and liquid service valves. Bubbles indicate a leak. Wipe off the soap with a clean cloth after the leak test.
- (5) After the system is found to be free of leaks, relieve the nitrogen pressure by loosening the charge hose connector at the nitrogen cylinder. When the system pressure is reduced to normal, disconnect the hose from the cylinder.

2. Evacuation

Be sure to use a vacuum pump that includes a function for prevention of back-flow, in order to prevent back-flow of pump oil into the unit tubing when the pump is stopped.

- Perform vacuuming of the indoor unit and tubing.
 Connect the vacuum pump to the gas tube valve and apply vacuum at a pressure of -101 kPa {-755 mmHg, 5 Torr} or below.
 Continue vacuum application for a minimum of 1 hour after the pressure reaches -101 kPa {-755 mmHg, 5 Torr}.
- (1) Attach the charge hose end described in the preceding steps to the vacuum pump to evacuate the tubing and indoor unit. Confirm that the "Lo" knob of the manifold valve is open. Then, run the vacuum pump.
- (2) When the desired vacuum is reached, close the "Lo" knob of the manifold valve and turn off the vacuum pump. Confirm that the gauge pressure is under –101 kPa { –755 mmHg, 5 Torr} after 4 to 5 minutes of vacuum pump operation.



CAUTION

Use a cylinder specifically designed for use with R410A.

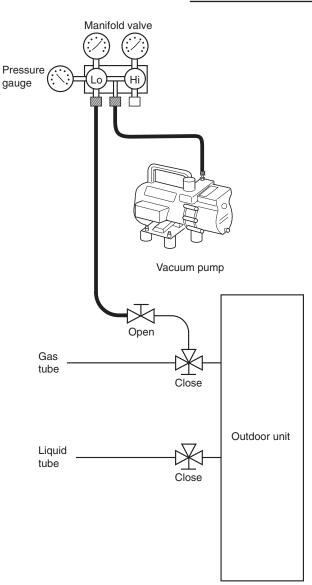


Fig. 1-29

3. Charging Additional Refrigerant

- Charging additional refrigerant (calculated from the liquid tube length as shown in Section "1-13. Installation Instructions, 1. Tubing Size, Table 1-4 Tubing Data for Models", Amount of additional refrigerant charge) using the liquid tube service valve. (Fig. 1-30)
- Use a balance to measure the refrigerant accurately.
- If the additional refrigerant charge amount cannot be charged at once, charge the remaining refrigerant in liquid form by using the gas tube service valve with the system in Cooling mode at the time of test run. (Fig. 1-31)
 - * If an additional refrigerant charge has been performed, list the refrigerant tubing length and amount of additional refrigerant charge on the product label (inside the panel).

4. Finishing the Job

- (1) With a hex wrench, turn the liquid tube service valve stem counter-clockwise to fully open the valve.
- (2) Turn the gas tube service valve stem counter-clockwise to fully open the valve.



CAUTION

To avoid gas from leaking when removing the charge hose, make sure the stem of the gas tube is turned all the way out ("BACK SEAT") position.

- (3) Loosen the charge hose connected to the gas tube service port (5/16".) slightly to release the pressure, then remove the hose.
- (4) Replace the 5/16". flare nut and its bonnet on the gas tube service port and fasten the flare nut securely with an adjustable wrench or box wrench. This process is very important to prevent gas from leaking from the system.
- (5) Replace the valve caps at both gas and liquid service valves and fasten them securely.

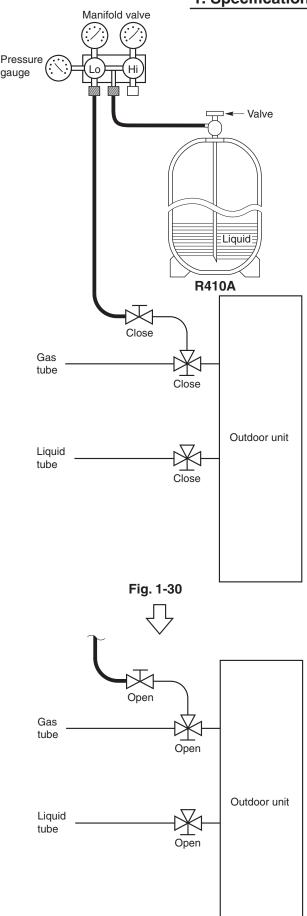


Fig. 1-31

■ Indoor Unit

5. SELECTING THE INSTALLATION SITE

5-1. Indoor Unit

AVOID:

- areas where leakage of flammable gas may be expected.
- places where large amounts of oil mist exist.
- direct sunlight.
- locations near inverter lamps which may affect the performance of the unit.
- locations near heat sources which may affect the performance of the unit.
- locations where external air may enter the room directly. This may cause "sweating" on the air discharge ports, causing them to spray or drip.
- 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 the receiver in the indoor unit is exposed to the inverter lamp light. Faulty operation of the unit occurs.
- locations where high-frequency emissions are generated.

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 3 ft. off the floor, in an area that is not in direct sunlight nor in the flow of cool air from the indoor unit.
- If the indoor unit is installed on the ceiling where the temperature or humidity inside is high (over 86°F(30°C) /RH: 70%), add insulating material to the surface of the unit to avoid dew condensation.

NOTE

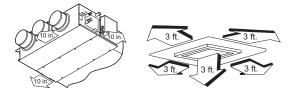
Air delivery will be degraded if the distance from the floor to the ceiling is greater than 10 ft.

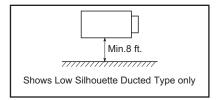
Ceiling (Type T1) Air discharge / Ceiling/ Min. 10 inch Front view Side view

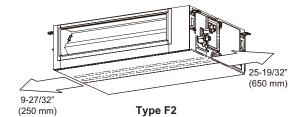
NOTE

The rear of the indoor unit can be installed flush against the wall.

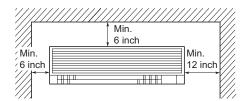
Low Silhouette Ducted (Type F1) 4-Way Cassette (Type U1)







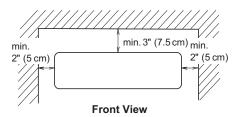
Wall Mounted (Type K1)



Wall Mounted (Type K2)

The air inlet and outlet of the indoor unit must be free of any obstructions to allow air to spread throughout the room.

1. The indoorunit must be within a maintenancesoace.



Unit: inch (mm)

6. HOW TO INSTALL THE INDOOR UNIT

■ Concealed Duct (Type F2)

6-1. Required Minimum Space for Installation and Service

- The minimum space for installation and service is shown in Fig. 1-32 and Table 1-6.
- Space between the unit and the ceiling should be more than 3/4" (19.05 mm). (Fig. 1-32)

Table 1-6

Table 1-6 Unit: inch (mm				
Type	26	36		
A (Length)	42-1/64 (1,067)	57-3/4 (1,467)		

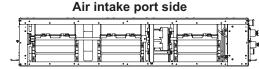
- It is recommended that space be provided (23-5/8" × 23-5/8") (600 × 600 mm) for checking and servicing the electrical
- The detailed dimensions of the indoor unit is shown in Fig. 1-33 and Table 1-7.

A (Suspension bolt pitch) Electrical component box Indoor unit Inspection 25-3/64 (989)access Min. 9-27/32 23-5/8 × 23-5/8 (250) (600×600) Refrigerant tubing Min. 25-19/32 (650) (Min. 19.05) Min. 3/4" Ceiling Fig. 1-32

Table 1-7

Туре		Α	В	С	D	E	F
26	inch	42-1/64	39-3/8	29-17/32 (Pitch 5-29/32 × 5)	53/64	31-3/16	16
26	mm	1,067	1,000	750 (Pitch 150 × 5)	21	792	10
26	inch	57-3/4	55-1/8	41-11/32 (Pitch 5-29/32 × 7)	2-51/64	46-59/64	20
36	mm	1,467	1,400	1,050 (Pitch 150 × 7)	71	1,192	20

Unit: inch (mm)



- a) Refrigerant tubing joint (liquid tube)
- b) Refrigerant tubing joint (gas tube)
- c) Upper drain port VP25 (O.D. 1-17/64" (O.D. 32 mm)) 27-7/8" (200 mm) flexible hose supplied
- d) Bottom drain port VP25 (O.D. 1-17/64" (O.D. 32 mm))
- e) Suspension lug $(4 15/32^{\circ} \times 1-3/16^{\circ} (4 12 \times 30 \text{ mm}))$
- f) Inter-unit control wiring port
- g) Fresh air intake port (ø5-29/32" (ø150 mm))
- h) Flange for flexible air outlet duct
- i) Electrical component box

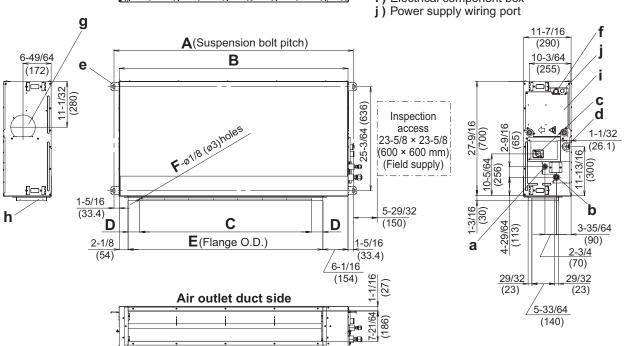


Fig. 1-33

1. Specifications

6-2. Suspending the Indoor Unit

Depending on the ceiling type:

- Insert suspension bolts (Fig. 1-34) or
- Use existing ceiling supports or construct a suitable support (Fig. 1-35).

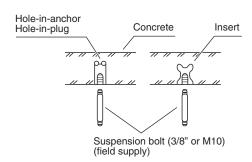


Fig. 1-34

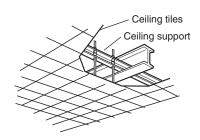


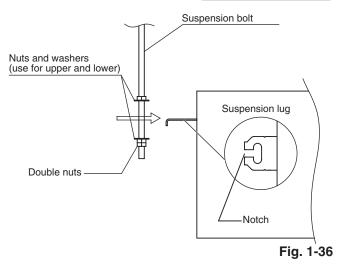
Fig. 1-35



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 hanging 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 as shown in Fig. 1-32 and Table 1-8.
 - 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 (Fig. 1-34). (Cut the ceiling material, if necessary.)
- (3) Thread the 3 hexagonal nuts and 2 washers (field supply) onto each of the 4 suspension bolts (Figs. 1-36 and 1-37). Use 1 nut and 1 washer for the upper part, and 2 nuts and 1 washer for the lower part, so that the unit will not fall off the suspension lugs.



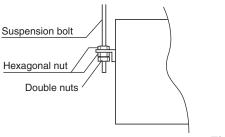


Fig. 1-37

• This shows an example of installation.

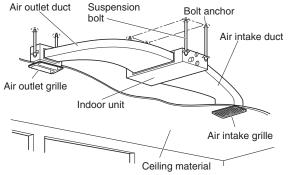


Fig. 1-38

6-3. Installing the Drain Pipe

Prepare standard hard PVC pipe (O.D. 1-17/64" (O.D. 32 mm)) for the drain and use the supplied hose band to prevent water leaks.

The PVC pipe must be purchased separately. The transparent drain part on the unit allows you to check drainage. (Fig. 1-39)

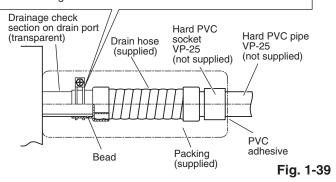


CAUTION

- Do not use adhesive tape at the drain connection port on the indoor unit.
- Insert the drain pipe until it contacts the socket, and then secure it tightly with the hose band.
- Do not use the supplied drain hose bent at a 90° angle.
 (The maximum permissible bend is 45°.)

 Tighten the hose clamps so their locking nuts face upward. (Fig. 1-39)

Align the wire of hose band without separating from the drain hose and tighten so that it does not contact the bead.



(2) After connecting the drain pipe securely, wrap the supplied packing and drain pipe insulator around the pipe, then secure it with the vinyl clamps. (Fig. 1-40)

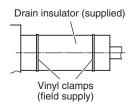


Fig. 1-40

NOTE

Make sure the drain pipe has a downward slant (1/100 or more) and that there are no water traps.



 Do not install an air bleeder as this may cause water to spray from the drain pipe outlet. (Fig. 1-41)

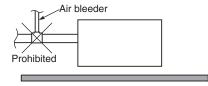


Fig. 1-41

 If it is necessary to increase the height of the drain pipe, the section directly after the connection port can be raised a maximum of 1.64 ft. (500 mm). Do not raise it any higher than 1.64 ft. (500 mm), as this could result in water leaks. (Fig. 1-42)

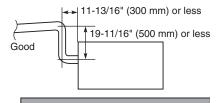


Fig. 1-42

 Do not install the pipe with an upward slant from the connection port. This will cause the drain water to flow backward and leak when the unit is not operating. (Fig. 1-43)

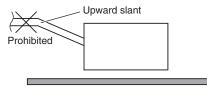


Fig. 1-43

 Do not apply force to the piping on the unit side when connecting the drain pipe. The pipe should not be allowed to hang unsupported from its connection to the unit. Fasten the pipe to a wall, frame, or other support as close to the unit as possible. (Fig. 1-44)

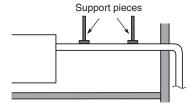
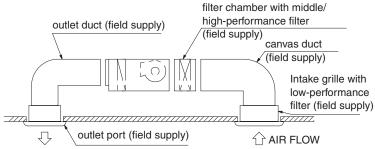
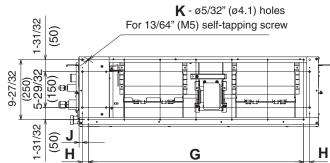


Fig. 1-44

6-4. Connecting Duct



Install the duct (field supply) to air intake port side.
 See the figure for the dimension of the installation hole.
 Use M5 self-tapping screws for installation.
 (Fig. 1-45)



NOTE

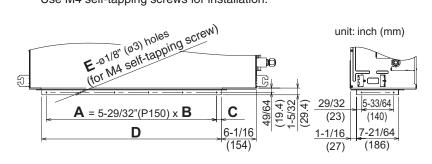
 To get clean air and to extend the service life of the air conditioner, an air filter must be installed in the air intake

For installation and cleaning the air filter, consult your dealer or service center.

	Type		G	Н	J	K
	inch 3		35-7/16 (Pitch 5-29/32 × 6)	63/64	33/64	18
26 mm		mm	900 (Pitch 150 × 6)	25	13	10
	36	inch	53-5/32 (Pitch 5-29/32 × 9)	0	33/64	24
	30	mm	1,350 (Pitch 150 × 9)	0	13	24

Fig. 1-45

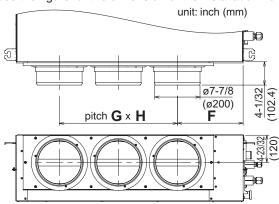
- (2) Install the duct (field supply) to air outlet port side.
 - Connection to the duct flange (supplied)
 See the figure for the dimension of the installation hole.
 Use M4 self-tapping screws for installation.



Type		Α	В	С	D	Е
26	inch	29-17/32	5	53/64	31-3/16	16
20	mm	750	5	21	792	10
26	inch	41-11/32	7	2-51/64	46-59/64	20
36	mm	1050	′	71	1192	20

• Connection to the duct flange (optional)

See the figure for the dimension of the installation hole.



Туре		F	G	Н
26	inch	11-7/16	10-15/64	2
20	mm	290	260	
36	inch	12-13/32	11-7/16	3
36	mm	315	290	3

■ 4-Way Cassette (Type U1)

6-5. Suspending the Indoor Unit

This unit uses a drain pump. Use a level gauge to check that the unit is level.

6-6. Preparation for Suspending

- (1) Fix the suspension bolts securely in the ceiling using the method shown in the diagrams (Figs. 1-46 and 1-47), by attaching them to the ceiling support structure, or by any other method that ensures that the unit will be securely and safely suspended.
- (2) Follow Fig. 1-47 and Table 1-8 to make the holes in the ceiling.

Table 1-8 Unit: inch (mm)

Type Length	Α	В
S-26PU1U6	32-9/32	22-9/32
(CZ-24KPU1U)	(820)	(566)
S-36PU1U6, S-42PU1U6	43-11/16	33-11/16
(CZ-36KPU1U)	(1,110)	(856)

(3) Determine the pitch of the suspension bolts using the supplied full-scale installation diagram. The diagram and table (Fig. 1-48 and Table 1-9) show the relationship between the positions of the suspension fitting, the unit, and the panel.

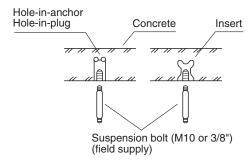
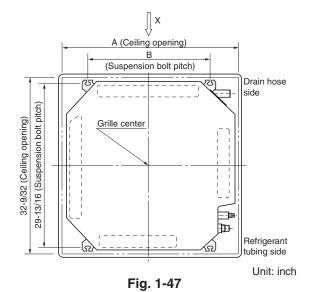


Fig. 1-46



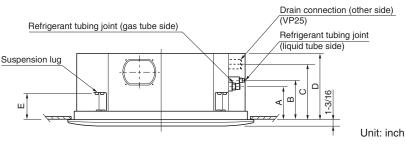


Fig. 1-48

Table 1-9 Unit: inch (mm)

Type Length	Α	В	С	D	E
S-26PU1U6	6-3/16	7-5/32	10-9/32	12-1/8	4-7/8
(CZ-24KPU1U)	(157)	(182)	(261)	(308)	(124)
S-36PU1U6, S-42PU1U6	6-3/16	7-5/32	11-15/32	13-1/16	4-7/8
(CZ-36KPU1U)	(157)	(182)	(291)	(338)	(124)

6-7. Placing the Unit Inside the Ceiling

- (1) When placing the unit inside the ceiling, determine the pitch of the suspension bolts using the supplied full-scale installation diagram. (Fig. 1-49) The size of the opening for the indoor unit can be confirmed by attaching the full-scale installation diagram beneath the unit. (Fig. 1-49) Tubing and wiring must be laid inside the ceiling when suspending the unit. If the ceiling is already constructed, lay the tubing and wiring into position for connection to the unit before placing the unit inside the ceiling.
- (2) The length of each suspension bolt must be appropriate for a distance between the bottom of the bolt and the bottom of the ceiling of 5/8" or more as shown in Fig. 1-49.
- (3) Thread the 2 hexagonal nuts (field supply) and washers onto the 4 suspension bolts as shown in Fig. 1-50.Use 2 sets of nuts and washers (upper and lower), so that the unit will not fall off the suspension lugs.
- (4) Remove the protective cardboard used to protect the fan parts during transport.
- (5) Adjust the distance between the unit and surface of the ceiling. (1-7/8") (Fig. 1-49)

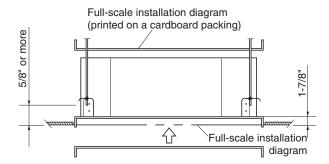


Fig. 1-49

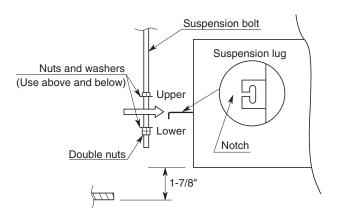


Fig. 1-50

6-8. Installing the Drain Piping

 Prepare standard hard PVC pipe for the drain and use the supplied drain hose and hose band to prevent water leaks.

The PVC pipe must be purchased separately. The transparent part allows you to check drainage. (Fig. 1-51)



CAUTION

Tighten the hose clamps so their locking nuts face upward. (Fig. 1-51)

(2) After checking the drainage, wrap the supplied packing and drain pipe insulator around the pipe. (Fig. 1-52)

NOTE

Ensure the drain pipe has a downward gradient (1/100 or more) and that there are no water traps.



CAUTION

- Do not install an air bleeder tube, as this may cause water to spray from the drain tube outlet. (Fig. 1-53)
- If it is necessary to increase the height of the drain pipe, the section directly after the connection port can be raised a maximum of 19-1/2".
 Do not raise it any higher than 19-1/2", as this could result in water leaks. (Fig. 1-54)
- Do not install the pipe with an upward gradient from the connection port. This will cause drain water to flow backwards and leak when the unit is stopped. (Fig. 1-55)
- Do not apply force to the piping on the unit side when connecting the drain pipe. The pipe should not be allowed to hang unsupported from its connection to the unit. Fasten the pipe to a wall, frame, or other support as close to the unit as possible. (Fig. 1-56)
- Provide insulation for any drain pipe that is run indoors.

Refer to "■ SUPPLEMENT ON DRAIN PIPING".

Transparent part for checking drainage (supplied) Packing Drain hose (supplied) Drain hose adapter (supplied) Packing Drain hose (supplied) Drain hose adapter (supplied)

Fig. 1-51

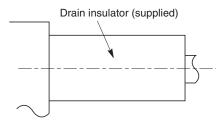


Fig. 1-52

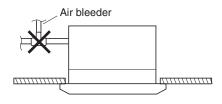


Fig. 1-53

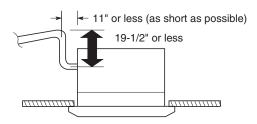


Fig. 1-54

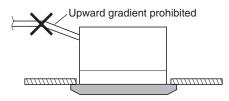


Fig. 1-55

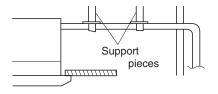


Fig. 1-56

6-9. Checking the Drainage

After wiring and piping are completed, use the following procedure to check that the water will drain smoothly. For this, prepare a bucket and wiping cloth to catch and wipe up spilled water.



WARNING

Do not supply power to the unit until the tubing and wiring to the outdoor unit are completed.

- (1) Take off the tube cover and through the opening, slowly pour about 0.3 gal of water into the drain pan to check drainage.
- (2) Do Test Run to check the drainage after completing installation. When performing Test Run, refer to the installation instructions attached to the outdoor unit.



CAUTION

Be careful since the fan will start turning when checking the drainage.

(3) After drain checking is finished, return the Operation Selector switch to the RUN position (ON position) and remount the tube cover.



WARNING

To mount the tube cover, use 5/16" (4 × 8 mm) tapping screws. Do not use long screws as they may puncture the drain pan and cause water leakage.

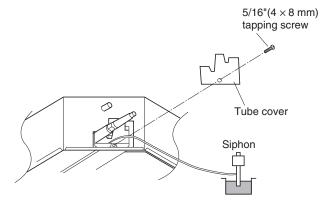


Fig. 1-57

■ Ceiling Panel



CAUTION

Never touch or attempt to move the air direction louver by hand or you may damage the unit. Instead, use the remote controller if you want to change the direction or air flow.

6-10. Before Installing the Ceiling Panel

- (1) Remove the air-intake grille and air filter from the ceiling panel. (Figs. 1-58 and 1-59)
 - (a) Remove the 2 screws on the latch of the air-intake grille. (Fig. 1-58)
 - (b) Press on the 2 latches of the air-intake grille with your thumbs in the direction of the arrow to open the grille. (Fig. 1-58)
 - (c) With the air-intake grille open about 45°, remove the safety cord (hook on the grille side). (Fig. 1-59)
 - (d) Pull the air-intake grille towards you to remove it from the ceiling panel.

(2) Pull down the two panel catches on the body of

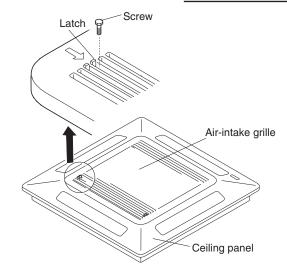
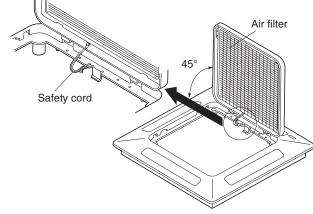


Fig. 1-58



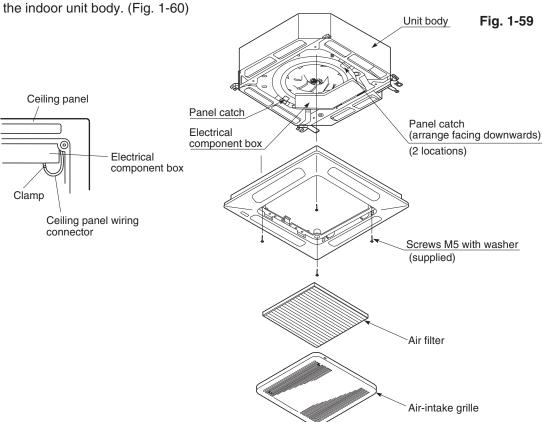


Fig. 1-60

6-11. Installing the Ceiling Panel

(1) Lift the ceiling panel and position it to align the panel hook with the panel catch of the indoor unit.

NOTE

The ceiling panel must be mounted in the correct direction. Note that the 2 catches of the panel differ in size. Confirm that the catches are correctly matched between the ceiling panel and the indoor unit body.

- (2) Next, check to see that the ceiling panel is properly aligned with the seamline of the ceiling. If it is not, remove the ceiling panel and slightly readjust the indoor unit body to the proper suspension point.
- (3) When the ceiling panel has been properly aligned, use the supplied 4 mounting screws (M5) with washers to permanently fasten the ceiling panel.
- (4) Install the wiring connector from the ceiling panel to the connector in the electrical component box of the indoor unit. After installing the connector, use the clamp on the body of the indoor unit to secure the wiring.
- (5) Install the air filter and air-intake grille by performing the steps in section 6-10 in reverse.

NOTE

Hook again the safety cord in its original position before closing the air-intake grille.

6-12. When Removing the Ceiling Panel for Servicing

When removing the ceiling panel for servicing, remove the air-intake grille and air filter, disconnect the wiring connector inside the electrical component box, and then remove the 4 mounting screws.

1. Specifications

Unit: inch

6-13. Duct for Fresh Air

- There is a duct connection part on side of the indoor unit. (Fig. 1-61)
- Air-intake plenum (including Duct connection box and flange) are attached to the indoor unit when used to take fresh outdoor air.

Air-intake plenum	Туре
CZ-26BCU1U	CZ-24KPU1U (S-26PU1U6)
CZ-42BCU1U	CZ-36KPU1U (S-36PU1U6, S-42PU1U6)

(1) Accessories

 Check that the following parts are in the box when unpacking.

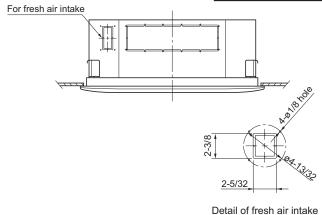


Fig. 1-61

NAME	Q' ty	REMARKS
Screw (M5xL4-7/8")	4	Air-intake plenum (for fastening)
Screw (M4xL4-1/2")	8	Duct connection flange/box (for fastening)
Duct connection box	1	(for fresh air)
Duct connection flange	1	(for connecting fresh air duct)

(2) Installation

Installation steps (a) to (d) are the same for both the CZ-26BCU1U and the CZ-42BCU1U. The drawing illustrates installation of air-intake plenum to the CZ-26BCU1U.

(a) Installing the air-intake plenum

- Set the air-intake plenum to the indoor unit taking care not to set to the incorrect direction.
- Fasten the air-intake plenum with the supplied screws. $(M5 \times L4-7/8", 4 pcs)$

(b) Installing the duct connection box

- Fasten the duct connection flange to the duct connection box with the accessory screws. (M4 × L1/2", 4 pcs)
- Fit the duct connection box into the rectangular hole of the air-intake plenum and fasten it to the side of the air-intake plenum with the accessory screws. $(M4 \times L1/2", 4 pcs)$

(c) Installing the indoor unit

 Install the indoor unit to the ceiling. (Install the indoor unit according to instructions enclosed with the outdoor unit.)



CAUTION

When installing in a preexisting location, install the indoor unit before installing the duct connection box.

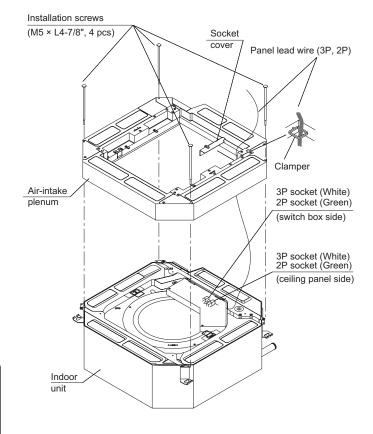


Fig. 1-62

1. Specifications

(d) Installing the ceiling panel

- Attach the ceiling panel to the air-intake plenum. Drawing the panel downwards sets the panel in position temporarily with the panel catch (at 2 locations).
- Remove the socket cover of the air-intake plenum and pass the 8P sockets through it.
 - (Fix the panel lead wire to air-intake plenum side clamper.)
- Connect the 3P socket (white) and 2P socket (green) to the other side of the 3P socket (white) and 2P socket (green) respectively.
- Reattach the socket cover.

Please fix the socket cover located on the switch box after closing the lid for the switch box.



CAUTION

Take adequate precautions when installing onto the ceiling.

The air-intake plenum is especially prone to rupture if struck on it's side.

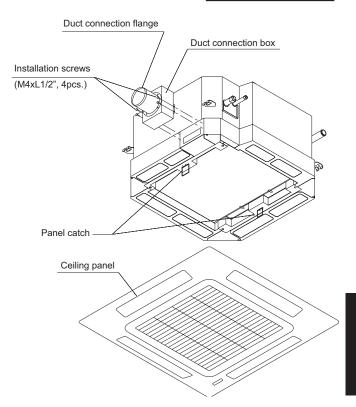


Fig. 1-63

■ Wall Mounted (Type K1)

6-14. Removing the Wall Fixture from the Unit

Remove the set screws and take off the rear panel. (Fig. 1-64)

NOTE

Tubing can be extended in 3 directions as shown in Fig. 1-65. Select the direction that provides the shortest run to the outside unit.

6-15. Selecting and Making a Hole

- (1) Remove the rear panel from the indoor unit and place it on the wall at the location selected. Make sure the unit is horizontal using a level gauge or tape measure to measure down from the ceiling.
- (2) Determine which side of the unit you should make the hole. (Fig. 1-66)
- (3) Before making a hole, check carefully that no studs or pipes are directly run behind the spot to be cut.



CAUTION

Also avoid areas where electrical wiring or conduits are located.

The above precautions are also applicable if tubing goes through the wall in any other location.

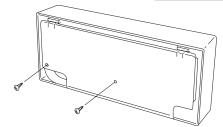
(4) Using a sabre saw, key hole saw or hole-cutting drill attachment, cut a hole in the wall. See Table 1-10 and Fig. 1-67.

Table 1-10

Hole Dia. (inch)
3-3/16"

- (5) Measure the thickness of the wall from the inside edge to the outside edge and cut PVC pipe at a slight angle 1/4" shorter than the thickness of the wall. (Fig. 1-68)
- (6) Place the plastic cover over the end of the pipe (for indoor side only) and insert in the wall. (Fig. 1-69)

1. Specifications



Set screws for transportation only

Fig. 1-64

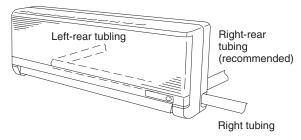


Fig. 1-65

In case of left-rear or right-rear tubing

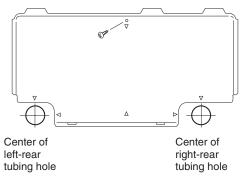


Fig. 1-66

NOTE

Hole should be made at a slight downward slant to the outdoor side.

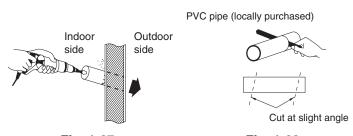


Fig. 1-67

Fig. 1-68

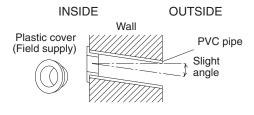


Fig. 1-69

1. Specifications

6-16. Installing the Rear Panel on the Wall

Be sure to confirm that the wall is strong enough to suspend the unit.

See either Item a) or b) below depending on the wall type.

a) If Wooden Wall

- (1) Attach the rear panel to the wall with the 10 screws provided. (Fig. 1-70)
 - If you are not able to line up the holes in the rear panel with the beam locations marked on the wall, use toggle bolts to go through the holes on the panel or drill 3/16" dia. holes in the panel over the stud locations and then mount the rear panel.
- (2) Double-check with a ruler or level gauge that the panel is level. This is important to install the unit properly. (Fig. 1-71)
- (3) Make sure the panel is flush against the wall. Any space between the wall and unit will cause noise and vibration.

b) If Block, Brick, Concrete or Similar Type Wall

Make 3/16" dia. holes in the wall. Insert rawl plugs for appropriate mounting screws. (Fig. 1-72)

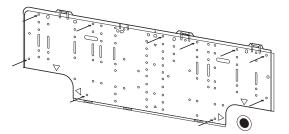


Fig. 1-70

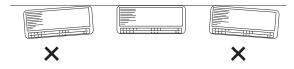


Fig. 1-71

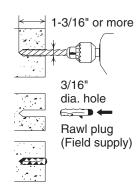


Fig. 1-72

6-17. Removing the Grille to Install the Indoor Unit

Basically, these models can be installed and wired without removing the grille. If access to any internal part is needed, follow the steps given below:

How to remove the grille

- (1) Set the 2 flaps in the horizontal position.
- (2) Unscrew the 3 screws. (Fig. 1-73a)
- (3) Remove the grille.
 - (a) Hold both corners of the air-intake grille, then pull out and up to open. (Fig. 1-73b)
 - (b) Use a flathead screwdriver to push up the 3 tabs to remove the grille. (Fig. 1-73b)
 - (c) Pull the lower part of the grille toward you to remove. (Fig. 1-73a)

How to replace the grille

- (1) Close the flaps.
- (2) Reinstall the grille into the lower part while aligning its tabs on the upper part. (Fig. 1-74a) Insert the tabs in the slots and push the lower part of the grille back into position.
- (3) Press at each of the 5 tabs to completely close the grille. Make sure that the grille and frame are firmly fitted together. (Fig. 1-74b)

6-18. Preparing the Indoor Side Tubing

Arrangement of tubing by directions

- (a) Right tubing
 The corner of the right frame needs to be cut by a hacksaw or the like. (Fig. 1-75)
- (b) Right-rear or left-rear tubing In this case, the corner of the frame needs not be cut.

To mount the indoor unit on the rear panel:

(a) Hang the 3 mounting slots of the unit on the upper tabs of the rear panel. (Fig. 1-76)

1. Specifications

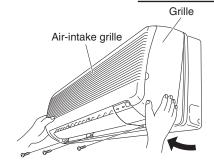


Fig. 1-73a

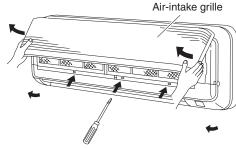


Fig. 1-73b



Fig. 1-74a



Fig. 1-74b

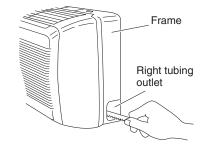


Fig. 1-75

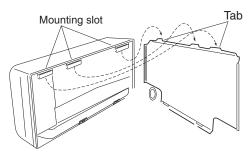


Fig. 1-76

6-19. Wiring Instructions

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. A power supply disconnect and 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) All wiring must be connected tightly.
- (5) Do not allow wiring to touch refrigerant tubing, compressor, or any moving parts of the fan.



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.

6-20. Wiring Instructions for Inter-Unit Connections

- Insert the inter-unit wiring (according to local electrical codes) into the through-the-wall PVC pipe. Run the wiring toward the indoor side allowing approx. 10 inches to extend from the wall face.
 (Fig. 1-77)
- (2) Route the inter-unit wiring from the back of the indoor unit and pull it toward the front for connection. (Figs. 1-78a and 1-78b)
- (3) Connect the inter-unit wiring to the corresponding terminals on the terminal plate (Figs. 1-78a and 1-78b) while referring to the wiring diagram.
- (4) Be sure to secure the wiring with the provided clamp.

How to remove the cover plate

To access the terminal plate inside the indoor unit, follow these steps.

- (1) Using a Phillips head screwdriver, remove the screw on the cover plate. (Figs. 1-78a and 1-78b)
- (2) Remove the cover plate.

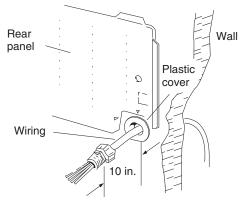


Fig. 1-77

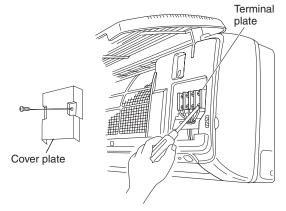


Fig. 1-78a

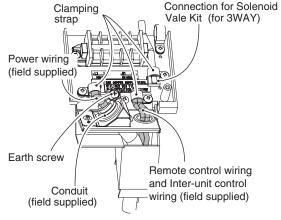


Fig. 1-78b

6-21. Shaping the Tubing

- (1) Shape the refrigerant tubing so that it can easily go into the hole. (Fig. 1-79)
- (2) Push the wiring, refrigerant tubing and drain hose through the hole in the wall. Adjust the indoor unit so it is securely seated on the wall fixture.
- (3) Carefully bend the tubing (if necessary) to run along the wall in the direction of the outdoor unit and then insulate to the end of the fittings. The drain hose should come straight down the wall to a point where water runoff will not stain the wall.
- (4) Connect the refrigerant tubing to the outdoor unit. (After performing a leak test on the connection, insulate it with insulating tape. (Fig. 1-80))
- (5) Assemble the refrigerant tubing, drain hose and inter-unit wiring as shown in Fig. 1-81.

6-22. Installing the Drain Hose

- (1) The drain hose should be slanted downward on the outdoor side. (Fig. 1-82)
- (2) Never form a trap in the course of the hose.
- (3) If the drain hose will run in the room, insulate* the hose so that chilled condensation will not damage furniture or floors. (Fig. 1-83)
 - * Foamed polyethylene or its equivalent is recommended.



WARNING

Do not supply power to the unit or operate it until all tubing and wiring to the outdoor unit are completed.

1. Specifications

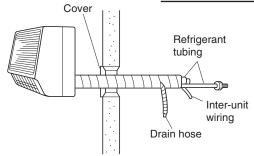


Fig. 1-79

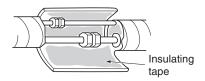


Fig. 1-80

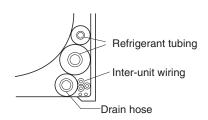


Fig. 1-81

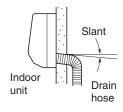


Fig. 1-82

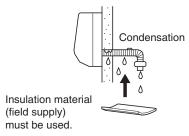


Fig. 1-83

■ Ceiling (Type T1)

6-23. Suspending the Indoor Unit

 Place the full-scale diagram (supplied) on the ceiling at the spot where you want to install the indoor unit. Use a pencil to mark the drill holes. (Fig. 1-84).

NOTE

Since the diagram is made of paper, it may shrink or stretch slightly because of high temperature or humidity. For this reason, before drilling the holes maintain the correct dimensions between the markings.

- (2) Drill holes at the 4 points indicated on the full-scale diagram.
- (3) Depending on the ceiling type:
 - (a) Insert suspension bolts as shown in Fig. 1-85.or
 - (b) Use existing ceiling supports or construct a suitable support as shown in Fig. 1-86.



WARNING

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

(4) Screw in the suspension bolts, allowing them to protrude from the ceiling as shown in Fig. 1-86. The distance of each exposed bolt must be of equal length within 2 inches. (Fig. 1-87)

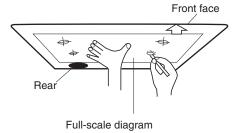


Fig. 1-84

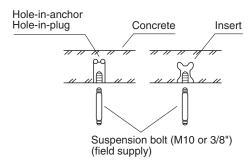


Fig. 1-85

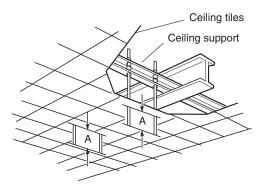


Fig. 1-86

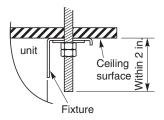


Fig. 1-87

1. Specifications

- (5) Before suspending the indoor unit, remove the 2 screws on the latch of the air-intake grilles, open the grilles, and remove them by pushing the claws of the hinges as shown in Fig. 1-88. Then remove both side panels sliding them along the unit toward the front after removing the two screws which fix them. (Fig. 1-89)
- (6) Preparation for suspending the indoor unit. The suspension method varies depending on whether the unit is next to the ceiling or not. (Figs. 1-90 and 1-91)

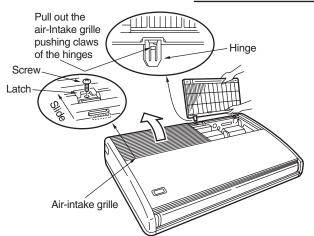


Fig. 1-88

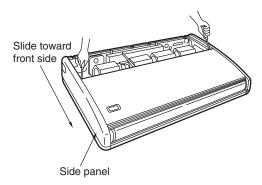


Fig. 1-89

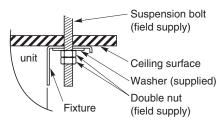


Fig. 1-90

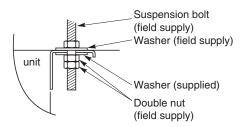


Fig. 1-91

- (7) Suspend the indoor unit as follows.
 - (a) Mount a washer and two hexagonal nuts on each suspension bolt as shown in Fig. 1-92.
 - (b) Lift the indoor unit with a lifting machine to the ceiling surface, and place it on the washers through the notches, to fix it in place. (Fig. 1-93)
 - (c) Tighten the two hexagonal nuts on each suspension bolt to suspend the indoor unit as shown in Fig. 1-94.

NOTE

A ceiling surface is not always level. Please confirm that the indoor unit is evenly suspended. For the installation to be correct, leave a clearance of about 3/8" between the ceiling panel and the ceiling surface and fill the gap with an appropriate insulation or filler material.

- (8) If the tubing and wiring are to go towards the rear of the unit, make holes in the wall. (Fig. 1-95)
- (9) Measure the thickness of the wall from the inside to the outside and cut PVC pipe at a slight angle to fit. Insert the PVC pipe in the wall. (Fig. 1-96)

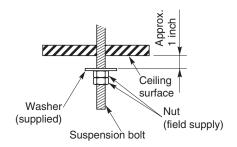


Fig. 1-92

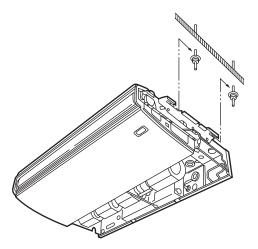


Fig. 1-93

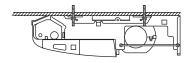


Fig. 1-94

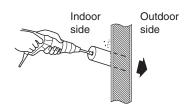


Fig. 1-95

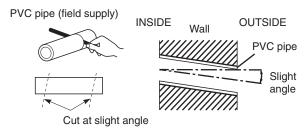


Fig. 1-96

6-24. Duct for Fresh Air

There is a duct connection port (knock-out hole) at the right-rear on the panel top of the indoor unit for drawing in fresh air. If it is necessary to draw in fresh air, remove the cover by knocking it out and connect the duct to the indoor unit through the connection port. (Fig. 1-97) If connection at the right-rear on the panel top is not appropriate, another duct connection port can be made by cutting an opening on the left side of the rear panel of the indoor unit as shown in Fig. 1-98.

6-25. Installing the Drain Piping

- Prepare a standard PVC pipe for the drain and connect it to the indoor unit drain pipe with the supplied hose clamps to prevent water leaks.
- Connect the drain piping so that it slopes downward from the unit to the outside. (Fig. 1-99)
- Never allow traps to occur in the course of the piping.
- Insulate any piping inside the room to prevent dripping.
- Use the supplied drain pipe to connect the drain pipe with the drain outlet of the indoor unit.
- After connecting the drain pipe securely, wrap the supplied drain pipe insulator around the pipe, seal the gap at the drain socket with the supplied black insulation tape, then secure it with clamps. (Fig. 1-100)
- After the drain piping, pour water into the drain pan to check that the water drains smoothly.



CAUTION

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

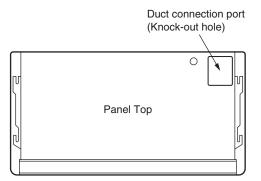
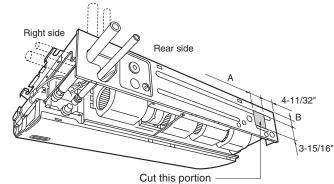
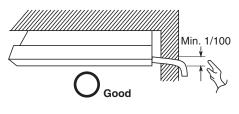


Fig. 1-97



	S-26PT1U6	S-36PT1U6, S-42PT1U6
Α	3-15/16"	7-3/32"
В	1-3/8"	1-31/32"

Fig. 1-98



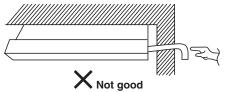


Fig. 1-99

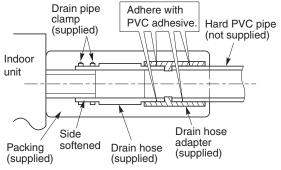
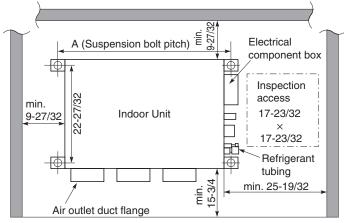


Fig. 1-100

■ Low Silhouette Ducted (Type F1)

6-26. Required Minimum Space for Installation and Service

- This air conditioner is usually installed above the ceiling so that the indoor unit and ducts are not visible. Only the air intake and air outlet ports are visible from below.
- The minimum space for installation and service is shown in Fig. 1-101 and Table 1-11.
- It is recommended that space be provided (17-23/32" × 17-23/32") for checking and servicing the electrical system.
- Fig. 1-102 and Table 1-12 show the detailed dimensions of the indoor unit.



Unit: inch

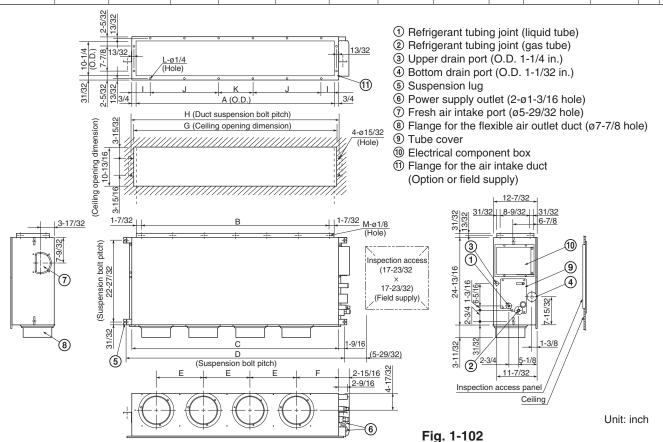
Fig. 1-101

Table 1-11 Unit: inch (mm)

Туре	26	36
A (Length)	42-17/32 (1,080)	61-13/32 (1,560)
Number of duct flanges	3	4

Table 1-12 Unit: inch (mm)

Dimension Type	Α	В	С	D	E	F	G	Н	ı	J	К		. of les M
S-26PF1U6	37-7/8	35-7/16 (7-3/32×5)	39-3/8	42-17/32	11-13/32	2-23/32	38-19/32	39-31/32	5-1/8	9-21/32 (9-21/32×1)	9-27/32	12	16
S-36PF1U6	56-25/32	54-11/32 (9-1/16×6)	58-9/32	61-13/32	13-3/16	12-7/32	57-15/32	58-27/32	5-1/8	19-9/32 (9-21/32×2)	9-7/16	16	18



1-141

6-27. Suspending the Indoor Unit

Depending on the ceiling type:

- Insert suspension bolts as shown in Fig. 1-103 or
- Use existing ceiling supports or construct a suitable support as shown in Fig. 1-104.



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 hanging 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 on the previous page. (Fig. 1-102) 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. 1-103. (Cut the ceiling material, if necessary.)
- (3) Thread the 2 hexagonal nuts and washers (field supply) onto the 4 suspension bolts as shown in Figs. 1-105 and 1-106. Use 2 sets of nuts and washers (upper and lower), so that the unit will not fall off the suspension lugs.

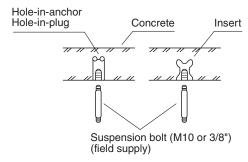


Fig. 1-103

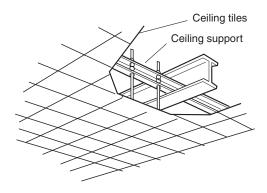


Fig. 1-04

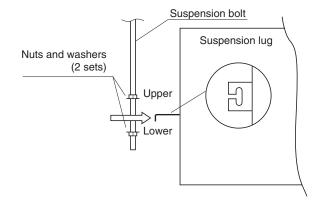


Fig. 1-105

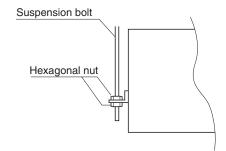
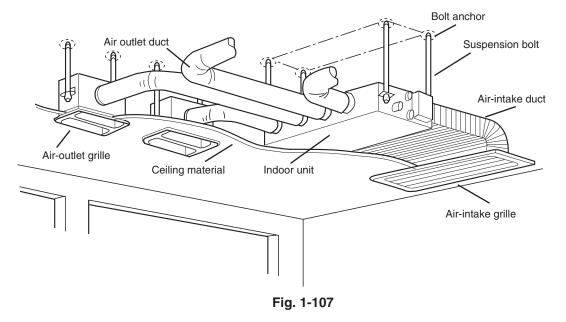


Fig. 1-106

• Fig. 1-107 shows an example of installation.



6-28. Installing the Drain Piping

(1) Prepare standard hard PVC pipe for the drain and use the supplied hose band to prevent water leaks. The PVC pipe must be purchased separately. When doing this, leave a gap between the drain socket of the unit and the PVC pipe to allow the drainage to be checked. The transparent drain pipe allows you to check drainage. (Fig. 1-108)



CAUTION

Tighten the hose clamps so their locking nuts face upward. (Fig. 1-108)

(2) After connecting the drain piping securely, wrap the supplied packing and drain pipe insulator around the pipe, then secure it with the supplied clamps. (Fig. 1-109)

NOTE

Make sure the drain pipe has a downward gradient (1/100 or more) and that there are no water traps.

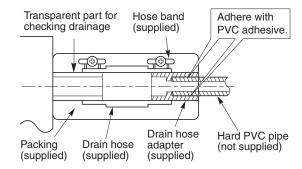


Fig. 1-108

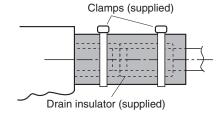


Fig. 1-109



CAUTION

- Do not install an air bleeder tube as this may cause water to spray from the drain pipe outlet. (Fig. 1-110)
- If it is necessary to increase the height of the drain pipe, the section directly after the connection port can be raised a maximum of 19-11/16".
 Do not raise it any higher than 19-11/16", as this could result in water leaks. (Fig. 1-111)
- Do not install the pipe with an upward gradient from the connection port. This will cause the drain water to flow backward and leak when the unit is not operating. (Fig. 1-112)
- Do not apply force to the piping on the unit side when connecting the drain pipe. The pipe should not be allowed to hang unsupported from its connection to the unit. Fasten the pipe to a wall, frame, or other support as close to the unit as possible. (Fig. 1-113)

Refer to "■ SUPPLEMENT ON DRAIN PIPING".

6-29. Checking the Drainage

After wiring and drain piping are completed, use the following procedure to check that the water will drain smoothly. For this, prepare a bucket and wiping cloth to catch and wipe up spilled water.

- (1) Connect power to the power terminal board (L1, L2 terminal) inside the electrical component box.
- (2) Remove the tube cover and through the opening, slowly pour about 0.3 gal. of water into the drain pan to check drainage.
- (3) Short the check pin (CN5 white) on the indoor control board and operate the drain pump. Check the water flow through the transparent drain port and see if there is any leakage.



CAUTION

Be careful since the fan will start when you short the pin on the indoor control board.

(4) When the check of drainage is complete, open the check pin (CN5 white) and remount the insulator and drain cap onto the drain inspection port.



CAUTION

To mount the tube cover, use 5/16" (4 × 8 mm) tapping screws.

Do not use long screws as they may puncture the drain pan and cause water leakage.

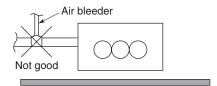


Fig. 1-110

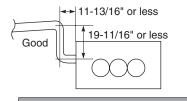


Fig. 1-111

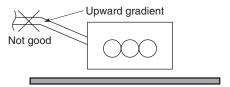


Fig. 1-112

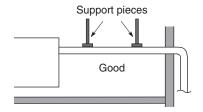


Fig. 1-113

1. Specifications

6-30. Increasing the Fan Speed

If external static pressure is too great (due to long extension of ducts, for example), the air flow volume may drop too low at each air outlet. This problem may be solved by increasing the fan speed using the following procedure:

- (1) Remove 4 screws on the electrical component box and remove the cover plate.
- (2) Disconnect the fan motor sockets in the box.
- (3) Take out the booster cable (sockets at both ends) clamped in the box.
- (4) Securely connect the booster cable sockets between the disconnected fan motor sockets in step 2 as shown in the Fig. 1-114.
- (5) Place the cable neatly in the box and reinstall the cover plate.

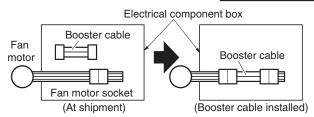


Fig. 1-114

■ How to read the diagram

The vertical axis is the external static pressure (Pa) while the horizontal axis represents the air flow (CFM).

The characteristic curves for "HT", "H", "M" and "L" fan speed control are shown.

The nameplate values are shown based on the "H" air flow. For the Type 26, the air flow is 636 CFM, while the external static pressure is 49 Pa at "H" position. If external static pressure is too great (due to long extension of duct, for example), the air flow volume may drop too low at each air outlet.

This problem may be solved by increasing the fan speed as explained above.

Refer to "■ SUPPLEMENT ON DRAIN PIPING".

Indoor Fan Performance Type 26 Type 36 200 8.0 (inAq) (Pa) 150 150 0.6 (Pa) External Static Pressure 0.5 0.5 External Static Pressure 100 0.4 100 0.4 0.3 0.3 ΗT 50 0.2 50 0.2 0.1 0.1 M 300 500 700 900 500 1000 Air Flow (CFM) Air Flow (CFM) HT: Using the booster cable NOTE

Fig. 1-115

H: At shipment

6-31. When Installing the Indoor Unit

Confirm that the indoor unit should be installed in a horizontal position.

Use the level gauge or vinyl tube and check every four corner of the

Use the level gauge or vinyl tube and check every four corner of the unit is in horizontal.

If the air outlet duct flange is positioned with downward gradient, there is in danger of water splash or drainage.

Also, dust may sometimes be contaminated inside the drain pan caused by the residual drain water.

Install the air outlet duct flange side in horizontal or upward and within the range of 3/8" in the upward direction.

Never install it with a downward gradient against horizontal.

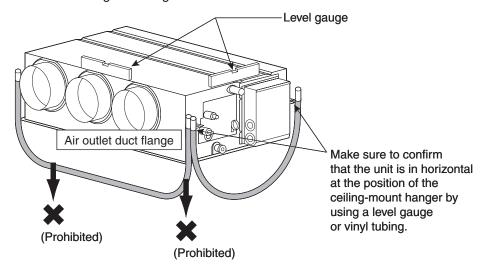


Fig. 1-116

6-32. Required Minimum Space for Installation and Service

If the ceiling tiles cannot be removed, provide the opening holes on the lower side of the indoor unit for removing the unit in order to maintain and clean the drain pan and heat exchanger or provide a minimum of 1.0 ft. or more space.

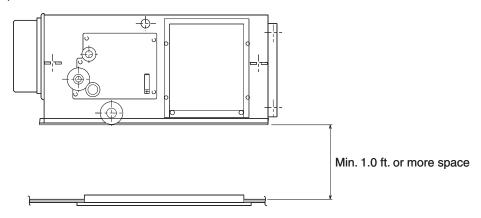


Fig. 1-117

■ SUPPLEMENT ON DRAIN PIPING

Checkpoint after installation

After installation of indoor and outdoor units, panels and electrical wiring, check the following items.

	Checkpoint	Symptom	Check	Remark
1	Make sure whether indoor and outdoor units are correctly installed.	Fall, vibration, noise		
2	Make sure whether gas leakage is tested.	No cooling, no heating		
3	Make sure whether insulation is completed. (Refrigerant piping and drain piping)	Water leakage		
4	Make sure whether drain water is running smoothly.	Water leakage		
5	Make sure whether the power voltage matches the nameplate.	Inoperative, burnout		
6	Make sure whether there is miswiring or incorrect connection.	Inoperative, burnout		
7	Make sure whether the ground construction is completed.	Ground leakage		
8	Make sure whether the wire gauge is followed by the recommended specifications.	Inoperative, burnout		
9	Make sure whether the air intake and air outlet of the indoor and outdoor units are sealed by obstacles.	No cooling, no heating		

■ 4-Way Cassette 36" × 36" (Type U2)

6-33. Selecting the Installation Site

Indoor Unit

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.

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 manual packed with the outdoor unit.
- allow room for mounting the remote controller about 3.3 ft. (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.
- if the indoor unit is installed on the ceiling where the temperature or humidity inside is high (over 86°F(30°C)/RH: 70%), add insulating material to the surface of the unit to avoid dew condensation.
- keep the fire alarm and the air outlet at least 5 ft. (1.5 m) away from the unit.

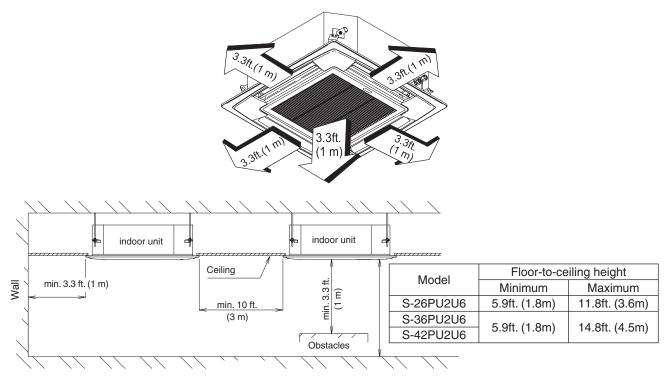


Fig. 1-118

NOTE

If the floor-to-ceiling height exceeds 9.8ft. (3m), the wind speed distribution becomes poor.

When changing the settings, refer to "6-43. Others".

6-34. Preparation for Suspending

This unit uses a drain pump. Use a carpenter's level to check that the unit is level.

6-35. Suspending the Indoor Unit

- (1) Fix the suspension bolts securely in the ceiling using the method shown in the diagrams (Figs. 1-119 and 1-120), by attaching them to the ceiling support structure, or by any other method that ensures that the unit will be securely and safely suspended.
- (2) Follow Fig. 1-120 and Table 1-13 to make the holes in the ceiling.

Table 1-13

Туре		Α	В	С	D
26	inch	30-15/16	29-21/64	33-55/64 to 35-53/64	33-55/64 to 35-53/64
26	mm	786	745	860 to 910	860 to 910
26 40	inch	30-15/16	29-21/64	33-55/64 to 35-53/64	33-55/64 to 35-53/64
36, 42	mm	786	745	860 to 910	860 to 910

Note: For DC Fan Motor Tap Setting procedure for 4-Way Cassette 36" × 36", see page 1-157.

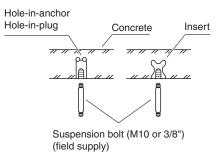


Fig. 1-119

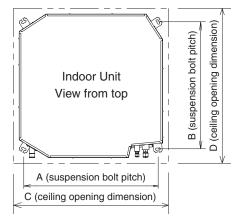


Fig. 1-120

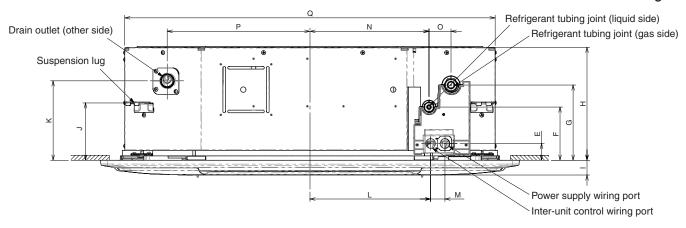


Fig. 1-121

Table 1-14

Ту	ре	E	F	G	Н	I	J	K	L	М	N	0	Р	Q
06	inch	1-1/2	4-49/64	6-47/64	10-5/64	1-5/16	5-1/8	7-3/32	10-25/32	1-9/32	10-5/8	1-31/32	12-3/4	33-5/64
26	mm	38	121	171	256	33.5	130	180	274	32.5	270	50	323.8	840
36, 42	inch	1-1/2	4-49/64	6-47/64	12-9/16	1-5/16	5-1/8	7-3/32	10-25/32	1-9/32	10-5/8	1-31/32	12-3/4	33-5/64
30, 42	mm	38	121	171	319	33.5	130	180	274	32.5	270	50	323.8	840

6-36. Placing the Unit Inside the Ceiling

This unit is equipped with the drain pump. Check a tape measure or carpenter's level.

Before installing the ceiling panel, complete the work of drain pipe and refrigerant pipe installation.

- (1) When placing the unit inside the ceiling, determine the pitch of the suspension bolts using the supplied full-scale installation diagram. (Fig. 1-122)

 Tubing and wiring must be laid inside the ceiling when suspending the unit. If the ceiling is already constructed, lay the tubing and wiring into position for connection to the unit before placing the unit inside the ceiling.
- (2) The length of suspension bolts must be appropriate for a distance between the bottom of the bolt and the bottom of the unit of more than 45/64" (18 mm) as shown in Fig. 1-122.
- (3) Thread the 3 hexagonal nuts and 2 washers (field supply) onto each of the 4 suspension bolts as shown in Fig. 1-123. Use 1 nut and 1 washer for the upper side, and 2 nuts and 1 washer for the lower side, so that the unit will not fall off the suspension lugs.
- (4) Adjust so that the distance between the unit and the ceiling bottom is 15/32" (12 mm) ~ 43/64" (17 mm). Tighten the nuts on the upper side and lower side of the suspension lug.
- (5) Remove the protective polyethylene used to protect the fan parts during transport.
- (6) Check with a tape measure or carpenter's level.

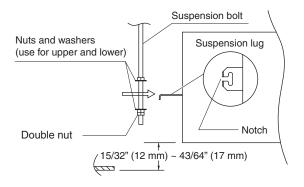


Fig. 1-123

Over 45/64" (18 mm) 43/64" (17 mm) 15/32" (12 mm) Ceiling Air conditioner Full-scale installation diagram Screw for attaching paper (4 points) Open the ceiling as large as this paper outline Over 45/64" (18 mm) Air conditioner Ceiling Full-scale installation diagram Full-scale installation diagram

Fig. 1-122

6-37. How to Process Tubing

Refer to the section "4-4. HOW TO PROCESS TUBING" on page 1-112.

6-38. Installing the Drain Pipe

1. Before Performing the Installation Drain Piping

(1) Limitations of Raising the Drain Pipe Connection



 The drain pipe can be raised to a maximum height of 2.79 ft. (850 mm) from the bottom surface of the ceiling.
 Do not attempt to raise it higher than 2.79 ft. (850 mm).
 Doing so will result in water leakage. (Fig. 1-124)

(2) Limitations of Drain Pipe Connection

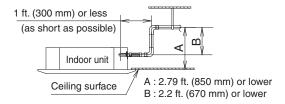


- Do not install the drain pipe with an upward gradient from the drain port connection. This will cause the drain water to flow backward and leak when the unit is not operating. (Fig. 1-125)
- Do not install an air bleeder as this may cause water to spray from the drain pipe outlet. (Fig. 1-125)
- Do not provide U-trap or bell-shaped trap in the middle of the drain pipe. Doing so will cause abnormal sound. (Fig. 1-125)
- Make sure the drain pipe has a downward gradient (1/100 or more; downward from drain port connection).
 (Fig. 1-126)
- (3) Limitations of Drain Hose Connection



CAUTION

- Do not bend the supplied drain hose 90° or more.
 Bend it less than 45°. (Fig. 1-127)
- Do not make a trap in the middle of the supplied drain hose.
 Doing so will cause abnormal sound. (Fig. 1-128)



* Length of supplied drain pipe = 9-27/32" (250 mm)

Fig. 1-124

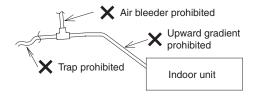


Fig. 1-125

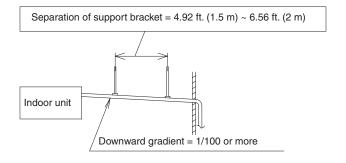


Fig. 1-126

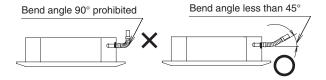


Fig. 1-127

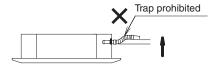


Fig. 1-128

2. Installing the Drain Hose



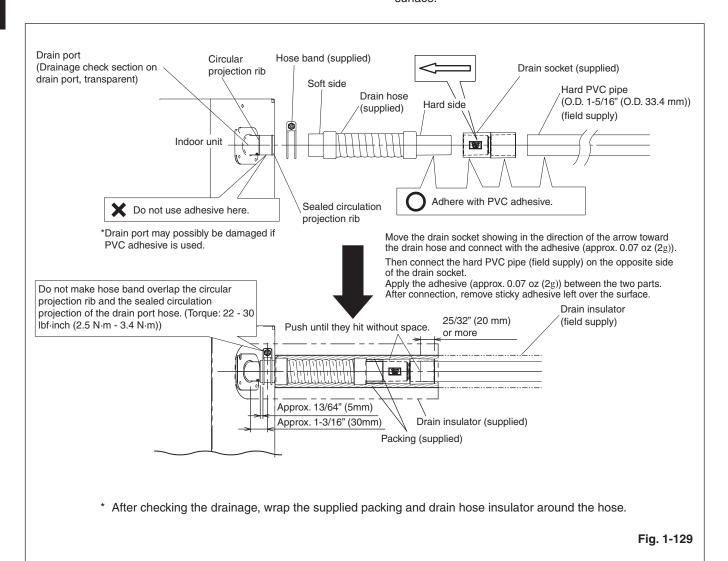
- Do not apply force to the drain port when connecting the drain hose. Install and fix it near the indoor unit as close as possible.
- Do not use adhesive when connecting the drain port pipe and the drain hose.
- (1) How to Install the Drain Hose

projection rib of the drain port pipe.

- First insert the supplied hose band into the drain port pipe.
 Then make sure the head of the screw is facing toward a technical engineer when placing the screw of the hose band at an upward angle.
- 2) Insert the soft PVC socket of the supplied drain hose to the drain port pipe. Do not use adhesive when connecting the drain hose to the drain port pipe. Insert it until the tip of the drain hose contacts the circular

- 3) Move the hose band so that the center position of the hose band can be placed approx. 1-3/16" (30 mm) away from the external plate of the indoor unit. (Fig. 1-129)
- 4) Screw the drain hose tightly facing the screw of the hose band upward. (Torque: 22 - 30 lbf·inch (2.5 N·m - 3.4 N·m)) (If the screw is tightened beneath the drain hose, the troubles will be generated.) Pay attention not to make hose band overlap the circular projection rib and the sealed circulation projection of the drain port hose.
- Move the drain socket showing in the direction of the arrow toward the drain hose and connect with the adhesive (approx. 0.07 oz (2g)).
- 6) Then connect the hard PVC pipe (field supply) on the opposite side of the drain socket. Apply the adhesive (approx. 0.07 oz (2g)) between the two parts.

After connection, remove sticky adhesive left over the surface.



6-39. Checking the Drainage

Be careful because the fan will start when you short the pin on the indoor control board.

After wiring (refer to "1-12. ELECTRICAL WIRING".) and drain piping are completed, use the following procedure to check that the water will drain smoothly. For this, prepare a bucket and wiping cloth to catch and wipe up spilled water.

- (1) Connect power to the power terminal board (L1, L2 terminals) inside the electrical component box.
- (2) Slowly pour about 0.3 gal (1,200 cc) of water into the drain pan to check drainage. (Fig. 1-130)
- (3) Short the check pin (CHK) on the indoor control board and operate the drain pump. Check the water flow through the transparent drain pipe and see if there is any leakage.
- (4) When the check of drainage is complete, open the check pin (CHK) and remount the tube cover.
- (5) Checkpoint after installation

After installation of indoor and outdoor units, panels and electrical wiring, check the following items.

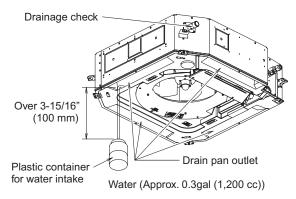
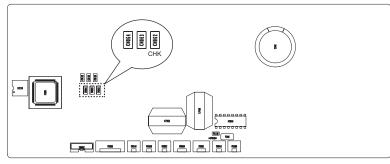


Fig. 1-130



Indoor Unit control PC board



Be careful because the fan will start when you short the pin on the indoor control board.

■ Checkpoint

	Checkpoint	Symptom	Check	Remark
1	Make sure whether indoor and outdoor units are correctly installed.	Fall, vibration, noise		
2	Make sure whether gas leakage is tested.	No cooling, no heating		
3	Make sure whether insulation is completed. (Refrigerant piping and drain piping)	Water leakage		
4	Make sure whether drain water is running smoothly.	Water leakage		
5	Make sure whether the power voltage matches the nameplate.	Inoperative, burnout		
6	Make sure whether there is miswiring or incorrect connection.	Inoperative, burnout		
7	Make sure whether the ground construction is completed.	Ground leakage		
8	Make sure whether the wire gauge is followed by the recommended specifications.	Inoperative, burnout		
9	Make sure whether the air intake and air outlet of the indoor and outdoor units are sealed by obstacles.	No cooling, no heating		

6-40. General Precautions on Wiring

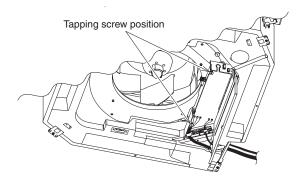
(1) Before wiring, confirm the rated voltage of the unit as shown on its nameplate, then carry out the wiring closely following the wiring diagram.



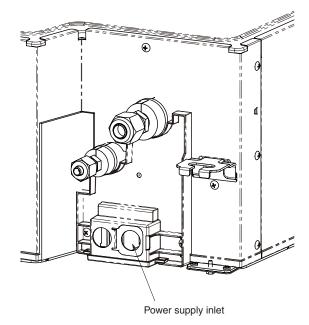
- (2) This equipment is strongly recommended to be installed with Earth Leakage Circuit Breaker (ELCB) or Residual Current Device (RCD). Otherwise, it may cause electrical shock and fire in case of equipment breakdown or insulation breakdown. Earth Leakage Circuit Breaker (ELCB) must be incorporated in the fixed wiring in accordance with the wiring regulations. The Earth Leakage Circuit Breaker (ELCB) must be an approved 15 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 single side.
- (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.

6-41. Important Note for Wiring 4-Way Cassette 36" x 36"

- (1) The power supply inlet is located at the lower area of the refrigerant tubing side of the unit. The electrical component box is located at the air intake of the bottom of the unit.
- (2) Before installing the ceiling panel, be sure to carry out the wiring connection.
- (3) Remove the lid located on the bottom of the indoor unit attaching the electrical component box by unscrewing the Phillips head tapping screws (x2).



- (4) Lead the wires from the power supply inlet to the unit. Be sure to lead the wires through the power supply inlet. Make sure that no wire is caught between the indoor unit and ceiling panel. Otherwise, the unit may cause a fire.
- (5) Connect the wires into the terminals through the power supply inlet for the electrical component box. Fix the wires with a clamping clip.
- (6) Reinstall the lid of the electrical component box in its original position with paying attention not to have the wires caught in the lid.



6-42. How to Install the Ceiling Panel

- (1) Removing the air-intake grille
 - Remove the 2 screws on the latch of the air-intake grille. (Fig. 1-131) (Reattach the air-intake grille after installation of the ceiling panel.)
 - 2) Slide the air-intake grille catches in the direction shown by the arrows (1) to open the grille. (Fig. 1-131)

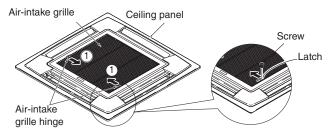


Fig. 1-131

3) With the air-intake grille opened, remove the grille hinge from the ceiling panel by sliding it in the direction shown by the arrow (2). (Fig. 1-132) (Reattach the air-intake grille after installation of the ceiling panel.)

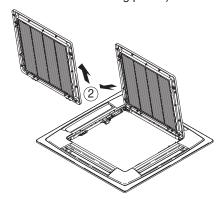
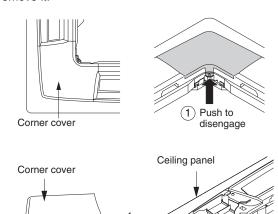


Fig. 1-132

(2) Removing the corner cover Slide the corner cover in the direction of the arrow ① and remove it.



2 Slide

Strap

Fig. 1-133

1. Specifications

(3) Installing the ceiling panel

The power must be turned ON in order to change the flap angle. (Do not attempt to move the flap by hand. Doing so may damage the flap.)

- Hang the temporary latches on the inside of the ceiling panel to the receptacle on the unit to temporarily attach the ceiling panel in place. (Fig. 1-134)
- The ceiling panel must be installed in the correct direction relative to the unit. Align the REF. PIPE and DRAIN marks on the ceiling panel corner with the correct positions on the unit.
- When removing the ceiling panel, push the temporary latches outward while holding the ceiling panel. (Fig. 1-134)

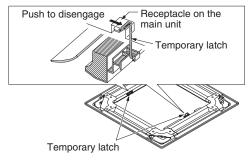


Fig. 1-134

- 2) Align the panel installation holes and the unit screw holes.
- 3) Tighten the supplied washer head screws at the 4 panel installation locations so that the panel is attached tightly to the unit. (Fig. 1-135)

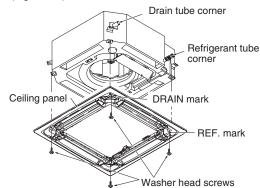


Fig. 1-135

- 4) Check that the panel is attached tightly to the ceiling.
- At this time, make sure that there are no gaps between the unit and the ceiling panel, or between the ceiling panel and the ceiling surface. (Fig. 1-136)

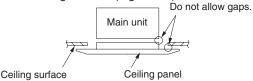
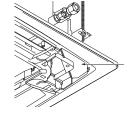


Fig. 1-136

 If there is a gap between the panel and the ceiling, leave the ceiling panel attached and make fine adjustments to the installation height of the unit to eliminate the gap with the ceiling. (Fig. 1-137)

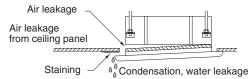


Make fine adjustments by a wrench or other tool to the installation height of the unit to eliminate the gap with the ceiling through the hole of the corner cover.

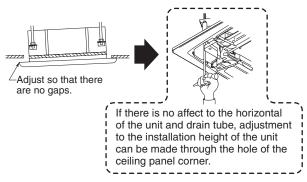
Fig. 1-137



 If the screws are not sufficiently tightened, trouble such as that shown in the figure below may occur.
 Be sure to tighten the screws securely.



 If a gap remains between the ceiling surface and the ceiling panel even after the screws are tightened, adjust the height of the unit again.



(4) Wiring the Ceiling Panel

- Open the cover of the electrical component box for control PCB.
- 2) Connect the 22P connector (white) from the ceiling panel to the connector on the control PCB in the unit electrical component box. In this case, expose the cutout section of the tube for the wiring protection to the outside from the electrical component box and fix it with the clamper attached to the electrical component box.
- If the connectors are not connected, the Auto Flap will not operate. Be sure to connect them securely. (If not connected completely, "09" will be displayed on the remote controller.)
- Check that the wiring connector is not caught between the electrical component box and the cover.
- Check that the wiring connector is not caught between the unit and the ceiling panel.

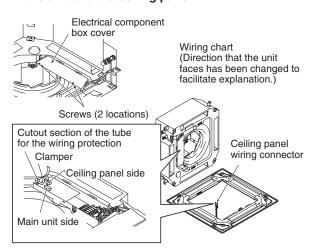
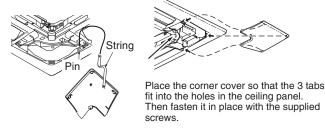


Fig. 1-138

(5) How to Attach the Corner & Air-Intake Grille

A. Attaching the corner cover

- 1) Check that the safety cord from the corner cover is fastened to the ceiling panel pin, as shown in the figure below.
- 2) Use the supplied screws to attach the corner cover to the ceiling panel.



B. Attaching the air-intake grille

- To install the air-intake grille, follow the steps for "Removing the grille" in the reverse order. By rotating the air-intake grille, it is possible to attach the grille onto the ceiling panel from any of 4 directions. Coordinate the directions of the airintake grilles when installing multiple units, and change the directions according to customer's requests.
- When attaching the air-intake grille, be careful that the flap lead wire does not become caught.
- Be sure to attach the safety cord that prevents the air-intake grille from dropping off to the ceiling panel unit as shown in the figure below.
- With this ceiling panel, the directions of the air-intake grille lattices when installing multiple units, and the position of the label showing the company name on the corner panel, can be changed according to customer's requests, as shown in the figure below. However, the wireless signal receiver can only be installed at the refrigerant-tubing corner of the ceiling unit.

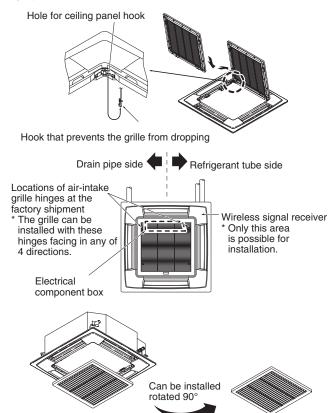


Fig. 1-139

6-43. Others

- (1) Checking After Installation
 - Check that there are no gaps between the unit and the ceiling panel, or between the ceiling panel and the ceiling surface.
 - * Gaps may cause water leakage and condensation.
 - 2) Check that the wiring is securely connected.
 - * If it is not securely connected, the auto flap will not operate.
 - ("P09" is displayed on the remote controller.) In addition, the water leakage and condensation may occur.
- (2) Operating the Wireless Remote Controller For details of installation, refer to the section "Wireless Signal Receiver" in the supplied installation instructions.
- (3) Selecting DC Fan Motor Tap (4-Way cassette $36^{\circ} \times 36^{\circ}$) Check the optional parts accordingly in the following table.

Table for DC Fan Motor Tap Setting

Setting No.	Remote controller setting data Item code 5d	Contents & optional parts name
(3)	0003	Air-blocking material (for 3-way air discharge)
	0003	Air-blocking material (when a discharge duct is connected)
(6)	0006	Air-blocking material (for 2-way air discharge)

<Criteria based on the ceiling height>

Setting No.	Remote controller setting data Item code 5d	S-26PU2U6	S-36PU2U6 S-42PU2U6
(1)	0001	Over 10.8ft. (3.3m)	Over 12.8ft. (3.9m)
(3)	0003	Max. 12.8ft. (3.6m)	Max. 14.8ft. (4.5m)

- *1 When using optional parts in different setting No. in combination with multiple units, conform it to the larger setting No.
- When setting from the P.C. Board <Procedure>

Stop the system before performing these steps.

- ① Open the electrical component box cover, then check the indoor unit control PCB.
- ② Connect the jumper connector (2P: yellow) which was supplied with the optional parts to the correct connector pin on the indoor unit control PCB according to the setting number which was confirmed in Table for DC Fan Motor Tap Setting.

Setting No. (3):

Then connect the jumper connector to the connector pin TP3 (2P: yellow) on the indoor unit control PCB.

Setting No. (6):

Then connect the jumper connector to the connector pin TP6 (2P: white) on the indoor unit control PCB.

1. Specifications

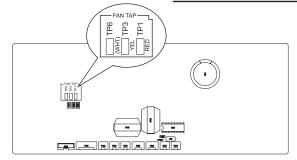


Fig. 1-140

2) When setting with the Wired Remote Controller < Procedure of CZ-RTC2>

Stop the system before performing these steps.

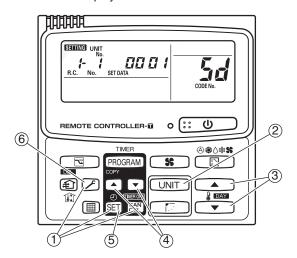
- 1) Press and hold the A, SET and A buttons simultaneously for 4 seconds or longer.
- ② If group control is in effect, press the UNIT button and select the address (unit No.) of the indoor unit to set. At this time, the fan at the indoor unit begins operating.
- ③ Designate the item code 5 by adjusting the Temperature Setting ▲ / ▼ buttons.
- ④ Press the timer time ▲ / ▼ buttons to select the desired setting data.
 - * For item codes and setting data, refer to "Table for DC Fan Motor Tap Setting".
- $\ensuremath{\mathfrak{D}}$ Press the $\ensuremath{\mathfrak{D}}$ button.

(The display stops blinking and remains lit, and setting is completed.)

*If air-blocking material is used, use the same procedure as in steps ③ – ⑤ above and change the setting for item code "62" to "0000".

If you wish to change the selected indoor unit, follow the step ②.

6 Press the button to return to normal remote controller display.



<Procedure of CZ-RTC3 /CZ-RTC5> Stop the system before performing these steps.

1 Keep pressing the , , and buttons simultaneously for 4 or more seconds.

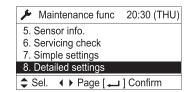
The "Maintenance func" screen appears on the LCD display.



② Press the ▼ or ▲ button to see each menu.

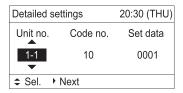
If you wish to see the next screen instantly, press the or ▶ button.

Select "8. Detailed settings" on the LCD display and press the ▶ button.

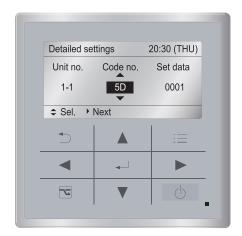


The "Detailed settings" screen appears on the LCD display.

③ Select the "Unit no." by pressing the ▼ or ▲ button for changes.



④ Select the "Code no." by pressing the or button. Change the "Code no." to "5D" by pressing the or or button or button (or keeping it pressed).



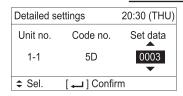
(5) Select the "Set data" by pressing the button.

Select one of the "Set data" in "Table for DC Fan

Motor Tap Setting" by pressing the

or
button.

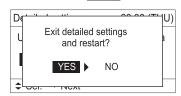
Then press the | Updated button.



6 Press the button.

The "Exit detailed settings and restart?" (Detailed settingend) screen appears on the LCD display.

Select "YES" and press the | Ubutton.



*If air-blocking material is used, use same procedure as in steps (3)~(6) above and change the setting for Code no."62" to "0000".

If you wish to change the selected indoor unit, follow the step 2.

<Pre><Pre><Pre><Pre>

Stop the system before performing these steps.

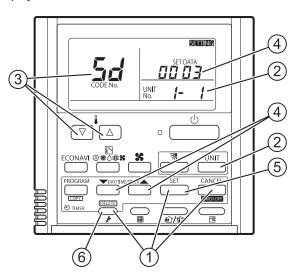
- 1) Press and hold the \nearrow , $\stackrel{\text{\tiny SET}}{-}$ and $\stackrel{\text{\tiny CANCEL}}{-}$ buttons simultaneously for 4 seconds or longer.
- ② If group control is in effect, press the button to set. At this time, the fan at the indoor unit begins and select the address (unit No.) of the indoor unit operating.
- ③ Designate the item code $\mathbf{5d}$ by adjusting the Temperature Setting ∇ / \triangle buttons.
- 4 Press the timer time buttons to select the desired setting data.
 - *For item codes and setting data, refer to "Table for DC Fan Motor Tap Setting".
- (5) Press the button.

(The display stops blinking and remains lit, and setting is completed.)

*If air-blocking material is used, use the same procedure as in steps (3) - (5) above and change the setting for item code "62" to "0000".

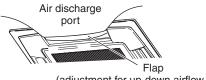
If you wish to change the selected indoor unit, follow the step 2.

6 Press the button to return to normal remote controller display.



(4) Setting the Flap Separately

1) The 4-air outlet flap can be adjusted separately during operation. When not adjusted separately, all flaps operate in the same manner.

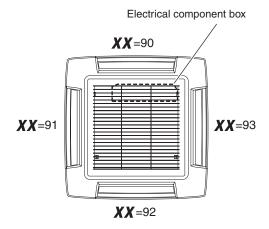


(adjustment for up-down airflow direction)

<Pre><Pre>cedure of CZ-RTC2>

Stop the system before performing these steps.

- 1) Press and hold the F, SET and Ab buttons simultaneously for 4 seconds or longer.
- ② If group control is in effect, press the UNIT button and select the address (unit No.) of the indoor unit to set. At this time, the fan at the indoor unit begins operating.
- ③ " STING", unit No. " 1" (or " AL L" in the case of group control), item code " XX", and settings data " YYYY" are displayed blinking on the remote controller LCD display.
- ④ Designate the item code " ✗✗" by adjusting the Temperature Setting ▲ / ▼ buttons.



1. Specifications

⑤ Press the timer time ▲ / ▼ buttons to select the desired setting data.

Flap position



Fig. 1-141

* Setting data " YYYY " (refer to Fig. 1-141)

Setting data	Flap position during operation	
00 00	Without separate setting	
Swing Swing		
00 02	Move to position 1 and stay	
0003	Move to position 2 and stay	
0004	Move to position 3 and stay	
00 05	Move to position 4 and stay	
00 06	Move to position 5 and stay	

When the flap position is set to 4 or 5 and the unit is in the cooling or dry mode, the flap position is moved to 3 and the operation is started. (refer to Fig. 1-141)

NOTE

The flap swings during the operation under "Setting the Flap Separately".

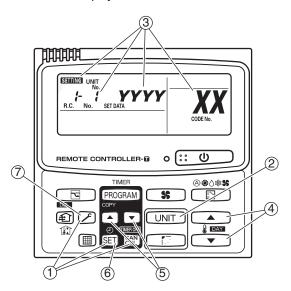
At this time, the unselected flaps are moved to the position 1. (refer to Fig. 1-141)

(6) Press the (SET) button.

(The display stops blinking and remains lit, and setting is completed.)

If you wish to change the selected indoor unit, follow the step (2).

Press the button to return to normal remote controller display.



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 $\label{thm:continuous} \textbf{Stop the system before performing these steps.}$

① Keep pressing the ______, ____ and _____ buttons simultaneously for 4 or more seconds.

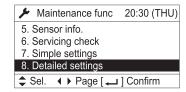
The "Maintenance func" screen appears on the LCD display.



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.

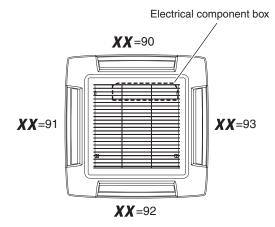


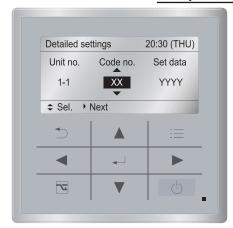
The "Detailed settings" screen appears on the LCD display.

③ Select the "Unit no." by pressing the ▼ or ▲ button for changes.



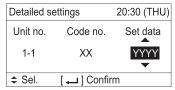
④ Select the "Code no." by pressing the or button Change the "Code no." to "XX" by pressing the or or button (or keeping it pressed).





⑤ Select the "Set data" by pressing the or button. Select one of the Setting Data "YYYY" by pressing the





Flap position

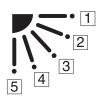


Fig. 1-142

* Setting data " YYYY " (refer to Fig. 1-142)

Colling data	(10101 to 1 lg. 1 1 12)
Setting data	Flap position during operation
00 00	Without separate setting
0001	Swing
0002	Move to position 1 and stay
0003	Move to position 2 and stay
00 04	Move to position 3 and stay
00 05	Move to position 4 and stay
00 06	Move to position 5 and stay

When the flap position is set to 4 or 5 and the unit is in the cooling or dry mode, the flap position is moved to 3 and the operation is started. (refer to Fig. 1-142)

NOTE

The flap swings during the operation under "Setting the Flap Separately".

At this time, the unselected flaps are moved to the position 1. (refer to Fig. 1-142)

⑥ Press the button. The "Exit detailed settings and restart?" (Detailed settingend) screen appears on the LCD display.

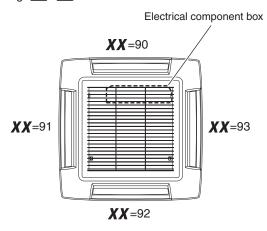
Select "YES" and press the | Ubutton.



If you wish to change the selected indoor unit, follow the step 2.

<Procedure of CZ-RTC4>Stop the system before performing these steps.

- ① Press and hold the \nearrow , $\stackrel{\text{SET}}{=}$ and $\stackrel{\text{CANCEL}}{=}$ buttons simultaneously for 4 seconds or longer.
- ② If group control is in effect, press the button to set. At this time, the fan at the indoor unit begins and select the address (unit No.) of the indoor unit operating.
- ③ Designate the item code "**XX**" by adjusting the Temperature Setting $(\nabla)/(\triangle)$ buttons.



(4) Press the timer time) buttons to select the desired setting data.

Flap position

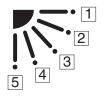


Fig. 1-143

* Setting data " YYYY " (refer to Fig. 1-143)

Setting data	Flap position during operation
00 00	Without separate setting
0001	Swing
00 02	Move to position 1 and stay
0003	Move to position 2 and stay
0004	Move to position 3 and stay
00 05	Move to position 4 and stay
00 06	Move to position 5 and stay

1. Specifications

When the flap position is set to 4 or 5 and the unit is in the cooling or dry mode, the flap position is moved to 3 and the operation is started. (refer to Fig. 1-143)

NOTE

The flap swings during the operation under "Setting the Flap Separately".

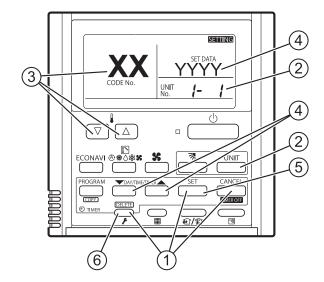
At this time, the unselected flaps are moved to the position 1. (refer to Fig. 1-143)

 \bigcirc Press the $\stackrel{\text{\tiny SET}}{---}$ button.

(The display stops blinking and remains lit, and setting is completed.)

If you wish to change the selected indoor unit, follow the step (2).

6 Press the button to return to normal remote controller display.



6-44. Accessories Supplied with Unit

(4-Way Cassette 36" × 36")

Part Name	Figure	Q'ty	Remarks
Washer	0	8	For suspension bolts
Screw		4	For full-scale installation diagram
Insulating tape		2	For gas and liquid tube flare nuts
Flare insulator		1	For liquid tube
Flare insulator		1	For gas tube
Drain hose		1	
Hose band	8	1	For securing drain hose
Drain socket		1	
Packing		1	For drain hose joint
Drain insulator		1	

Part Name	Figure	Q'ty	Remarks
Full-scale installation diagram		1	Card board

Part Name	Figure	Q'ty	Remarks
Wire mounting bracket		1	
Wire cover		1	
Clamper		1	
Screw	E.M.	3	For wire mounting bracket and wire cover

Part Name	Figure	Q'ty	Remarks
Operating Instructions		1	
Installation Instructions		1	
Warranty card		1	

- Use 3/8" (M10) for suspension bolts.
- Field supply for suspension bolts and nuts.

■ Wall Mounted (Type K2)

6-45. Remove the Rear Panel from the Unit

- Remove and discard the set screw on the rear panel. (Fig. 1-144)
- (2) Press the 2 △ marks on the frame cover and disengage the stationary tabs from the frame. (Fig. 1-145)
- (3) Remove the rear panel by grasping the sections shown in Fig. 1-146 and pulling it in the direction shown by the arrow.



Tubing can be extended in 6 directions as shown in Fig. 1-148. Select the direction you need providing the shortest run to the outside unit.

 When left tubing is to be done, switch the drain hose and drain cap. (For details, see the section "Switching drain hose and drain cap" on page 1-168.)

6-46. Make a Hole

- (1) Place the rear panel from the indoor unit on the wall at the location selected. Make sure the panel is horizontal, using a carpenter's level or tape measure to measure down from the ceiling. Wait until after cutting the hole before attaching the rear panel to the wall.
- (2) Determine which side of the unit you should make the hole for tubing and wiring. (Fig. 1-149)

NOTE

In the case of left-rear tubing, use the measurement points 158 mm from the marked position on the rear panel for precise placement of the hose outlet. (Fig. 1-149)

(3) Before making the hole, check carefully that no studs or pipes are directly run behind the spot to be cut.



Also avoid areas where electrical wiring or conduits are located.

The above precautions are also applicable if tubing goes through the wall in any other location.

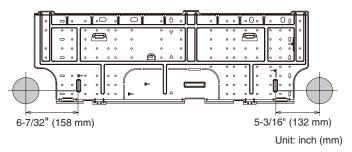
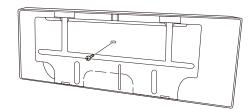


Fig. 1-149



Set screw only for transportation

Fig. 1-144

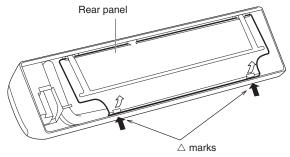


Fig. 1-145

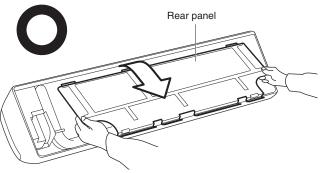
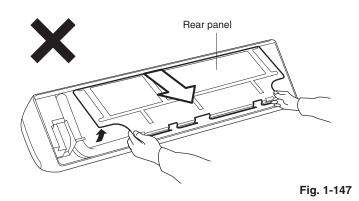


Fig. 1-146



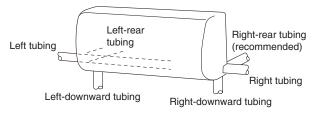


Fig. 1-148

(4) Using a sabre saw, keyhole saw or hole-cutting drill attachment, cut a hole in the wall. See Table 1-15 and Fig. 1-150.

Table 1-15

14510 1 10	
Hole Dia.	
3-5/32" (80 mm)	

- (5) Measure the thickness of the wall from the inside edge to the outside edge and cut PVC pipe at a slight angle 1/4" (6 mm) shorter than the thickness of the wall. (Fig. 1-151)
- (6) Place the plastic cover over the end of the pipe (for indoor side only) and insert the pipe in the wall. (Fig. 1-152)

6-47. Install the Rear Panel on the Wall

Be sure to confirm that the wall is strong enough to suspend the unit.

There are a number of screw holes on the rear panel.

Using the 8 screw holes with ← mark is recommended to attach the rear panel securely to the wall.

NOTE

Be sure to install the unit within the range of the wall.

If Wooden Wall

 Attach the rear panel to the wall with the 8 screws provided. (Fig. 1-153)

If you are not able to line up the holes in the rear panel with the beam locations marked on the wall, use rawl plugs or toggle bolts to go through the holes on the panel or drill 3/16" (5 mm) dia. holes in the panel over the stud locations and then mount the rear panel.

- (2) Double check with a carpenter's level or tape measure that the panel is level. This is important to install the unit properly. (Fig. 1-154)
- (3) Make sure the panel is flush against the wall. Any space between the wall and unit will cause noise and vibration.

1. Specifications

NOTE

Hole should be made at a slight downward slant to the outdoor side.

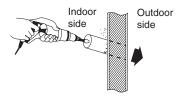


Fig. 1-150

PVC pipe (Locally purchased)

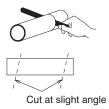


Fig. 1-151

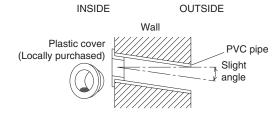


Fig. 1-152

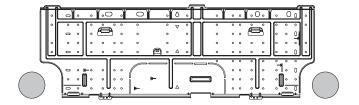


Fig. 1-153

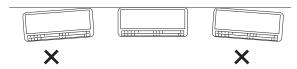


Fig. 1-154

6-48. Removing and Installing the Grille

Basically, these models can be installed and wired without removing the grille. If access to any internal part is needed, follow the steps as given below.

How to remove the grille

- (1) Open the front panel until it is nearly horizontal, grasp the sections near the front panel arms on both sides, and then remove the panel by pushing the arms towards the outside while pulling the panel towards you. If the front panel is difficult to remove, grasp both ends of it and lift it up slightly. Move it to the left and disengage the left arm, then move it to the right and disengage the right arm. (Fig. 1-155)
- (2) Lift the anti-mold filter up slightly to disengage it from the protrusions on the unit, and then pull downward to remove the filter from the unit. (Fig. 1-155)
- (3) Remove the 3 screws from the front of the unit and remove the screw covers on the bottom surface. Then remove the 2 screws. (Fig. 1-156)
- (4) Remove the screw on the right side cover plate and remove the cover. (Fig. 1-156)
- (5) Remove the lower flap by disengaging 4 pins of the lower flap in order. (Figs. 1-157 and 1-158) (The flap is so flexible that it can be easily removed.)
- (6) Lift up the grille in the direction shown by the arrow and pull the grille towards you to remove it. (Fig. 1-159)

How to replace the grille

- (1) While aligning the top edge of the grille with the frame, move the grille horizontally and insert the top and bottom into the frame.
- (2) Press the grille firmly with your hand to ensure no gap exists between the frame and grille.
- (3) Tighten the 6 screws. And fix the removed covers in place.
- (4) Grasp the sections near the front panel arms on both sides, and hold the front panel so that it is nearly horizontal. Push the arm shafts towards the outside so that they come into contact with the top of the indentations on the right and left sides of the air conditioner. Then push firmly until the arm shafts click into place. (Fig. 1-160)
- (5) Remount the lower flap. (In remounting the flap, it cannot be turned end for end because the right and left pins of the flap differ in form. (Fig. 1-158))
- (6) Insert the top of the anti-mold filter, and then secure the bottom of the filter with the protrusions on the unit.
- (7) When closing the front panel, push the central part of the front panel first and then press the bottom right and left corners in place until you feel a click. (Fig. 1-161)

NOTE

Check that no gap exists between the frame and the grille.

1. Specifications

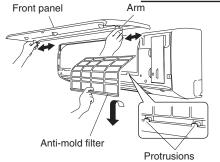


Fig. 1-155

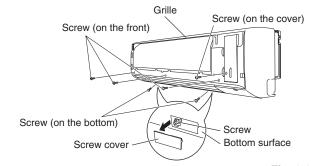


Fig. 1-156

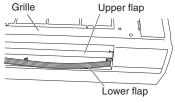


Fig. 1-157

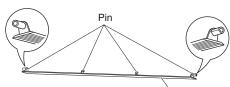


Fig. 1-158 Lower flap

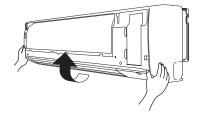


Fig. 1-159

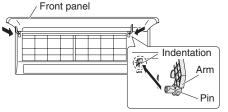


Fig. 1-160

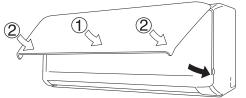


Fig. 1-161

6-49. Shape the Indoor Side Tubing

- (1) Arrangement of tubing by direction
 - a) Right or left tubing
 - Cut out the corner of the right/left frame with a hacksaw or the like. (Figs. 1-162 and 1-163)
 - b) Right-rear or left-rear tubingIn this case, the corner of the frame need not be cut.
- (2) To mount the indoor unit on the rear panel:

Hang the 3 mounting slots of the unit on the upper tabs of the rear panel. (Fig. 1-164)

6-50. Wiring Instructions

General precautions on wiring

- 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, with a power supply disconnect and circuit breaker for overcurrent protection provided in the exclusive line.
- (3) To prevent possible hazards due to insulation failure, the unit must be grounded.
- (4) Each wiring connection must be done tightly and 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.

1. Specifications

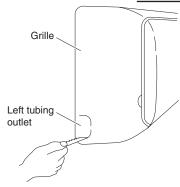


Fig. 1-162

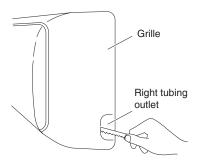


Fig. 1-163

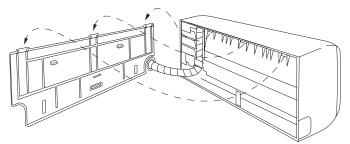


Fig. 1-164

1. Specifications

6-51. Mounting (1) To install the indoor unit, mount the

- (1) To install the indoor unit, mount the indoor unit onto the 3 tabs on the upper part of the rear plate.
- (2) Hold down the air discharge outlet and press the lower part of the indoor unit until it clicks to securely fasten to the 2 tabs on the lower part of the rear plate. (Fig. 1-165)

NOTE

For tubing, choose either the right or left tubing direction and follow the steps below. Also, extend the support on the back of the indoor unit as a stand to make your work easier. (Fig. 1-166)

6-52. Right-side tubing

- Shape the refrigerant tubing so that it can easily go into the wall hole. (Fig. 1-167)
- (2) Push the wiring, refrigerant tubing, and drain hose through the hole in the wall. Adjust the indoor unit so it is securely seated on the rear panel. (Fig. 1-168)
- (3) Carefully bend the tubing (if necessary) to run along the wall in the direction of the outdoor unit and then tape as far as the fittings. The drain hose should come straight down the wall to a point where water runoff won't stain the wall.
- (4) Connect the refrigerant tubing to the outdoor unit. (After performing a leak test on the connecting part, insulate it with the tubing insulation. (Fig. 1-169)).
- (5) Assemble the refrigerant tubing, drain hose, and conduit (including inter-unit wiring) as shown in Fig. 1-170.

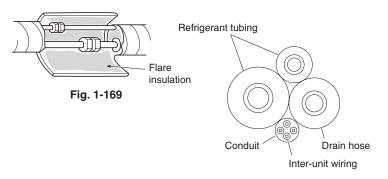


Fig. 1-170

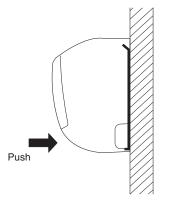


Fig. 1-165

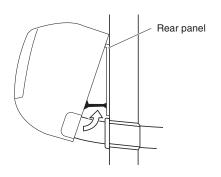


Fig. 1-166

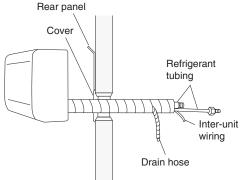


Fig. 1-167

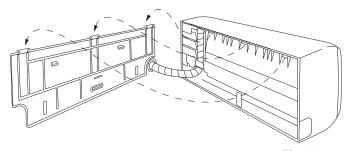


Fig. 1-168

6-53. Left-side tubing

- (1) Lead the tubing and drain hose through the wall, allowing sufficient length for connection. Then bend the tubing using a tube bender to make the attachment. (Fig. 1-171)
- (2) Switch the drain hose and drain cap.

Switching drain hose and drain cap

- (a) Locate the drain hose and the drain cap. (Fig. 1-172)
- (b) Remove the screw fastening the drain hose on the right side, and pull out the drain hose to remove it. (Fig. 1-172)
- (c) Apply moderate force to pull off the drain cap on the left side. (If you cannot pull it off by hand, use a long-nose pliers.)
- (d) Reattach the drain hose to the left side and the drain cap to the right side. (Fig. 1-173)

Drain hose

Slide the drain hose fully onto the drain pan outlet. (It will be easy to slide when water is added.) Check that the screw holes in the drain bracket and the drain pan outlet are aligned and securely in contact, then fasten them with the screw. (After attaching the drain hose, check that it is attached securely.) (Fig. 1-174)

Drain cap

Use a Phillips head screwdriver to push the drain cap in firmly. (If it is difficult to push in, wet the cap with water first.)

- (3) Install the indoor unit on the rear panel.
- (4) Connect the tubing and wiring led inside from outdoors.
- (5) After completing a leak test, bundle the tubing together with armoring tape and store it inside the tubing storage area at the back of the indoor unit and hold it with clamps. (Figs. 1-173 and 1-175)

Rear panel Hole in wall Bent part Narrow tube Wide tube

Fig. 1-171

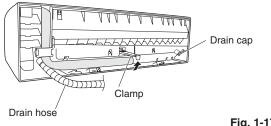
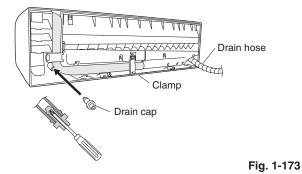
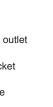


Fig. 1-172





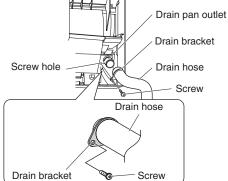
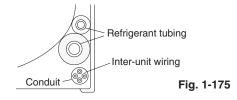


Fig. 1-174



To unmount indoor unit

- Remove the screw cover on the bottom surface. (Fig. 1-176)
- (2) Fasten the frame to the rear panel using the 2 supplied tapping screws 5/32 × 13/32" (4 × 10 mm). (Fig. 1-176)
- (3) Press the 2 △ marks on the lower part of the indoor unit and unlatch the tabs. Then lift the indoor unit and unmount. (Fig. 1-177)

NOTE

Under normal conditions, the installation design calls for a less than 2 mm gap between the air conditioner unit and the wall.

Confirm that the gap is appropriate (less than 5/64" (2 mm)).

6-54. Drain Hose

- The drain hose should be slanted downward to the outdoors. (Fig. 1-178)
- b) Never form a trap in the course of the hose.
- If the drain hose will run in the room, insulate the hose with insulation* so that chilled condensation will not damage furniture or floors. (Fig. 1-179)
 - *Foamed polyethylene or its equivalent is recommended.



WARNING

Do not supply power to the unit or operate it until all tubing and wiring to the outside unit are completed.



Risk of Electric Shock

1. Specifications

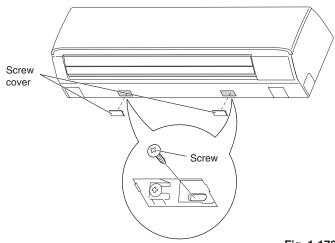


Fig. 1-176

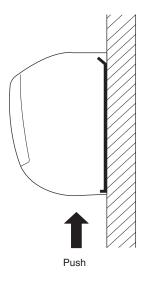


Fig. 1-177

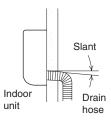


Fig. 1-178

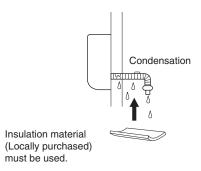


Fig. 1-179

■ Ceiling (Type T2)

6-55. Selecting the Installation Site

Indoor Unit

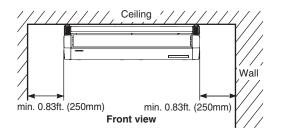
AVOID:

- 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.

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 3.3ft. (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.

Ceiling



NOTE

The rear of the indoor unit can be installed flush against the wall.

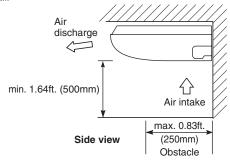


Fig. 1-180

1. Specifications

Unit: inch (mm)

6-56. Required Minimum Space for Installation and Service

(1) Dimensions of suspension bolt pitch and unit

Type Length		Α	В	С
00	inch	48-17/64	50-13/64	9-1/4
26	mm	1226	1275	235
26.40	inch	62-43/64	62-19/32	9-1/4
36, 42	mm	1541	1590	235

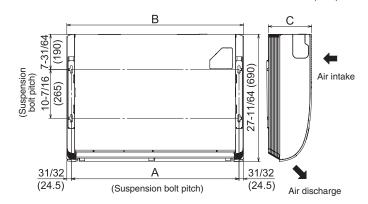


Fig. 1-181

Unit: inch (mm)

(2) Refrigerant tubing • drain hose position

at time of shipment.

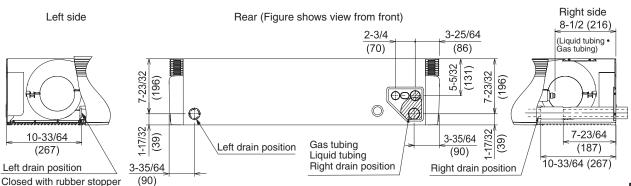
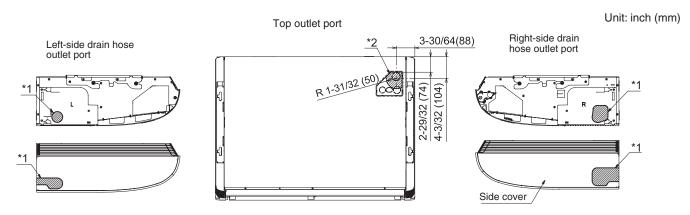
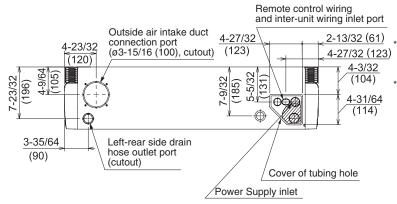


Fig. 1-182

(3) Unit opening position (Refrigerant tubing • drain hose • power inlet port • remote control wiring inlet port)



Rear outlet port (Figure shows view from front)



- *1 Use a compass saw, jig saw or similar tool and cut along the indented portion of the side cover and make a hole inside the cover.
- *2 When pulling the refrigerant tubing from the upper side, cut along the indented portion and pass the tubing through the hole.

NOTE

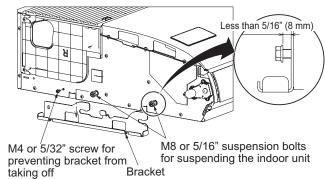
Be sure to use sealing putty to seal off the opening to prevent dust.

Fig. 1-183

6-57. Preparation Before Installation

(1) Remove the bracket (for suspending the indoor unit). Loose the M8 or 5/16" suspension bolts. Then remove the bracket. (Fig. 1-184)

Loosen the M8 or 5/16" suspension bolts and expose the axis of bolts less than 5/16" (8 mm).



Fia. 1-184

(2) Remove the air-intake grille before suspending the indoor unit. First, remove 2 attachment screws fixed with the latches. Open the airintake grille and hold the claws of the hinges on both sides. Then remove the air-intake grille and suspension lug located on the left and right side of the indoor unit.

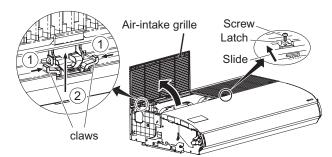


Fig. 1-185

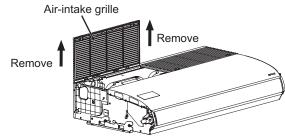


Fig. 1-186

(3) Remove the side plate to the tubing side.

Rear & upper side	Remove 2 screws. Slide the side plate in the direction of the arrow and remove it.		
Right side tubing connection	Do not remove the side plate.		

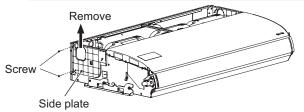


Fig. 1-187

1. Specifications

(4) Remove the center bracket.

When wiring, remove the center bracket if necessary. When wiring is completed, reinstall the center bracket in its original position.

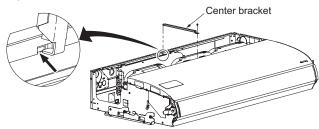


Fig. 1-188

6-58. Suspending the Indoor Unit

NOTE

Since the diagram is made of paper, it may shrink or stretch slightly because of high temperature or humidity.

For this reason, before drilling the holes maintain the correct dimensions between the markings.

(1) If the full-scale installation diagram is placed on the ceiling, the locations of each suspension bolt can be chosen.

Take a pencil and mark the drill holes (Fig. 1-189).

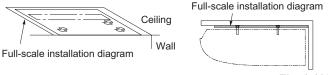
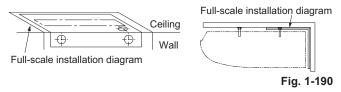


Fig. 1-189

If the full-scale installation diagram is bent at right angle to the ceiling and wall, the locations of the inlet for indoor tubing and wiring are chosen and the locations of each suspension bolt can also be chosen.

Take a pencil and mark the drill holes (Fig. 1-190).



NOTE

The dimension when the indoor unit is placed tightly against the wall.

When installing away from the wall, drainage gradient should be taken into consideration.

- (3) Drill holes at the 4 points indicated on the full-scale diagram.
- (4) Depending on the ceiling type:
 - a) Insert suspension bolts (Fig. 1-191).
 - b) Use existing ceiling supports or construct a suitable support (Fig. 1-192).

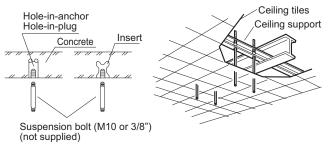


Fig. 1-192 Fig. 1-191

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

- (5) Screw in the suspension bolts, allowing them to protrude from the ceiling (Figs. 1-191 and 1-192).
 - The distance of each exposed bolt must be of equal length within 1-31/32" (50 mm). (Fig. 1-193)

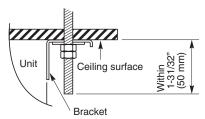


Fig. 1-193

- (6) Carry out the preparation for suspending the indoor unit. The suspension method varies depending on whether there is a suspended ceiling or not. (Figs. 1-194 and 1-195)
- (7) Suspend the indoor unit as follows:
 - a) Install the bracket to the suspension bolt.
 Stick it onto the ceiling surface. (Fig. 1-194~1-196)

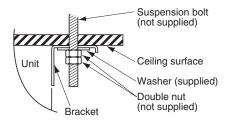


Fig. 1-194

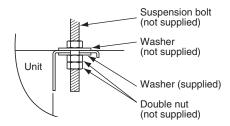


Fig. 1-195

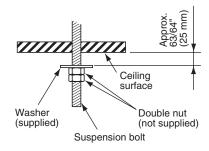


Fig. 1-196

b) Suspend the indoor unit to the bracket.

Tighten the M8 or 5/16" suspension bolts and fix the indoor unit in place. (Fig. 1-197)

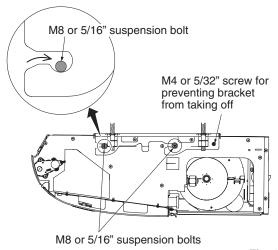


Fig. 1-197

NOTE

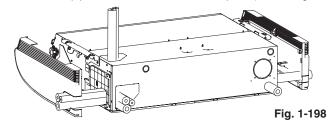
The ceiling surface is not always level. Confirm that the indoor unit is evenly suspended. For the installation to be correct, leave a clearance of about 1-31/32" (10 mm) between the ceiling panel and the ceiling surface and fill the gap with an appropriate insulation or filler material.

6-59. Duct for Fresh Air (Field supply)

There is a outside air intake duct connection port (cut out hole) at the left-rear of the indoor unit for drawing in fresh air. If it is necessary to draw in fresh air, remove the cover by opening the hole and connecting the duct to the indoor unit through the connection port. (Refer to Fig. 1-183)

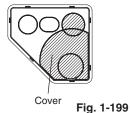
6-60. Shaping the Tubing

- The positions of the refrigerant tubing connections are shown in the figure below. (The tubing can be routed in 3 directions.) (Fig. 1-198)
- * When routing the tubing out through the top or right sides, cut out the cover of the top panel and cut notches in the side panel (Refer to Fig. 1-199).



Use a box cutter or similar tool to cut out the part of the cover indicated by the marked area (Fig. 1-199), to match the positions of the tubes.

Pass all refrigerant tubes through this hole.



6-61. Installing the Drain Pipe

- Prepare hard PVC pipe for the drain and connect it to the indoor unit drain pipe with the supplied hose band to prevent water leaks.
- Measure the thickness of the wall from the inside to the outside and cut PVC pipe at a slight angle to fit. Insert the PVC pipe in the wall.
 (Fig. 1-201)

NOTE

The hole should be made at a slight downward slant to the outside.

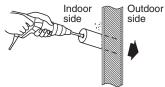


Fig. 1-200

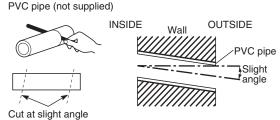


Fig. 1-201

- (1) Drain hose connection
- The drain hose is connected below the refrigerant tubing.
- (2) Installing the drain hose
- First insert the drain hose (supplied) to the hose band (supplied) and then install the drain hose to the unit drain port.
- Insert until the drain hose bumps to the end.
- Attach the hose band to make the fixed portion 45° upper gradient according to a vinyl tape (not supplied) of the drain hose (supplied). (Fig. 1-203)
- ◆ Hose band screw torque is 2.6 3.0 lbf-inch (30 35 N·cm).
- Wind the vinyl tape not to blow up the hose band.
- Connect both the drain hose and PVC pipe (VP20 or similar material, not supplied). Insert until the PVC pipe bumps to the end and adhere with PVC adhesive.

↑ CAUTION

- Wrap the drain insulator (supplied) between the connection of the drain hose and tubing not to expose the copper tubing. Also, wrap the hose band together. Wrap the hose band with the drain insulator, where the screw is located facing upward (Fig. 1-203). Then, tighten the insulator with a vinyl tape not to cause the detachment. If the tubing parts remain exposed, condensation may occur.
- Be sure to use the supplied drain hose.
- If other commercially available hose bands are used, the drain hose may become pinched or wrinkled and there is danger of water leakage.
- Therefore be sure to use the supplied hose bands.
- Connect the drain pipe so that it slopes downward from the unit to the outside. (Fig. 1-202)

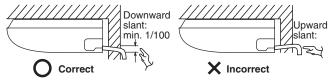


Fig. 1-202

- Never allow water traps to occur in the course of the piping.
- Insulate any piping inside the room to prevent dripping.
- After the drain piping, pour an appropriate amount of water into the drain pan through the opening on the side of the air discharge port. Check the water draining smoothly.

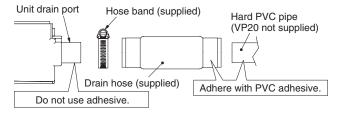
1. Specifications

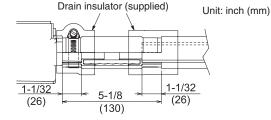
- * If the drain hose is routed through the left side, refer to Fig. 1-198, and follow the procedure above to install the hose.
 - Reattach the rubber stopper removed earlier onto the right side.

The rubber stopper can be inserted easily by using a screwdriver or similar tool to press the stopper into the drain port on the main unit.

Press the stopper into the main unit drain port as far as it will go.

Rubber stopper





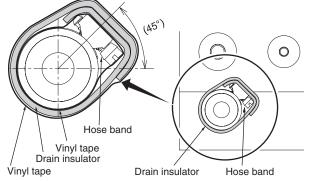


Fig. 1-203

A CAUTION

The indoor unit should be slightly tilted downward toward the drain pipe connection side as shown in figure below so that the wastewater can flow smoothly without being trapped in the middle. (Fig. 1-204)

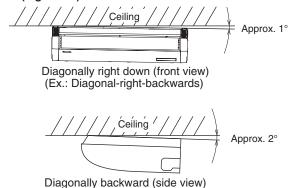


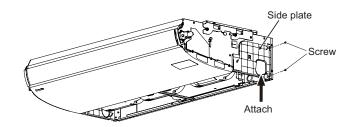
Fig. 1-204

1. Specifications

6-62. Final Procedure

Reinstall the removed part to be placed in its original position. (See the section "6-57. Preparation Before Installation".) Then install the accessory supplied side covers (L/R) on both sides of the indoor unit.

 Attach the supplied side plates.
 Insert the side plates in the direction of the arrow and fix them with 2 screws once you've removed.



 Attach the accessory supplied side covers.
 Slide the covers from the front side and attach to the claws of the latches.

Tighten the screws (accessory supplied).

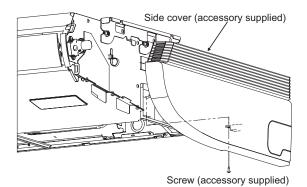


Fig. 1-205

Attach the air-intake grille.
 When attaching the air-intake grille, perform the reverse procedure to removing the grille.
 Refer to the section "6-57. Preparation Before Installation".
 Be sure to attach the safety string.

Close the air-intake grille and fix the claws of the latches with the screws.

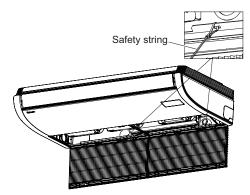


Fig. 1-206

6-63. Accessories Supplied with Unit (Ceiling)

(Coming)			
Part Name	Figure	Q'ty	Remarks
Special washer	0	4	For temporarily suspending indoor unit from ceiling
Drain insulator		2	For drain hose joint
Flare insulator		1	For gas tube joint
i lare insulator		1	For liquid tube joint
Clamper		4	For flare insulator
Clamper	•	1	For wiring
Hose band	8	1	For drain hose connection
Screw		2	For side cover (L/R)

Part Name	Figure	Q'ty	Remarks
Side cover (R)		1	(Packed in carton box) For right side
Side cover (L)		1	(Packed in carton box) For left side
Full-scale installation diagram		1	For positioning installation

Part Name	Figure	Q'ty	Remarks
Wire cover		1	For control box
Screw		1	For wire cover

Part Name	Figure	Q'ty	Remarks
Operating Instructions		1	
Installation Instructions		1	
Warranty card		1	

- Use 3/8" (M10) for suspension bolts.
- Field supply for suspension bolts and nuts.

7. HOW TO INSTALL THE WIRELESS REMOTE CONTROLLER

IMPORTANT

When using this air conditioner with the wireless remote controller it may sometimes be impossible to change the operation modes while other indoor unit is running.

- When this happens, a double beep tone sounds, the ∪ (operation lamp) lights up, and the ⊕ (Timer lamp) and (Standby lamp) blink alternately.
 - Operation is the same even during (AUTO mode) automatic cooling or heating.
- A beep tone sounds 5 times and no changes can be made when any of the ON/OFF, MODE, Temperature setting buttons were pressed while set under central control by the system controller.

7-1. Wireless Remote Controller Installation

The remote controller can be operated from either a non-fixed position or a wall-mounted position. To ensure that the air conditioner operates correctly, do not install the remote controller in the following places:

- In direct sunlight.
- Behind a curtain or other place where it is covered.
- More than 26 ft. away from the air conditioner.
- In the path of the air conditioner's airstream.
- Where it may become extremely hot or cold.
- Where it may be subject to electrical or magnetic interference.

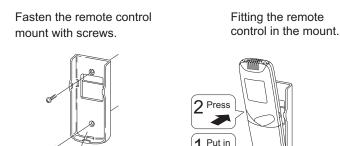
(1) If Wall-mounted Fixed Position

Install the remote controller at a convenient location on a nearby wall. However, before attaching the remote controller mounting cradle, check that the remote controller can operate from the desired wall position. (Fig. 1-207)

How to Install Batteries

See Fig. 1-208.

- (1) Press and slide the lid on the back of the remote controller in the direction of the arrow.
- (2) Install two AAA alkaline batteries. Make sure the batteries point in the direction marked in the battery compartment.
- (3) Press the reset hole, then replace the lid. If you press it, the current time, ON time, and OFF time are all reset to 0:00.



Remote control mount

Fig. 1-207 Reset hole Cover

Fig. 1-208

7-2. Room Temperature Sensor Setting

The room temperature sensors are built into the indoor unit and the wireless remote controller. Either of these room temperature sensors can operate.

The system is shipped from the factory set to the indoor unit sensor. To switch to the remote control sensor, press the sensor switching button located inside the remote control cover and check that A/C SENSOR on the LCD display panel goes out.

NOTE

If the sensor switch is set to the remote controller side, but no room temperature data is sent to the main unit for 10 minutes, the sensor is automatically switched to the indoor unit side. As much as possible, install the remote controller facing the unit.

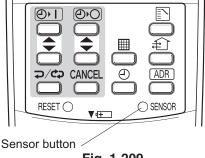


Fig. 1-209

7-3. Address Switches

If you are installing more than 1 indoor unit (up to 6) in the same room, it is necessary for you to assign each unit its own address so they each can be operated by their remote controller.

Up to 6 indoor units can be controlled separately through the address switches. The operating control has the reception address switch and the remote controller has the transmission address switch. This function is utilized by matching the transmission and reception address switches.

Remote control address display	ADR	ADR	ADR _	• • • •	ADR _
Address switch positions	* Any address switch position available	123	123	• • • •	123

7-4. Setting the Model Code

- Tlap display selector switch Make the slide switch settings in the battery compartment box of the remote controller depending on the type of indoor unit in which the wireless receiving unit is used.
- ② Operation mode switch In this Single Split System Air Conditioner set the switch to "A".
- * The switch is factory set to "S" / "A".
- * Always press the reset button after switching the setting.

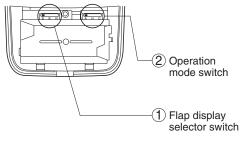
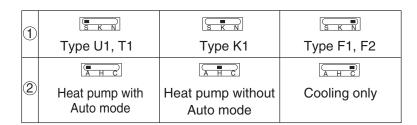


Fig. 1-210



<CZ-RWSU1U>

■ 4-Way Cassette Type (Type U1)

7-5. Indicator Section Installation

- Remove the ceiling panel and indicator cover and install the indicator section.
- (1) Remove the ceiling panel.
- (2) Remove the corner cover behind the mark section.(3 screws)
- (3) Remove the mark section inside the ceiling panel. (2 screws)
- (4) Install the indicator section in the location where the mark section was attached. (2 screws)
- (5) Form the wire to match the panel ribs as shown in Fig. 1-212.
- (6) Install the corner cover. (Restrain the wire with the corner cover.)

7-6. Operating Controller Installation

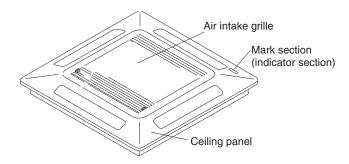


CAUTION

- Do not twist the operating controller wires together with the power supply wires. Doing so can result in malfunction.
- If electrical noise is induced in the unit power supply, take appropriate measures, for example installing a noise filter.

Install the operating controller at the indoor unit intake port section.

- (1) Fasten the operating controller to the indoor unit intake port section (electrical component box opposite side) with the 2 accessory screws (4×L13/32").
- (2) Connect the operating controller 2 wires (WHT, BLK) to the remote control wire (WHT) in the electrical component box. (For details on wiring, see the section "7-9. Electrical wiring".)
- (3) Install the ceiling panel.
- (4) Connect the indicator section and the operating controller with the 6P connector (white).
- (5) Form the wires with vinyl clamps and fasten.
- (6) Connect the ceiling panel wiring connector (2P, 3P) to the body connector in the electrical component box.
- (7) For details on test operation, see "TEST RUN".



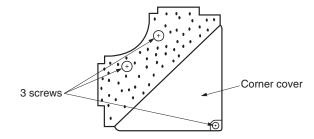


Fig. 1-211

Pass the wiring through under the shaft.

2 screws Wiring

Fig. 1-212

Indicator section

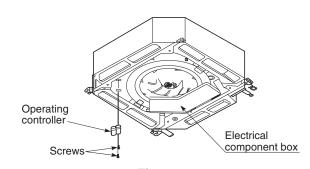


Fig. 1-213

■ Ceiling (Type T1)

7-7. Indicator Section Installation

Remove the side panel to install the indicator section. (Fig. 1-214)

- (1) Remove the side panel. Open the air intake grille, remove the screw at one place and then remove the side panel by sliding it toward the front (arrow direction).
- (2) Remove cover A and cover B. Insert a flathead screwdriver into the grooves of cover A to remove cover A and cover B. (When removing the cover, take care not to scratch the panel.)
- (3) Remove cover B from cover A.
- (4) Install the indicator section at cover A.
- (5) After passing through the lead wires, install cover A and the indicator section at the panel hole. (The protrusion part of cover A is fixed with the panel hole.)
- (6) Bundle the lead wires along with the wiring of the louver motor.
- (7) Install the side panel.

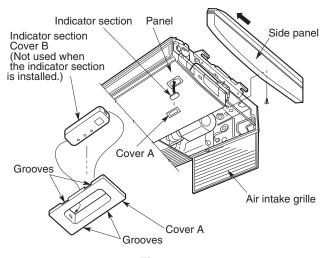


Fig. 1-214

7-8. Operating Controller Installation



CAUTION

- Do not twist the operating controller wires together with the power supply wires. Doing so can result in malfunction.
- If electrical noise is induced in the unit power supply, take appropriate measures, for example installing a noise filter.

Install the operating controller on the top face of the air intake section (space between the fan motor and the electrical component box). (Fig. 1-215)

- (1) Fasten the operating controller to the ceiling panel of the air intake section with the 2 supplied screws (4×L13/32").
- (2) Draw the lead wires into the electrical component box and connect the operating controller 2 wires (WHT, BLK) to the remote control wires in the electrical component box.
- (3) Connect the indicator section and the operating controller using the 6P connector in the electrical component box.

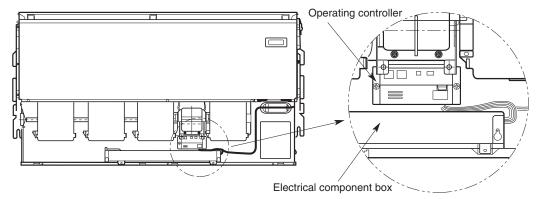


Fig. 1-215

7-9. Electrical Wiring

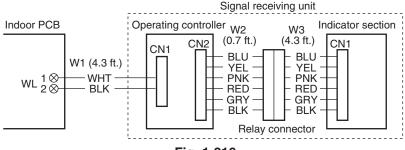


Fig. 1-216

Connection method

- (1) Connect W1 to the indoor PCB WL connector.
- (2) Connect W3 from the indicator section with W2 from the operating controller using the relay connector.

7-10. Test Run Switch

The test run switch is located in the operating control unit. See the Installation Instractions attached to the outdoor unit.

7-10-1. How to use the test run setting (Type U1, T1)

- (1) Set DIP switch [DS] No. 1 on the wireless receiver unit PCB from OFF to the ON position.
- (2) Press the ON/OFF operation button on the wireless remote controller.
- (3) Make a test run using the air conditioner in COOL or HEAT mode.
- (4) During the test run, each of the 3 indicator lamps on the indoor unit flash.
- (5) During the test run, the air conditioner runs continuously and the thermostat does not control the system.
- (6) After the test run, be sure to reset DIP switch No. 1 back to the OFF position and check that no indicator lamps are blinking.

(This receiver includes a 60-minute automatic OFF timer function in order to prevent continuous test run.)

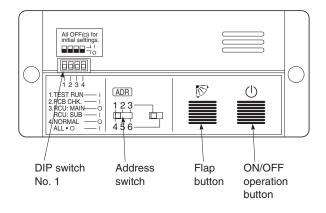


Fig. 1-217

NOTE

- In case of 4-Way Cassette Type, test run operation is not possible without the ceiling panel installation.
- To protect the air conditioner from overloading, the outdoor unit will not start running for 3 minutes after power is applied or the air conditioner is turned off and then back on.
- When the air conditioner fails to start the test run, 1 or more of the 3 alarm indicator lamps on the indoor unit will flash (See next section).
- When the DIP switch is set to "TEST ON", temperature control from the wireless remote controller is disabled.
 Do not use this setting at any time other than for the test run. Doing so will place an excessive load on the system.
- To avoid placing an excessive load on the equipment, use this function only when conducting the test run.

7-11. Misoperation Alarm Indicators

Alarm indicator lamps on the indoor unit indicate the error cause if the air conditioner fails to operate upon being switched on. The possible alarm indications are given in Table 1-16. Fig. 1-218 shows the location of the alarm lamps on the indoor unit.

(See Table 1-16 and Fig. 1-218.)

Table 1-16

	Alarm		
()(OPERATION lamp)	(TIMER lamp)	(STANDBY lamp)	Cause of Trouble
≎	•	•	S.C. errors* between the indoor unit's controller (PCB) and the remote
~			controller.
•	≎	•	Compressor protector is working.
•	•	\$	S.C. errors between indoor and outdoor units.
≎	₽	•	Indoor or outdoor thermistor is malfunctioning.
≎	•	\$	Outdoor unit protector is working.
•	₽	≎	Indoor unit protector is working.
≎	♦	\$	TEST RUN switch on the operation controller is in ON state.

^{*} S.C.: Serial communications

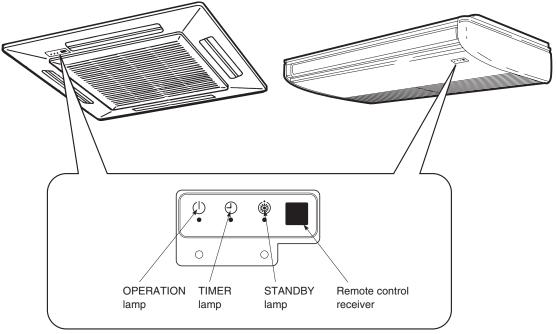


Fig. 1-218

NOTE

Stick the alarm message label accompanying the wireless remote controller on the electrical component box to indicate the cause of trouble for future reference.

CZ-RWSU3U

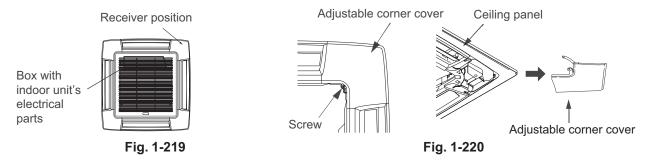
7-12. Supplied Accessories

		Supplied A	ccessories		
Wireless Remote	Remote Control	AAA Size	Operating	Wood Screw	Clamper
Controller	Holder	Battery	Instructions		
(1)	(1)	(2)	(1)	(2)	(1)
			a,) *	(-

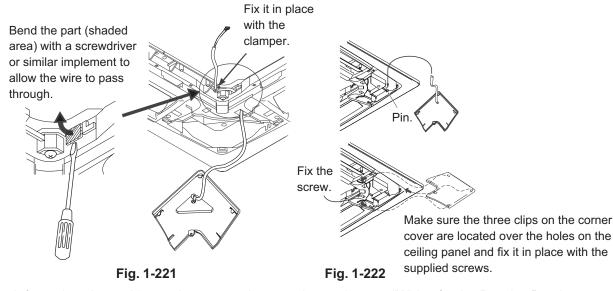
7-13. Installing the Receiver

The receiver can only be installed on the corner indicated in Fig. 1-219. Consider how the panel will face when it is installed on the indoor unit.

- 1 Remove the air inlet grill.
- 2 Remove the screw holding the adjustable corner cover. Then slide the cover to the side and remove it. (Fig. 1-220)

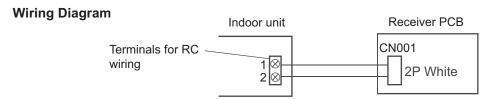


- 3 To pass the wire through the panel, bend the part (shaded area) on the square hole and then pass wire protrudingfrom the wireless receiver through the grill. (Fig. 1-221)
- 4 After wiring according to the directions in "Wiringfor the Receiver", leave enough wire length so that the receiver's adjustable corner cover can be removed andfasten the wire with the clamper. (Fig. 1-221)
- 5 Hang the corner cover string on the pin of the ceiling panel (Fig. 1-222). Then slide the corner cover onto the ceiling panel until the three clips are correctly located, and then fix it in place with the screws.
- Make sure the wire is not caught.
- Refer to the installation instructions supplied with the panel.



 For more information about wiring and test operation, see the sections on "Wiring for the Receiver" and "Test Operation"

7-14. Wiring for the Receiver



How to Connect the Wires

· Connect the wires from the receiver to the terminals for RC wiring on the indoor unit. (No polarity)

7-15. Test Operation

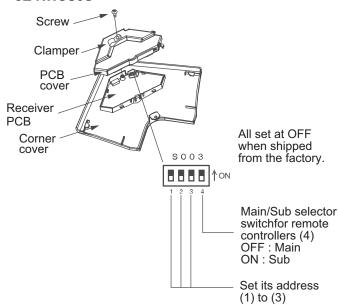
Preparation: Turn on the circuit breaker of units and then turn the power on. After the power is turned on, remote controller operation is ignored for approx. 1 minute because setting is being made. This is not malfunction. (Contents received while setting are disabled.)

- 1. To start test operation, press and hold the emergency operation button for 10 seconds.
- 2. The indication lamps (OPERATION, TIMER, STANDBY) blink during test operation.
- 3. To finish test operation, press and hold the emergency operation button for 10 seconds.

Attention

- Do not use this mode for purposes other thanthe test operation. (To prevent overload of the units)
- Read the installation instructions supplied with the units.
- Any of the Heat, Cool and Fan operations can only be performed.
- Temperature cannot be changed.
 The test operation mode is automatically turned off in 60 minutes. (To prevent continuous test operation)
- Outdoor units do not operate for approx. 3 minutes after the power is turned on or operation is stopped.

CZ-RWSU3U



Before installing the receiver, see the sections on "Wiringfor the Receiver" and "Setting Address Switches". Then check the settings of the [S003] DIP switch on the receiver's PCB.

*Remove the cover from the receiver when performing the PCB settings.

7-16. Setting Address Switches

- When more than 1 receiver is installed in the same room, setting addresses prevents interference.
- For how to change addresses of wireless remote controllers, see the operating instructions of wireless remote controllers.
- To change the receiver's address, remove the cover from the receiver's PCB and set No.1 to No.3 of the [003] DIP switch on PCB.

Remote Controller Address Display	Address ALL	Address 1	Address 2	Address 3	Address 4	Address 5	Address 6	ON/OFF States
Position of the receiver's address switch	Receipt is possible at all of the address positions	1234	1234	1234	1234	1234	1234	OFFON

■ CZ-RWST2U

7-17. Supplied Accessories

		Supplied A	ccessories		
Wireless Remote	Remote Control	AAA Size	Operating	Wood Screw	Clamper
Controller	Holder	Battery	Instructions		
(1)	(1)	(2)	(1)	(2)	(1)
			01.17	(***************************************

7-18. Installing the Receiver

- 1 Open the air inlet grill on the side panel. Remove the 1 screw and move it toward the front (in the direction of an arrow) to remove it. (Fig. 1-223)
- 2 Wrap the tip of a slotted screwdriver with plastic tape and then insert it under the O-marked surface of the cover, wiggling the cover free. (Fig. 1-224) (Be careful not to scratch the panel.)
- 3 After passing the lead wire through the panel, install the receiver in the hole in the panel. (The projecting parts of the receiver is held in the hole in the panel.)
- 4 Fasten the receiver's lead wire to the cable clip that is holding the wire from the louver motor. (Fig. 1-225)
- 5 Attach the side panel.
- 6 Put the receiver's lead wire together with other wires such as the louver motor wire, and fasten them with the cable clip. (Fig. 1-226)
- Use the hole in the upper part of the wiring box to lead it in.
- For more information about wiring and test runs, see the sections on "Wiringfor the Receiver" and "Test Operation"

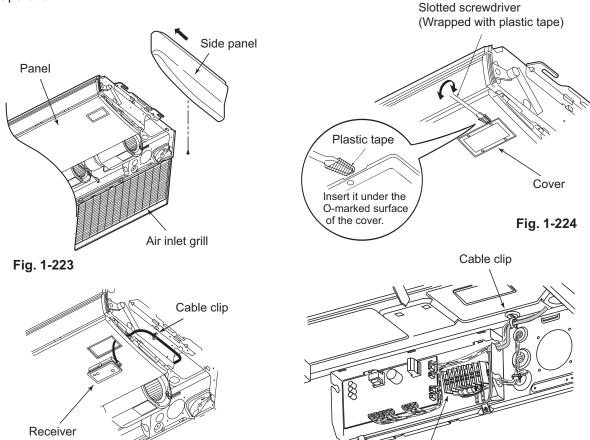


Fig. 1-225

Panel

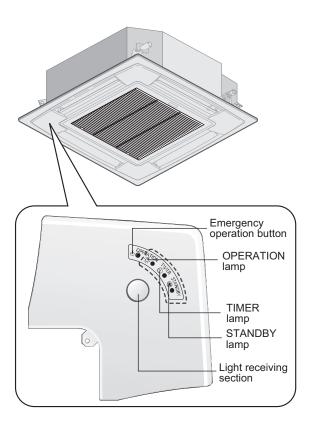
Fig. 1-226

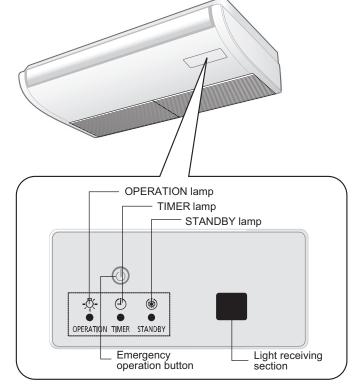
7-19. Self-diagnostics Table and Detected Contents

• The "Alarm Display" shown in the table below expresses the alarm contents displayed when the wired remote controller is connected. For how to handle the alarms, see installation instructions of indoor units or technical guide.

or indoor drints or toorniloar galas.					
Detected contents		Indica	ation lar	np on the	e receiver
	Alarm Display	OPERATIO	NTIMERS	STANDBY	Blinking
Communication error in the remote controller circuit	E01–E03, E08–E14, E17, E18	0	•	•	
Communication error either in the in/ outdoor operation line or the sub-bus of the outdoor unit	E04–E07, E15, E16, E19–E31	•	•	0	
Operation of indoor protection device	P01, P09–P14	•	0	0	Alternately
Operation of outdoor protection device	P02-P08, P15-P31	0	•	0	Alternately
Error in the indoor thermistor	F01–F03, F10–F11	0	0	•	Alternately
Error in the outdoor thermistor	F04-F09, F12-F28	0	0	0	Alternately
Error in the indoor EEPROM	F29	0	0	•	Simultaneously
Error in the outdoor EEPROM	F30, F31	0	0	0	Simultaneously
Error related to the compressor	H01-H31	•	0	•	
Error in indoor settings	L01–L03, L05–L09	0	•	0	Simultaneously
Error in outdoor settings	L04, L10–L31	0	0	0	Simultaneously
Error in the gas heat pump air conditioner	A01-A31	•	0	0	Simultaneously
Inconsistency in Cooling/Heating (Include setting for a model without auto-temp setting for a model without		0	0	0	Alternately
Oil alarm (Same as operation of outdoor	protection device)	0	•	0	Alternately
Test operation		0	0	0	Simultaneously
		•			·

●: OFF ○: ON (Illuminated) ◎: Blinking (0.5 seconds interval)





<CZ-RWSC1U>



If the signal receiving unit is installed near a rapid-start or inverter type fluorescent lamp (neither one uses glow lamps), it may be impossible to receive signals from the wireless remote controller. To avoid signal interference from fluorescent lamps, install the receiving unit at least 6.6 ft. away from the lamps and install at a location where wireless remote controller signals can be received when the fluorescent lamps are on.

7-20. Separate Type Signal Receiving Unit Installation



CAUTION

- Do not twist the operating controller wires together with the power supply wires. Doing so can result in malfunction.
- If electrical noise is induced in the unit power supply, take appropriate measures, for example installing a noise filter.
- If local electrical codes allow, this signal receving unit can be mounted using a conventional wall box for flush mounting.

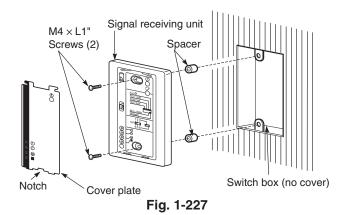
(1) If Wall mounted Fixed Position

Install the remote controller at a convenient location on a nearby wall. However, before attaching the remote controller mounting cradle, check that the remote controller can operate from the desired wall position. (Fig. 1-228)

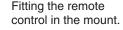
How to Install Batteries

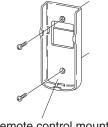
See Fig. 1-229.

- (1) Press and slide the lid on the back of the remote controller in the direction of the arrow.
- (2) Install two AAA alkaline batteries. Make sure the batteries point in the direction marked in the battery compartment.
- (3) Press the reset hole, then replace the lid. If you press it, the current time, ON time, and OFF time are all reset to 0:00.



Fasten the remote control mount with screws.







Remote control mount

Fig. 1-228

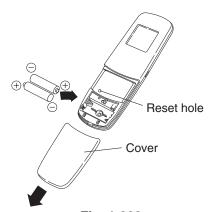


Fig. 1-229

1. Specifications

- When using the signal receiving unit on a wall with the front exposed, choose a wall surface that the signal receiving unit can be mounted on.
- Insert a flathead screwdriver into the slot on the lower side of the signal receiving unit and pry off the back case.
- (2) The wire routing at the signal receiving unit comes out of the upper case (thin portion at upper center) so use nippers or a similar tool to cut out a notch beforehand large enough for the remote control cable (option) to pass through as shown in Fig. 1-230.
- (3) Remove the wire, which is connected prior to shipping, from the connector.
- (4) Connect the remote control cable (option) to the signal receiving unit connector as shown in Fig. 1-231 after the clamp (supplied) with the unit is installed.
- (5) After arranging the wiring on the printed circuit board as shown in Fig. 1-232 so that it is contained within the signal receiving unit, attach the back case. At this time, arrange so that the head of the clamp faces the side.
- (6) Remove the cover plate and install the signal receiving unit using the 2 wood screws.
- (7) Fasten to the wall using the cord clip (supplied).
- (8) Reinstall the cover plate.
- To use the signal receiving unit while mounted on the ceiling, install by using the carrier for ceiling installation supplied with the unit.
- (1) Remove the cover plate by inserting a flathead screwdriver into the notch in the lower section and prying it off.
- (2) Cut out a section (3-3/4"×2-1/32") on the ceiling using the paper pattern (supplied) as a guide.
- (3) Run the wire through the mounting carrier and insert into the installation hole as shown in Fig. 1-234.
- (4) Fit securely into the ceiling material at sections (A) and (B) as shown in Fig. 1-235.
- (5) Connect the wire (2-wire core) from the signal receiving unit with the wire from the indoor unit. (See section on how to wire the receiving unit.) as shown in Fig. 1-235.
- (6) Use the supplied spacers to adjust for a thickness several inches more than the ceiling material and lightly fasten the receiving unit in place with the small screws (M4×1-9/16", 2 pcs.) supplied with the unit.
- (7) Tighten the machine screws after fitting sections (A) and (B) into the openings, in the gap between the signal receiving unit and ceiling surface as in Fig. 1-236. Do not apply strong force when tightening the screws. Excessive force might warp or damage the cover. When finished, the signal receiving unit should still be able to move slightly when pressed as shown in Fig. 1-236.
- (8) Reinstall the cover plate.

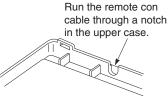


Fig. 1-230

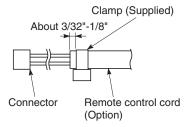


Fig. 1-231

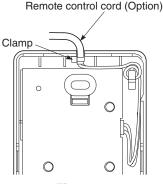


Fig. 1-232

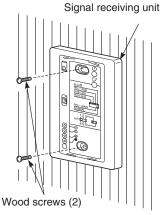


Fig. 1-233

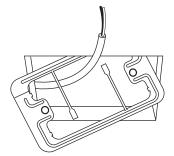


Fig. 1-234

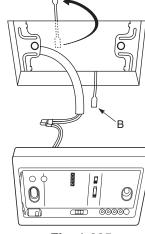


Fig. 1-235

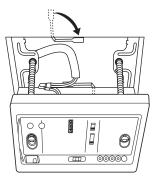


Fig. 1-236

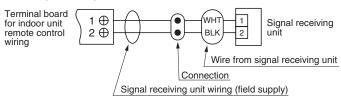
7-21. Electrical Wiring

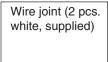


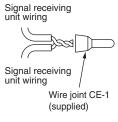
CAUTION

Be sure to do the wiring correctly (incorrect wiring will damage the equipment).

 Recommended wire diameter and allowable length for signal receiving unit wiring and its branch wiring: AWG #18, MAX 1,300 ft.







- (1) Strip the insulation to approximately 9/16" from the ends of the wires that will be connected.
- (2) Twist together the 2 wires and create a crimp connection at the wire joint.
- (3) If a special crimping tool is not used, or if the connection is soldered, insulate the wires using insulation tape.

7-22. Test Run Switch

- (1) Remove the cover plate of the signal receiving unit. Set the "TEST RUN" switch of the dip switches to the ON position.
- (2) Press the ON/OFF operation button on the wireless remote controller.



CAUTION

To avoid placing an excessive load on the equipment, use this function only when conducting the test run.

- (3) Make a test run using the air conditioner in COOL or HEAT mode.
- (4) During the test run, the "OPER.", "TIMER", and "STDBY" LED all blink.

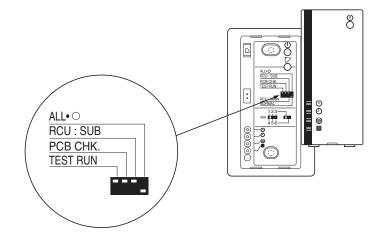


Fig. 1-237

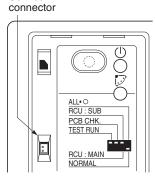
- To protect the air conditioner from overloading, the outdoor unit will not start running for approximately 3 minutes after power is applied or the air conditioner is turned off and then back on.
- When the DIP switch is set to "TEST ON," temperature control from the wireless remote controller is disabled.

 Do not use this setting at any time other than for the test run. Doing so will place an excessive load on the system.
- (5) After the test run, press the ON/OFF operation button on the wireless remote controller. Then, set the TEST RUN switch back to the OFF position to cancel the test run mode.

 (This receiver includes a 60-minute automatic OFF timer function in order to prevent continuous test run.)

7-23. Misoperation Alarm Indicators

A blinking lamp for other than the signal receiving unit filter shows that a problem has occurred in the unit, so make an inspection. (Refer to servicing information in the service manual, etc.) Also, if wired remote controller and dedicated service check lines (CV6380230938: service use) are available, then detailed error information can be obtained by connecting to the service connector as shown in the drawing. For information on how to connect to the signal receiving unit, refer to the instruction manual that came with the dedicated service check lines.



Service

Fig. 1-238

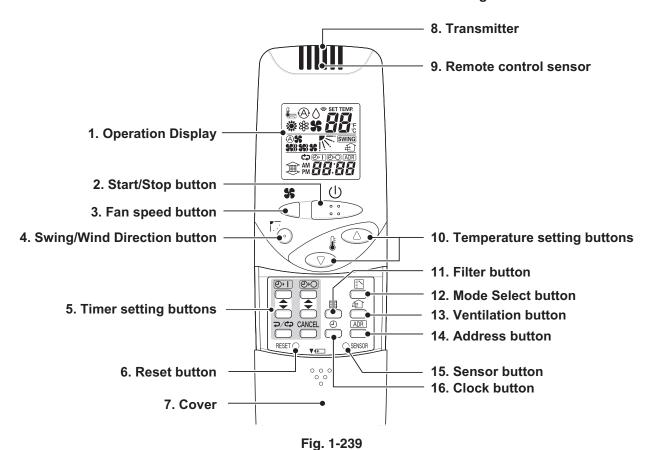


Table 1-16

	Lamp			
OPERATION lamp	TIMER lamp	STANDBY lamp	Bright	Cause of Trouble
•	•	•		No power supply or mis-wiring of signal receiving unit.
				S.C.* errors between the indoor unit's controller (PCB) and
\ODEP	•	•		signal receiving unit.
•	•	₽		S.C. errors between indoor and outdoor units.
•	₽	₽	Alternately	Indoor unit protector is activated.
≎	•	≎	Alternately	Outdoor unit protector is activated.
•	₽	•		Compressor protector is activated.
⇔	•	☼	Concurrent	Mis-setting of indoor unit.
₿	☆	₽	Concurrent	Mis-setting of outdoor unit.

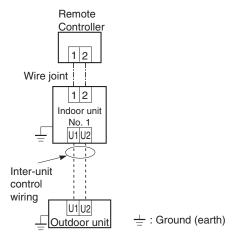
^{*} S.C.: Serial communications

7-24. Basic Wiring Diagram



CAUTION

Be sure to do the wiring correctly (incorrect wiring will damage the equipment).



 In case of using shielded wires for inter-unit control wiring, ground the shield on one side. (Fig. 1-240)
 Otherwise misoperation because of electrical noise may occur.

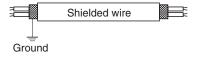


Fig. 1-240

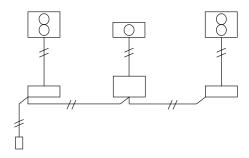
Wiring procedure

Carry out the wiring according to the above wiring diagram.

- Address setting is automatically executed after turning on the system.
 An indoor unit address is assigned to each indoor unit.
- Operation takes place successively at intervals of 1 second, by using combinations of the address setting of each unit.

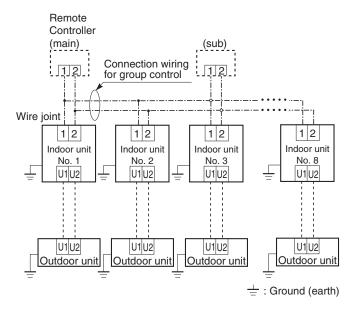
7-25. Wiring System Diagram for Group Control

This diagram shows when several units (maximum of 8) are controlled by a signal receiving unit (main unit). In this case, a signal receiving unit can be connected at any indoor unit.



• Group control using 2 signal receiving units

It does not matter which of the 2 signal receiving units you set as the main controller.



Wiring procedure

Wire according to the diagram at left:

- Address setting is executed automatically when the outdoor unit is turned on.
- Each successive unit will respond at one-second intervals following the order of the group address when the remote controller is operated.

When using multiple signal receiving units (up to 2 can be used), one is the main signal receiving unit and the other is the sub-signal receiving unit.

 To set up a sub-signal receiving unit, change its remote control address connector (RCU. ADR) located on its PCB from main to sub position (main: when shipped from factory).

7-26. Wiring System Diagram for Multiple Remote Controllers

• When installing multiple remote controllers

This multiple system is used for operating the unit(s) at different positions. (A maximum of 2 signal receiving units can be installed.)

Setting method

To execute this control, make the setting according to the following procedure.

- Of the two installed signal receiving units, make one the main signal receiving unit (factory-shipped state).
- (2) On the other signal receiving unit, change the address connector on the PCB from main to sub position.

In this state, it functions as a sub-signal receiving unit.

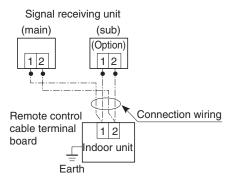
Basic wiring diagram



CAUTION

Carry out the wiring correctly (incorrect wiring will damage the equipment).

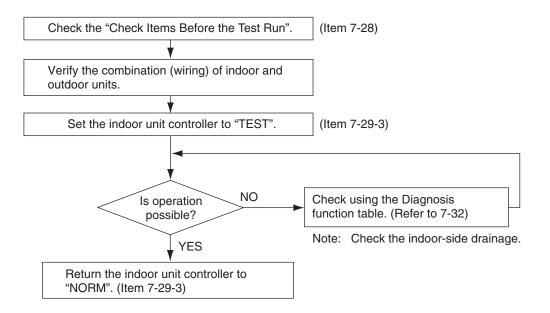
• To operate 1 indoor unit with 2 signal receiving units set at different locations.



<CZ-RWSK1U>

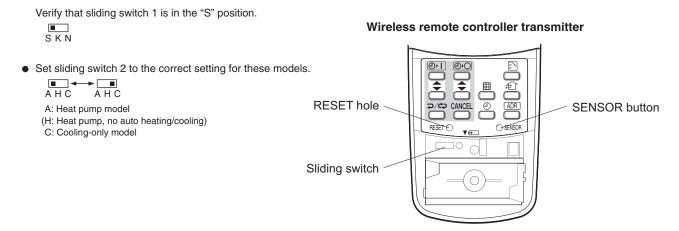
7-27. Test Run Procedure

Wall Mounted (Type K1)



7-28. Check Items Before the Test Run

- (1) Turn ON the remote power switch at least 12 hours before the test run in order to charge the crankcase heater.
- (2) Fully open the service valves on the gas-tube and liquid-tube sides.
- (3) Set the sliding switches on the inside of the wireless remote controller cover to the correct settings for that model. After changing the settings, press the RESET hole.



For S-26PK1U6

Controller

-OFF

TEST

Indicator

7-29. Preparing for the Test Run

7-29-1. Changing the room temperature sensor

- Room temperature sensors are installed inside the indoor unit and the wireless remote controller. Either room temperature sensor can be used.
- When "Unit Sensor" is indicated on the wireless remote controller's LCD, the indoor unit sensor is operating as the room temperature sensor.
 - To change to the remote control sensor, open the remote control cover and press the SENSOR button once. The "Unit Sensor" display disappears, and the remote control sensor becomes the room temperature sensor.



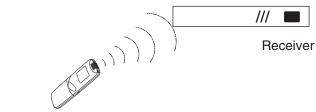
CAUTION

If the temperature data from the remote controller is not communicated to the indoor unit for a period of 10 minutes when the remote control sensor is selected, the unit automatically switches back to the indoor unit sensor.

Install the remote controller in a location where the signal can reliably be received by the indoor unit.

7-29-2. Using the remote controller

- Face the remote controller toward the receiver (indoor unit).
- The maximum distance where the remote controller signal can be received is approximately 26 ft., however this
 distance is only a guide. The actual distance may vary somewhat depending on battery capacity and other
 conditions.
- Make sure there are no obstructions which can block the signal between the remote controller and the receiver.
- When the remote controller signal is received correctly, the indoor unit beeps.
 (It beeps twice only when operation is started.)



Wireless Remote Controller

- Do not drop, throw, or wash the remote controller.
- Do not place the remote controller in a location exposed to direct sunlight, or near a stove or similar appliance.

7-29-3. Test Run

Using the controller

- (1) Slide the main unit controller switch from "ON" to "TEST". (The outdoor unit will not operate for approximately 3 minutes after the power is turned ON, or after operation is stopped.)
- (2) All indicator lamps on the display blink while test run is in progress.
- (3) Temperature control is not possible during the test run.
- (4) If normal operation is not possible, the lamps on the display will indicate the problem. Refer to "7-32. Diagnosis Table".
- (5) After the test run is completed, move the controller switch from "TEST" to "ON" and verify that the indicator lamps stop blinking.

(A 60-minute automatic OFF timer function is included in order to prevent continuous test run.)



CAUTION

- Do not use this setting at any time other than for the test run. Doing so will place an excessive load on the system.
- Test run is not possible if the power was turned ON when the controller switch was in the "TEST" position. Leave the power ON and move the switch to "OFF", then move the switch back to "TEST".

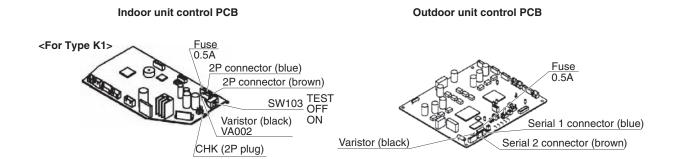
7-30. Precautions

- Request that the customer be present at the time the test run is performed. Explain the Operating Instructions to the customer, and then have the customer actually operate the system.
- Be sure to pass the manual and warranty certificate to the customer.
- Verify that the AC 208 / 230 V wiring is not connected to the terminal plate which is used to connect the inter-unit control wiring.

* If AC 208 / 230 V is accidentally applied to this terminal plate, the fuse (0.5A for both indoor and outdoor units) on the inter-unit control PCB will be tripped in order to protect the PCB. Correct the wiring connections, then disconnect the 2P connectors (indoor unit: blue, OC, CN40; outdoor unit: blue, OC) which are connected to the PCB and connect the other 2P connectors (indoor unit: brown, EMG, CN44; outdoor unit: brown, EMG). (See the figure below.)

If operation is still not possible with the brown connectors connected, cut the varistor (black) (for both the indoor and outdoor units).

(Be sure to turn OFF the power before performing this work.)

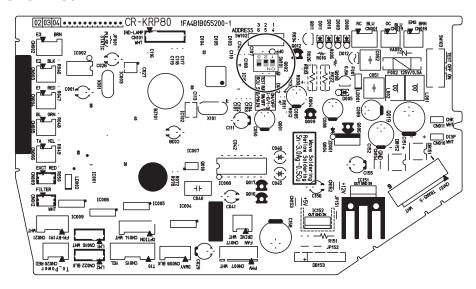


7-31. When Setting Indoor Unit Control PCB Switch for Wall Mounted Indoor Unit

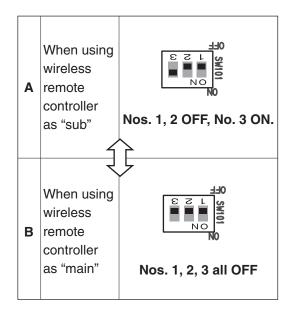
When using both the wired and wireless remote controller, refer to the procedure below.

- If this setting is not made correctly an alarm will occur. (The operation lamp on the display blinks.)
- This setting is not necessary for the case of using wireless remote controller only.
- The slide switch setting at the time of factory shipment for model Type K1 is "B".

● S-26PK1U6



- When using wired remote controller as "sub", to set its data to "sub" in remote controller setting mode.
- When using wireless remote controller as "sub", set the switch on the indoor unit control PCS to A.



7-32. Diagnosis Table

			Cause	ISE	
Wired remote spcontroller dilay	Indoor unit receiver lamp	1:1 connection (single type)	Group connection	Simultaneous-operation multi system (flexible combination)	Control by main-sub remote controllers
Nothing is displayed	Nothing is displayed	 Remote controller is not connected correctly. Indoor unit power is not ON. 	Remote controller is not connected with Same as at left indoor unit correctly Indoor unit power is not ON.	Same as at left	Same as at left
E 0 1 displayed		 Automatic address setting has not been completed. Inter-unit control wiring is cut or is not connected correctly. Remote controller is not connected correctly (remote controller receiving failure). 	Automatic address setting has not been Same as at left completed. Inter-unit control wiring is cut or is not connected correctly. Remote controller is not connected with indoor unit correctly.	Same as at left	Same as at left
E 0 2 displayed	Operating lamp is blinking.	 Remote controller is not connected correctly (failure in transmission from remote controller to indoor unit). 	 Remote controller is not connected with indoor unit correctly 	Same as at left	Same as at left
E 0 9 displayed					 2 remote controllers are set as the main remote controller.
E 1 4 displayed				 Control wiring for group control is cut or is not connected correctly. 	Same as at left
E 0 4 displayed		 Indoor-outdoor inter-unit wiring is not connected correctly. 	 Same as at left 	Same as at left	Same as at left
E 0 6 displayed	Standby lamp		 Indoor-outdoor inter-unit wiring is cut or is not connected correctly. 	Same as at left	Same as at left
E 1 5 displayed	ıs blinking.	 Indoor unit capacity is too low. 	Same as at left	•Same as at left	Same as at left
E 1 6 displayed		 Indoor unit capacity is too high. 			
E 2 0 displayed		 No serial signal is being received at all from the indoor units. 			
P 0 5 displayed	Operation lamp and Standby lamp are blinking alternately.	 Inter-unit circuit or open phase in the outdoor unit power Insufficient gas 	 Reversed phase or open phase in the 3-phase power at one of the outdoor units in the group 	 Reversed phase or open phase in the outdoor unit 3-phase power 	Same as at left
L 0 2 displayed L 1 3 displayed	Both the Operation lamp and Standby	 Indoor-outdoor unit type mismatch 	• Same as at left	Same as at left	
L 0 7 displayed				 Control wiring for group control is connected to the indoor unit, however it is set for individual operation. 	Same as at left
P 0 9 displayed	Timer lamp and Standby lamp are blinking alternately.	 The indoor unit ceiling panel connector is not connected correctly. 	Ceiling panel connector at one of the indoor units in the group is not connected correctly.	 Indoor unit ceiling panel connector is not connected correctly. 	Same as at left

8. HOW TO INSTALL THE TIMER WIRED REMOTE CONTROLLER



Refer to the Instruction Manual attached to the Timer Remote Controller.

2

2. PROCESSES AND FUNCTIONS

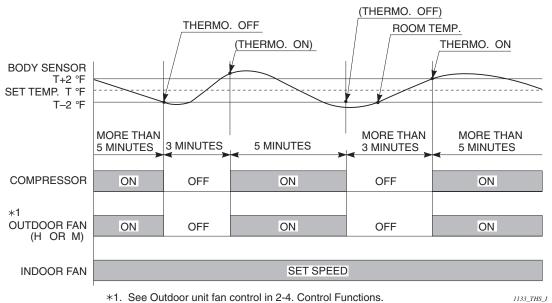
2-1.	Room Temperature Control	2-2
	Cold Draft Prevention (Heating Cycle)	
	Automatic Fan Speed (Indoor Unit)	
	Control Functions	
2-5.	Outdoor Unit Control PCB	2-9
	Outdoor Unit Control PCB (CR-CH4272R)2	

2-1. Room Temperature Control

The unit adjusts room temperature by turning the outdoor unit's compressor ON and OFF. This process is controlled by the **thermostat** located in the remote control unit.

The figures on this and the next pages show how each part of the system performs when the room temperature changes and the thermostat activates the compressor to start (thermo ON) or stop (thermo OFF). Fig. 1 shows about the cooling cycle, and Fig. 2 shows about the heating cycle.

(A) Cooling



*1. See Outdoor unit fan control in 2-4. Control Functions.

Fig. 1

Chart Summary and Explanations

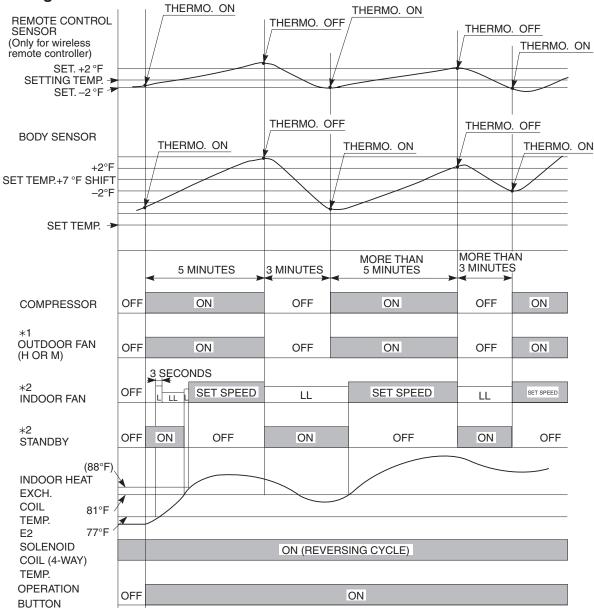
- Once the compressor **starts**, it keeps running for 5 minutes.
- Once the compressor **stops**, it will not start running again for 3 minutes.
- If you change the operation mode (HEAT, COOL or FAN) during the heating cycle, the control circuit **stops** the compressor for 3 minutes.
- For 5 minutes after the compressor is first turned on, and for 3 minutes after it is turned off, the compressor is not controlled by the room sensor.
- Thermo ON: When room temperature rises 2 F (4°F when set on body sensor) above the set temperature T°, (T°+2°F or T°+4°F when set on body sensor):

Compressor → ON

Thermo OFF: When the room temperature is $-2^{\circ}F$ below the set temperature T° :

Compressor → OFF

(B) Heating



- *1. See Outdoor unit fan control in 2-4. Control Functions.
- *2. See 2-2 Cold Draft Prevention (Heating Cycle)

1134_THS_I

Fig. 2

Chart Summary and Explanations

- ☐ Once the compressor **starts**, it keeps running for 5 minutes.
- Once the compressor **stops**, it will not start running again for 3 minutes.
- ☐ If you change the operation mode (**HEAT**, **COOL** or **FAN**) during the heating cycle, the control circuit **stops** the compressor for **3 minutes**.
- ☐ For 5 minutes after the compressor is first turned on, and for 3 minutes after it is turned off, the compressor is not controlled by the room sensor.

When set on remote control sensor

Thermo ON: When room temperature is $-2^{\circ}F$ below the set temperature T° .

Compressor → ON

Thermo OFF: When the room temperature is $2^{\circ}F$ above the set temperature T° , $(T^{\circ}+2^{\circ}F)$

Compressor → OFF

When set on body sensor

NOTE: In case of Body sensor, operating temperature is shifted to setting temperature +7°F.

2-2. Cold Draft Prevention (Heating Cycle)

The cold draft prevention function controls indoor fan speed so a strong draft of cold air will not blow out before the indoor heat exchange coils have warmed up.

- □ STANDBY shows on the remote controller when the indoor fan speed is LL (very low) or OFF. This condition occurs in the following 3 cases:
 - During Thermo OFF (refer to 2-1 B. Room Temperature Control, Heating)
 - During the defrosting operation (refer to the section "Defrost Control" on page 2-8)
 - Until either the coil temperature E2 reaches 72°F(Type F2, T2) or 68°F(Type U2) or 81°F(Type U1,K1,T1,F1, K2) or when a maximum of 6 minutes have passed.
- ☐ The indoor fan motor operates in L instead of LL for 3 seconds as it starts to give the fan an initial boost.

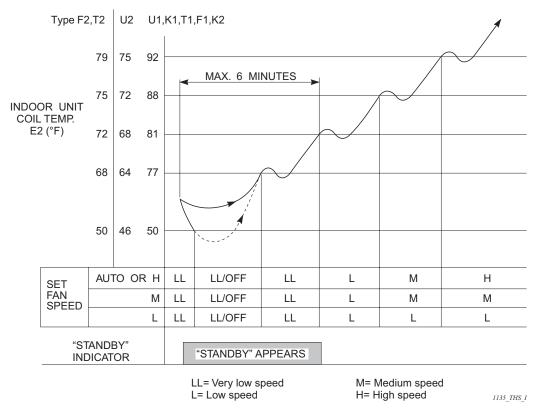


Fig. 3

Chart Summary and Explanations

- ☐ The main idea of this chart is to show that the indoor fan speed increases and gets closer to the set fan speed as the coil temperature E2 rises.
- ☐ The indoor unit's coil temperature is taken from sensor E2 located in the middle of the indoor heat exchange coil.
- ☐ The dotted line shows that the indoor fan motor is OFF. When the temperature at sensor E2 falls below 50 °F, the indoor fan motor stops running.

2

2-3. Automatic Fan Speed (Indoor Unit)

By pressing the FAN SPEED button on the remote controller, the fan speed can be set at one of four steps: AUTO., HI., MED., or LO. When set at AUTO. the indoor unit fan speed will be automatically adjusted to the room temperature as the two charts shown below.

(A) Cooling

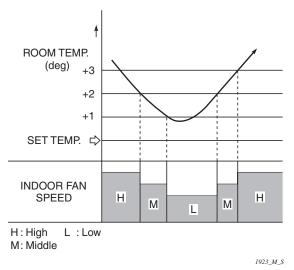


Fig. 4

Chart Explanations and notes

When the fan speed changes, it keeps the speed step for at least 3 minutes, even if the temperature changes to another speed step during the time.

(B) Heating

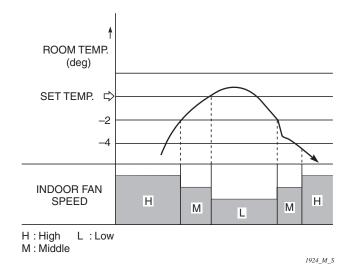


Fig. 5

Chart Explanations and notes

When the fan speed changes, it keeps the speed step for at least 1 minute, even if the temperature changes to another speed step during the time.

2-4. Control Functions

Electronic control valve control

Opening of the electronic control valve is controlled so that the appropriate operating conditions are maintained, based on the signal from each sensor (discharge temperature [TD], intake temperature [TS], outdoor heat exchanger temperature [E1, E2]).

Discharge temperature release control

- (1) This control lowers the operating frequency of the compressor when electronic control valve control is unable to maintain the appropriate operating conditions because the discharge temperature fails to decline or because there is a sudden increase in the discharge temperature.
- (2) If the discharge temperature exceeds 232°F, the compressor is stopped and then restarted. (Error count = 1)
- (3) The error count is cleared when operation has continued for 10 minutes after the compressor was restarted.
- (4) If (2) repeats 4 times without the error count being cleared (error count = 4), alarm "P03" occurs.

Current release control

The compressor operating frequency is controlled so that the current that is input to the inverter compressor does not exceed the designated value (control value).

Outdoor unit fan control

- 1. Cooling fan control
- (1) The outdoor unit fan minimum speed and maximum speed are determined according to the outdoor air temperature and the operating frequency. The speed is controlled in stages between the minimum speed and maximum speed, based on the outdoor heat exchanger temperature (C2) at that time.
- (2) For 60 seconds after start, the outdoor unit fan operates at maximum speed, as determined by the outdoor air temperature and operating frequency at that time. Subsequently, the fan operates at low speed until the outdoor heat exchanger temperature (C2) rises.
- (3) If the discharge temperature (TD) sensor is abnormal or has become disconnected, the fan will not operate and a protective device is activated.

2. Heating fan control

(1) The outdoor unit fan minimum speed and maximum speed are determined according to the outdoor air temperature and operating frequency. The speed is controlled in stages between the minimum speed and maximum speed, based on the outdoor heat exchanger temperature (C1) at that time.

- (2) If the outdoor heat exchanger temperature (C1) is 75°F or higher continuously for 5 minutes, fan operation may stop (same conditions as when the thermostat is OFF). In this case, the fan will restart after 3 minutes.
- (3) This control is not performed during the 3 minutes after start, for 1 minute after defrost ends, and while defrost is in progress.

Coil heating control

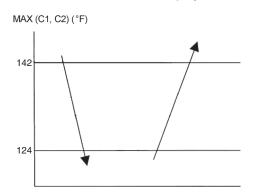
- (1) This control applies current to the coil of the stopped compressor to heat the compressor in place of the crank case heater.
- (2) When the discharge temperature (TD) is less than 77°F, the current application judgment is made based on the outdoor air temperature (TO).
 - Current application starts when the outdoor air temperature drops to 59°F or below.
 - Current application stops when the outdoor air temperature rises above 64°F.

Control for prevention of short intermittent operation

In order to protect the compressor, this control does not allow the compressor to be stopped for 10 minutes after operation starts, even if the thermostat OFF signal is received from the indoor unit.

Control for prevention of high cooling loads This control reduces abnormal high-pressure increases during cooling operation.

- (1) If MAX (C1, C2) (C1 & C2: outdoor heat exchanger temperature) is less than 124°F, the compressor performs normal operation.
- (2) If MAX (C1, C2) is 124°F or higher and less than 142°F, the revolution of the compressor is controlled to prevent the high pressure being increased.
- (3) If MAX (C1, C2) is 142°F or higher, the compressor stops once. The compressor restarts three times, and if the temperature dose not decrease to less than 142°F, the alert "P20" is displayed.



Overcurrent protection control

- If the overcurrent protection circuit detects abnormal current, the compressor is stopped. (Error count = 1.) The compressor then restarts after 3 minutes.
- (2) If compressor start/stop is repeated 4 times (error count = 4), alarm "P26", "P29" or "H01" (count = 2 in this case only) occurs. Operation stops and does not restart.

Current release value shift control

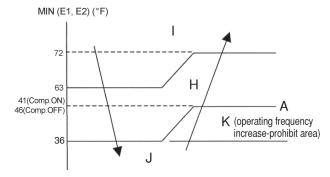
60 – 98% for heating operation.

- (1) This control is intended to improve compressor reliability by preventing continuous high-frequency operation under overload conditions when the outdoor air temperature is high, and by preventing intermittent operation through "control for prevention of high cooling loads".
- (2) The control value for "current release control" is corrected according to the outdoor air temperature (TO). Depending on the temperature, the control value is lowered to 50 – 90% for cooling operation, and to

Freeze prevention (low-temperature release) control

The below control is performed during cooling operation (including dehumidifying operation), using whichever of the indoor heat exchanger temperatures (E1 or E2) is lower. (See the figure below.)

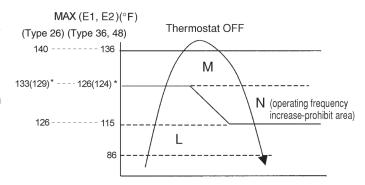
- (1) If a temperature in the "J" area (operating frequency reduction and thermostat OFF area) is detected for 6 minutes, the compressor operating frequency is reduced. The compressor operating frequency is reduced every 30 seconds as long as the temperature remains within this area.
- (2) If the temperature is in the "K" area (operating frequency increase-prohibit area), the compressor operating frequency is maintained.
- (3) If the temperature is in the "H" area (operating frequency control area), and the outdoor air temperature is less than 90°F, the compressor maximum operating frequency is limited according to the indoor unit fan speed.
- (4) If the temperature is in the "I" area (normal operating area), the compressors operate normally.
- (5) If the temperature is continuously in the "J" area and the compressor operating frequency reaches 0, then temperature A (temperature for changing from "J" area to "H" area) is raised from 41°F to 46°F, and operation continues with the thermostat OFF until the temperature reaches the "H" area.



Heating high-load control

The below control is performed during heating operation, based on the indoor heat exchanger temperature MAX (E1,E2).

- (1) If the temperature is in the "M" area (operating frequency reduction and thermostat OFF area), the compressor operating frequency is reduced. The compressor operating frequency is reduced every 30 seconds as long as the temperature remains within this area.
- (2) If the temperature is continuously in the "M" area, the thermostat turns OFF.
- (3) If the temperature is in the "N" area, operating frequency increases are prohibited.
- (4) If the temperature is in the "L" area, the operating frequency is raised to the original frequency (the frequency prior to frequency reduction) by 6 Hz every 60 seconds.

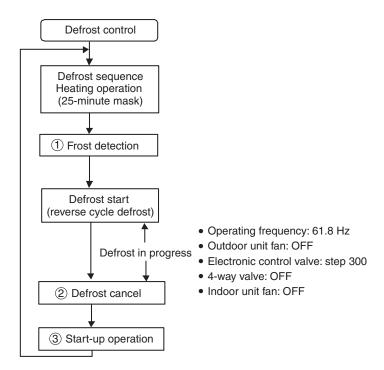


* When the compressor turns ON and the E2 temperature rises, the temperature at which the "M" area is first entered is 124°F (Type 36, 42) or higher than 129°F (Type 26).

If the E1, E2 temperature subsequently falls to the "L" area, the temperature for entering the "M" area is raised to 126°F (Type 36, 42) or 133°F (Type 26).

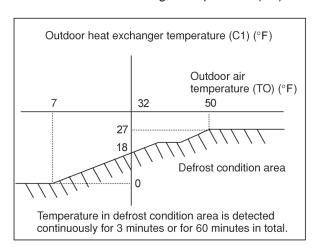
However if the E1, E2 temperature falls to the "L" area and falls below 86°F, then the temperature for entering the "M" area is changed back to 124°F (Type 36, 42) or 129°F (Type 26).

Defrost control



Frost detection

1. Outdoor heat exchanger temperature (C1) method (15-minute mask after operation start)



- 2. Outdoor air temperature is 7°F or above and outdoor heat exchanger temperature (C1) of 0°F or below is detected continuously for 20 seconds.
- 3. Outdoor air temperature is below 7°F and outdoor heat exchanger temperature (C1) of below (outdoor air temperature -10°F) is detected continuously for 20 seconds.

(2) Defrost cancel

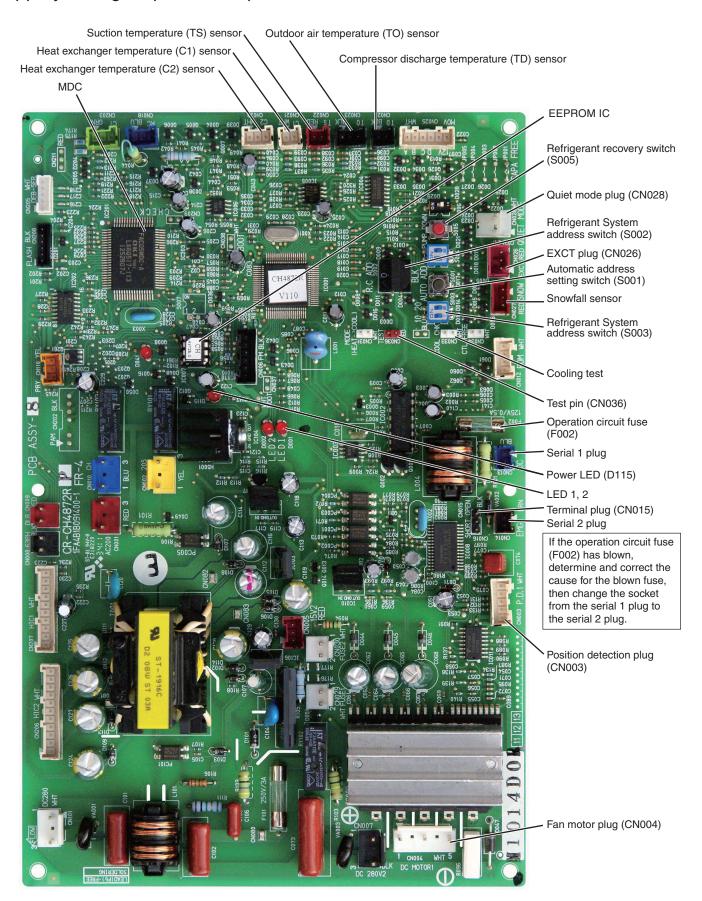
- Defrost end conditions
- 1. Outdoor heat exchanger temperature (C1) rises to 54°F or higher.
- 2. Outdoor heat exchanger temperature is 45°F or higher continuously for 1 minute.
- 3. Defrost time of 10 minutes has elapsed.

(3) Startup operation

After defrost ends, the compressors and outdoor unit fan stop for approximately 40 seconds, then operation begins in heating mode.

2-5. Outdoor Unit Control PCB

(1) Layout Diagram (CR-CH4872R)



2-6. Outdoor Unit Control PCB (CR-CH4272R)

(1) Explanation of Functions

S001	Push-button switch (black): Automatic address setting switch • If the system address switch (S002: set to 0 at time of shipment) setting is other than "0" (central control), press this switch once to automatically set the addresses at all indoor units which are in the same system, and are connected to that outdoor unit. During automatic address setting, the 2 LEDs (red) on the outdoor unit control PCB blink alternately. (Pressing this switch again stops automatic address setting.) • If automatic address setting is currently in progress at another system that is subject to central control, only LED 1 on the outdoor unit control PCB blinks to indicate that automatic address setting is in progress at another unit. If automatic address setting is in progress at another unit, automatic address setting cannot be started at this unit, even if S001 is pressed.
S002	 Rotary switch (10 positions, black): System address setting switch This switch is set to 0 (1 system control) at the time of shipment. However the address for each system must be set when multiple systems are controlled or when central control is used. (Figure 1) If the system address is set to 0, automatic address setting is started when the power is turned ON. Therefore it is not necessary to use switch SW01 and perform automatic address setting in the case of single or simultaneous-operation multi control of a single system. When using central control for multiple systems, a maximum of 30 systems (maximum 64 units) can be connected. In the case of group control or central control, set the system address to a setting other than 0 (1 or above). If the number of systems is greater than 9, this switch can be used in combination with DIP switch S003 to set up to 30 systems. The setting can be made as high as 39, however all settings above 30 are handled as 30 for control. (For details, refer to Table 1.) If system addresses are duplicated (the same address exists more than once), LED 1 on the outdoor unit control PCB lights up, and alarm "L04" is displayed on the remote controller.
S003	DIP switch (2P, blue): System address 10s-digit and 20s-digit place setting switch • When setting 10 systems or more, set this switch in combination with S002.
	 For 10 – 19 systems, set 1P (10s-digit place) to ON. For 20 – 29 systems, set 2P (20s-digit place) to ON, and set 1P (10s-digit place) to OF F. For 30 systems, set both 1P (10s-digit place) and 2P (20s-digit place) to ON. (For details, refer to Table 1.)
S005	 For 20 – 29 systems, set 2P (20s-digit place) to ON, and set 1P (10s-digit place) to OF F. For 30 systems, set both 1P (10s-digit place) and 2P (20s-digit place) to ON. (For details,
S005 Test (CN036)	 For 20 – 29 systems, set 2P (20s-digit place) to ON, and set 1P (10s-digit place) to OFF. For 30 systems, set both 1P (10s-digit place) and 2P (20s-digit place) to ON. (For details, refer to Table 1.) Refrigerant recovery switch (red button switch) Press this switch to perform refrigerant recovery control using cooling operation. The indoor unit fan will operate at HIGH and 55 Hz for a maximum of 10 minutes. When refrigerant recovery is completed, close the valves and press this switch to stop the
	 For 20 – 29 systems, set 2P (20s-digit place) to ON, and set 1P (10s-digit place) to OF F. For 30 systems, set both 1P (10s-digit place) and 2P (20s-digit place) to ON. (For details, refer to Table 1.) Refrigerant recovery switch (red button switch) Press this switch to perform refrigerant recovery control using cooling operation. The indoor unit fan will operate at HIGH and 55 Hz for a maximum of 10 minutes. When refrigerant recovery is completed, close the valves and press this switch to stop the operation.
Test (CN036)	 For 20 – 29 systems, set 2P (20s-digit place) to ON, and set 1P (10s-digit place) to OF F. For 30 systems, set both 1P (10s-digit place) and 2P (20s-digit place) to ON. (For details, refer to Table 1.) Refrigerant recovery switch (red button switch) Press this switch to perform refrigerant recovery control using cooling operation. The indoor unit fan will operate at HIGH and 55 Hz for a maximum of 10 minutes. When refrigerant recovery is completed, close the valves and press this switch to stop the operation. 2P plug (red): Pin used for PCB inspection at the factory 3P plug (red): Can be used for demand control The operating ranges are shown in the table.
Test (CN036)	 For 20 – 29 systems, set 2P (20s-digit place) to ON, and set 1P (10s-digit place) to OF F. For 30 systems, set both 1P (10s-digit place) and 2P (20s-digit place) to ON. (For details, refer to Table 1.) Refrigerant recovery switch (red button switch) Press this switch to perform refrigerant recovery control using cooling operation. The indoor unit fan will operate at HIGH and 55 Hz for a maximum of 10 minutes. When refrigerant recovery is completed, close the valves and press this switch to stop the operation. 2P plug (red): Pin used for PCB inspection at the factory 3P plug (red): Can be used for demand control The operating ranges are shown in the table.
Test (CN036)	 For 20 – 29 systems, set 2P (20s-digit place) to ON, and set 1P (10s-digit place) to OF F. For 30 systems, set both 1P (10s-digit place) and 2P (20s-digit place) to ON. (For details, refer to Table 1.) Refrigerant recovery switch (red button switch) Press this switch to perform refrigerant recovery control using cooling operation. The indoor unit fan will operate at HIGH and 55 Hz for a maximum of 10 minutes. When refrigerant recovery is completed, close the valves and press this switch to stop the operation. 2P plug (red): Pin used for PCB inspection at the factory 3P plug (red): Can be used for demand control The operating ranges are shown in the table. Short-circuited Operating range 0 0 normal (at shipment from factory)
Test (CN036)	 For 20 – 29 systems, set 2P (20s-digit place) to ON, and set 1P (10s-digit place) to OFF. For 30 systems, set both 1P (10s-digit place) and 2P (20s-digit place) to ON. (For details, refer to Table 1.) Refrigerant recovery switch (red button switch) Press this switch to perform refrigerant recovery control using cooling operation. The indoor unit fan will operate at HIGH and 55 Hz for a maximum of 10 minutes. When refrigerant recovery is completed, close the valves and press this switch to stop the operation. 2P plug (red): Pin used for PCB inspection at the factory 3P plug (red): Can be used for demand control The operating ranges are shown in the table.

Terminal plug (CN015)

3P plug (black): Terminal plug for the communications line

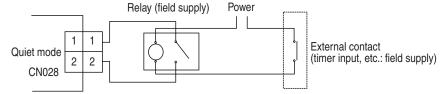
- At the time of shipment from the factory, the short-circuiting socket (2P, black) is installed between pins 1 and 2 on the terminal plug (terminal = yes).
- When central control is used for multiple systems, leave the short-circuiting socket in
 place only on the outdoor unit with a system address of 1. At all other outdoor units
 (other than unit No. 1), move the short-circuiting socket to between 2 and 3 (terminal =
 no). If multiple short-circuiting sockets remain in place during central control, a communications failure will occur.
- In the case of a single system only (system address = 0), do not remove the short-circuiting socket. (Alarm "E04" will occur.)

Quiet mode (CN028)

2P plug (white): Enables operation in quiet mode.

- The outdoor unit fan and compressor frequencies are subject to limits during operation.
- Low-noise operation is enabled when the relay is turned ON.

Example of wiring



Outdoor unit control PCB

Note 1: The maximum length of the wiring between the outdoor unit PCB and the relay is 2 m.

- Lead wire with 2P plug (special-order part: WIRE K/ CV6231612098)
- Relay, field supply, contact input specifications: DC 5 V, 0.5 mA (Recommended relay: Fuji Electric HH62SW, compatible with micro contacts)
- Use a commercially available timer (such as the Omron H5 daily time switch).

Table 1. Method of System Address Setting

[S002 (rotary, black), S003 (2P DIP switch, green or blue)]

	Outdoor system	S002 setting	S003 setting	
	address No.	(system address switch)	1P (10s-digit place)	2P (20s-digit place)
1 system only	1	0	OFF	OFF
	1	1	OFF	OFF
	2	2	OFF	OFF
	3	3	OFF	OFF
	4	4	OFF	OFF
	5	5	OFF	OFF
	6	6	OFF	OFF
	7	7	OFF	OFF
	8	8	OFF	OFF
	9	9	OFF	OFF
	10	0	ON	OFF
	11	1	ON	OFF
Control	12	2	ON	OFF
Central	13	3	ON	OFF
COLLIGI	14	4	ON	OFF
	15	5	ON	OFF
	16	6	ON	OFF
	17	7	ON	OFF
	18	8	ON	OFF
	19	9	ON	OFF
	20	0	OFF	ON
	21	1	OFF	ON
	22	2	OFF	ON
	23	3	OFF	ON
	24	4	OFF	ON
	25	5	OFF	ON
	26	6	OFF	ON
	27	7	OFF	ON
	28	8	OFF	ON
	29	9	OFF	ON
	30	0	ON	ON

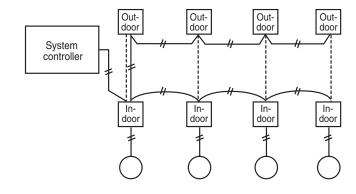


Fig. 6

- MEMO -

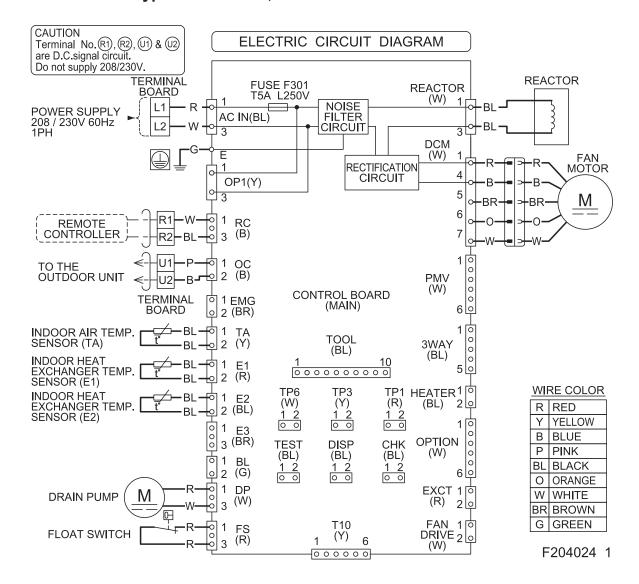
3

3. ELECTRICAL DATA

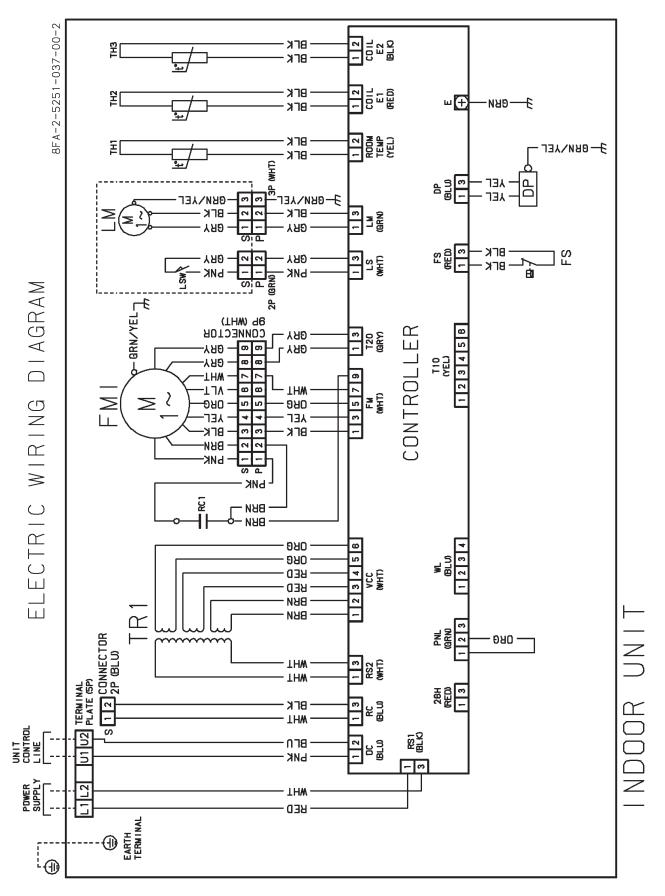
3-1. Indoor Units		3-	2
3-2. Outdoor Units	3	-1	4

3-1. Indoor Units

Concealed Duct Type: S-26PF2U6, S-36PF2U6

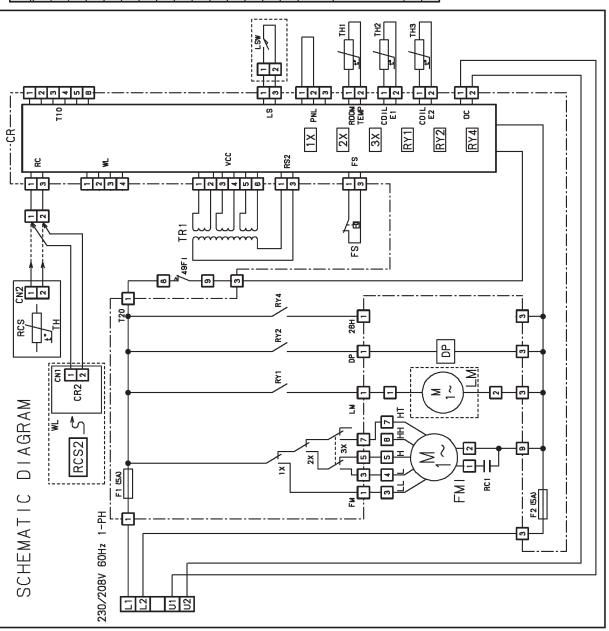


4-Way Cassette Type: S-26PU1U6, S-36PU1U6, S-42PU1U6

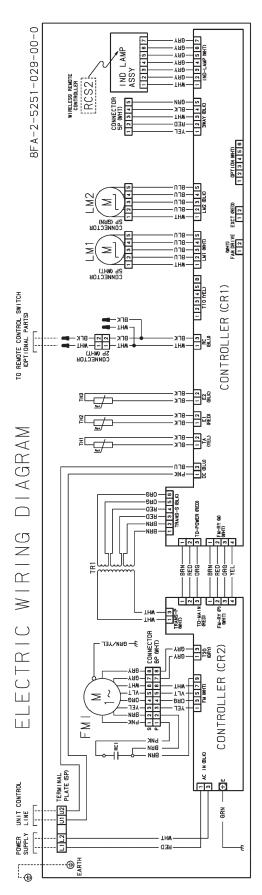


4-Way Cassette Type: S-26PU1U6, S-36PU1U6, S-42PU1U6

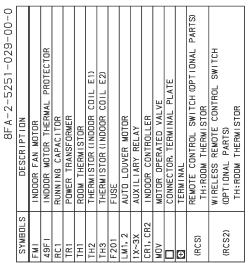
	8FA-2-5251-037-00-2
SYMBOLS	DESCRIPTION
FMI	INDOOR FAN MOTOR
49F I	INDOOR MOTOR THERMAL PROTECTOR
RC1	RUNNING CAPACITOR
TR1	POWER TRANSFORMER
DP	DRAIN PUMP
FS	FLOAT SWITCH
TH1	ROOM THERMISTOR
TH2	THERMISTOR (INDOOR COIL E1)
EHL	THERMISTOR (INDOOR COIL E2)
F1, F2	FUSE
1X-3X	AUXILIARY RELAY
RY1, 2, 4	AUXILIARY RELAY
CR	INDOOR CONTROLLER
(MST)	LIMIT SWITCH (OPTIONAL PARTS)
(LM)	AUTO LOUVER MOTOR (OPTIONAL PARTS)
RCS	REMOTE CONTROL SWITCH TH:ROOM THERMISTOR
7 1/1/	(OPTIONAL PARTS)
	CR2:WIRELESS CONTROLLER
	RCS2:WIRELESS REMOTE CONTROLLER
	CONNECTOR, TERMINAL PLATE
	TERMINAL

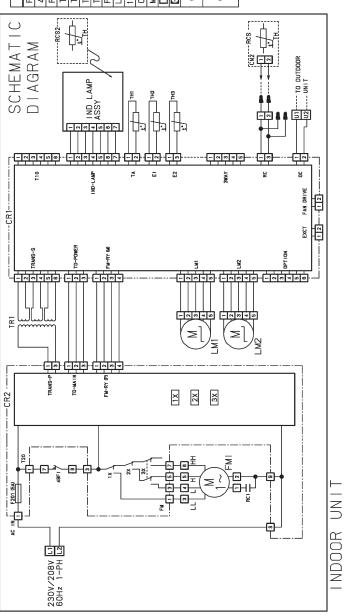


Wall Mounted Type: S-26PK1U6

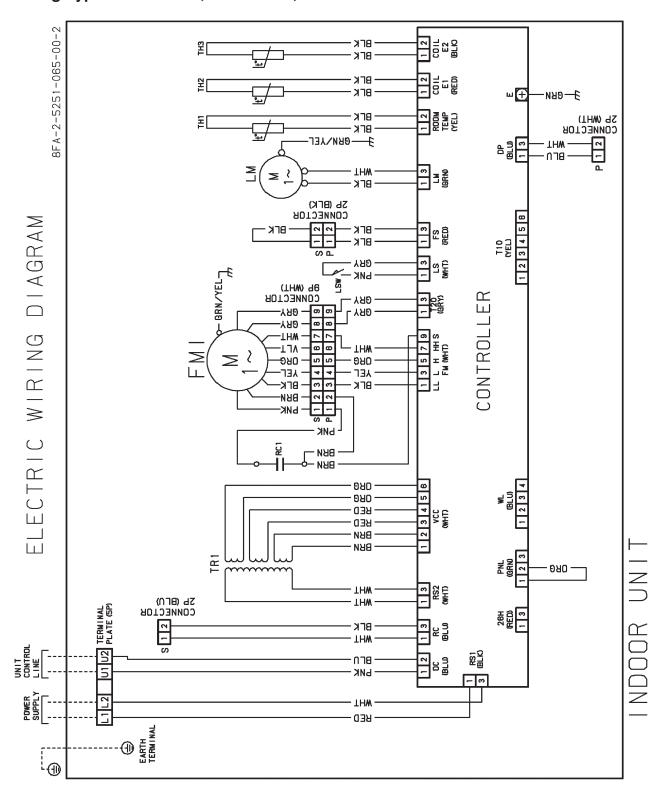


Wall Mounted Type: S-26PK1U6



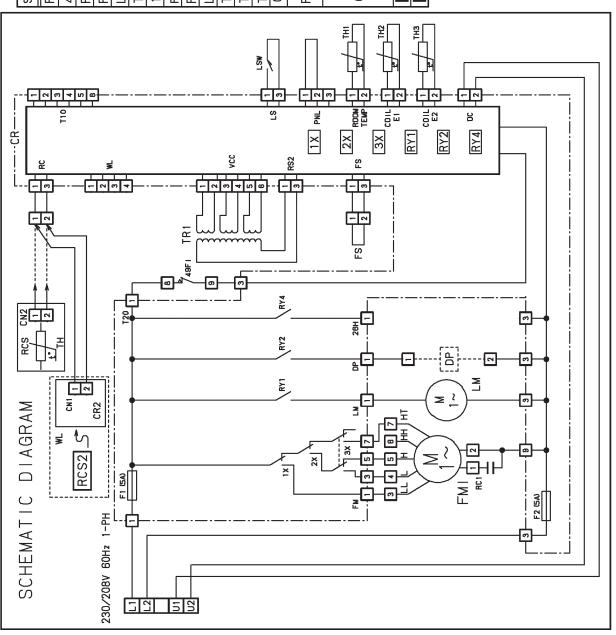


Ceiling Type: S-26PT1U6, S-36PT1U6, S-42PT1U6

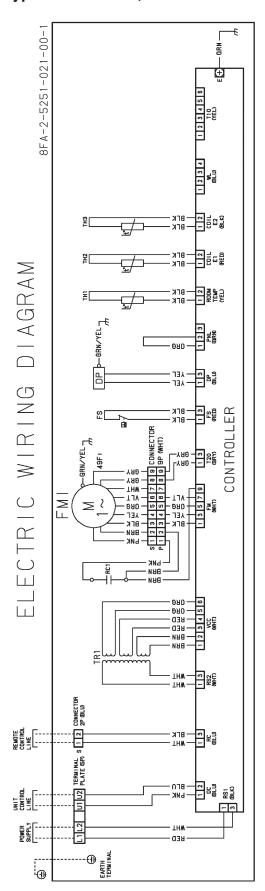


Ceiling Type: S-26PT1U6, S-36PT1U6, S-42PT1U6

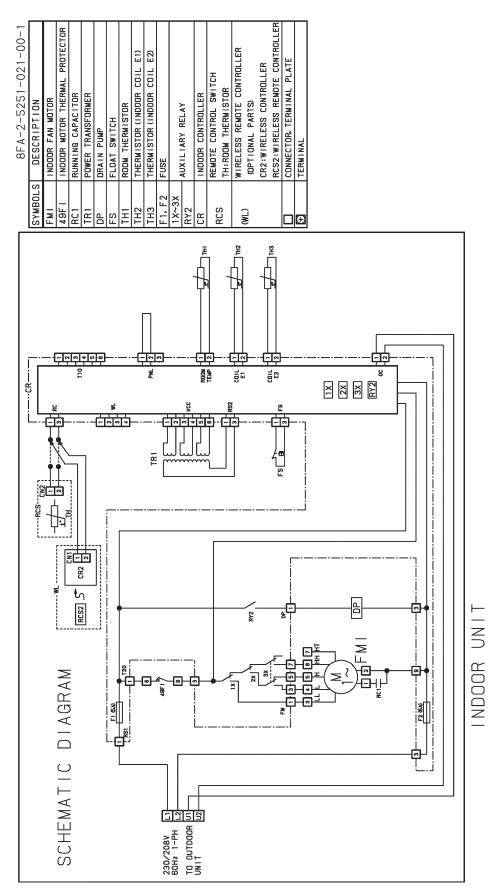
	8FA-2-5251-065-00-2
SYMBOLS	DESCRIPTION
FMI	INDOOR FAN MOTOR
19F I	INDOOR MOTOR THERMAL PROTECTOR
RC1	RUNNING CAPACITOR
F1, F2	FUSE
MЫ	AUTO LOUVER MOTOR
TR1	POWER TRANSFORMER
1X-3X	AUXILIARY RELAY
RY1, 2, 4	AUXILIARY RELAY
FS	FLOAT SWITCH
MST	LIMIT SWITCH
TH1	ROOM THERMISTOR
TH2	THERMISTOR (INDOOR COIL E1)
TH3	THERMISTOR (INDOOR COIL E2)
CR	INDOOR CONTROLLER
RCS	REMOTE CONTROL SWITCH TH:RDOM THERMISTOR
	WIRELESS REMOTE CONTROLLER (OPTIONAL PARTS)
(ML)	CR2:WIRELESS CONTROLLER RCS2:WIRELESS REMOTE CONTROLLER
	CONNECTOR, TERMINAL PLATE
+	TERMINAL



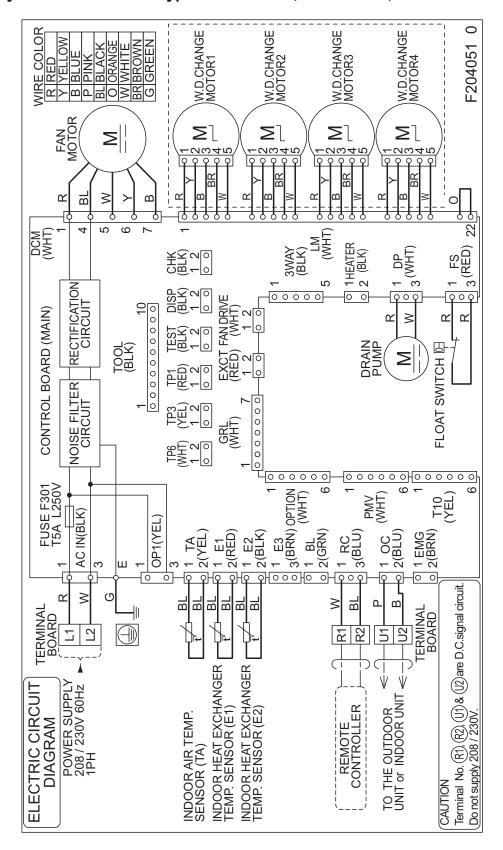
Low Silhouette Ducted Type: S-26PF1U6, S-36PF1U6



Low Silhouette Ducted Type: S-26PF1U6, S-36PF1U6

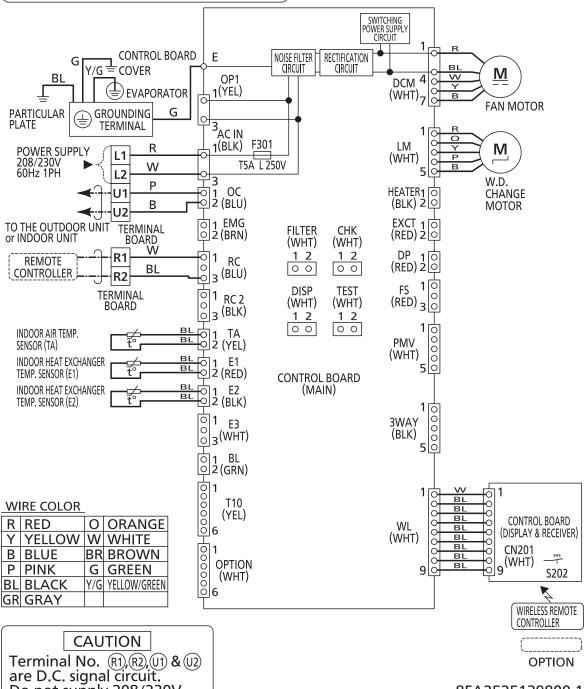


4-Way Cassette 36"×36" Type: S-26PU2U6, S-36PU2U6, S-42PU2U6



ELECTRIC CIRCUIT DIAGRAM CONTROL BOARD Ε

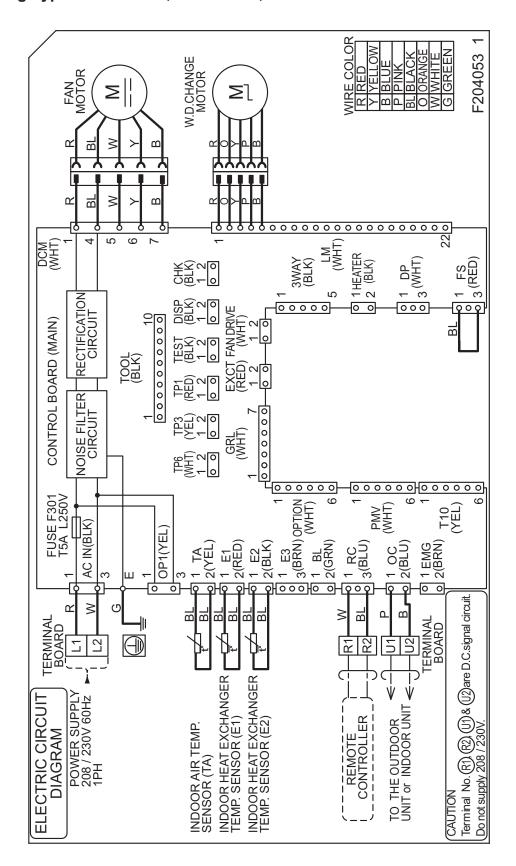
Wall Mounted Type: S-26PK2U6



Do not supply 208/230V.

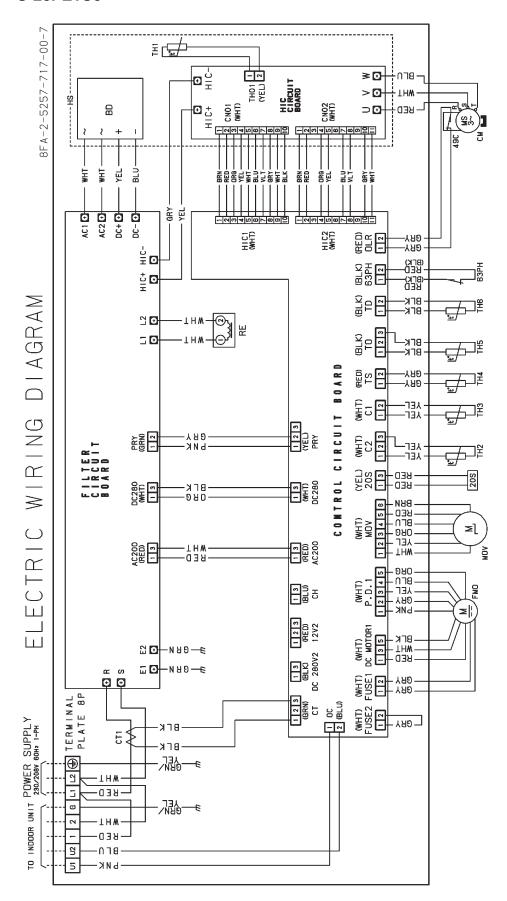
8FA2525139800 1

Ceiling Type: S-26PT2U6, S-36PT2U6, S-42PT2U6

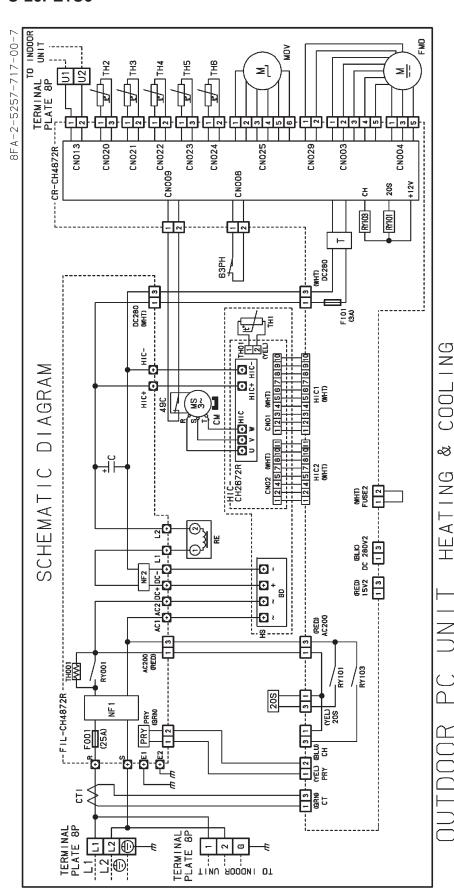


3-2. Outdoor Units

U-26PE1U6



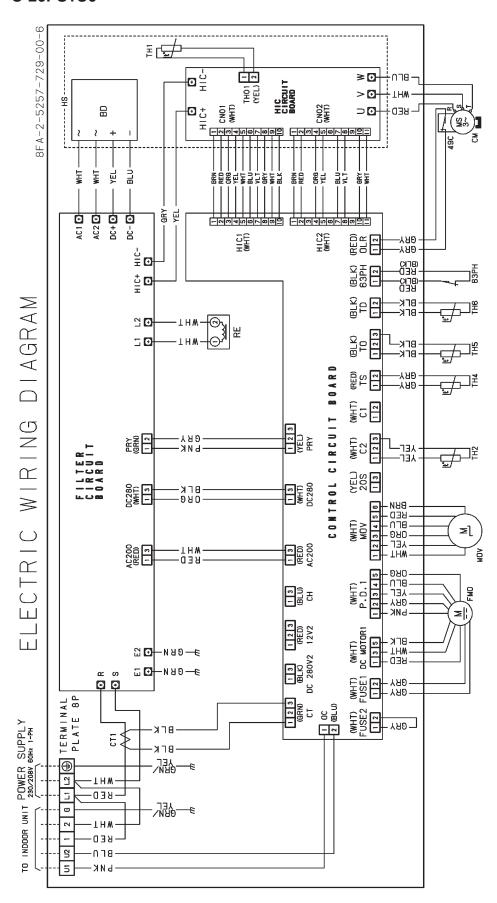
U-26PE1U6



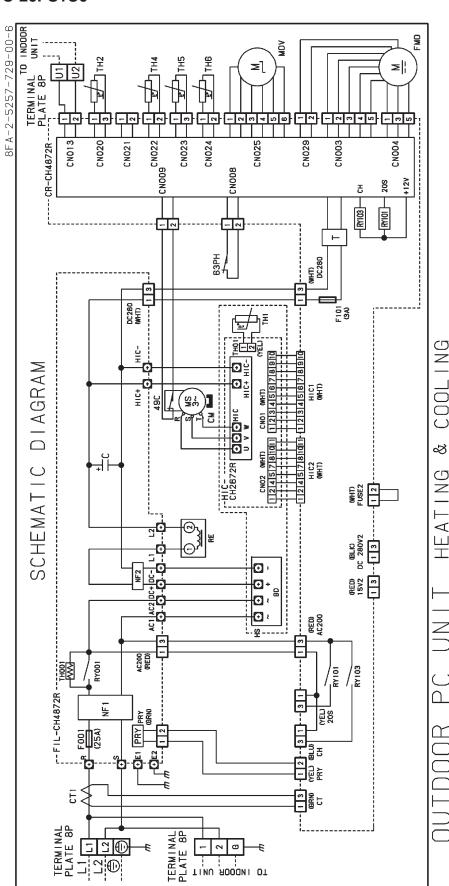
HIC CIRCUIT BOARD DESCRIPTION THERMISTOR TERMINAL HIC-CH2672R SYMBOLS CONTROL CIRCUIT BOARD FIL-CH4872R FILTER CIRCUIT BOARD DESCRIPTION RY001, 101, 103 RELAY CR-CH4872R SYMBOLS HEAT SINK (RADIATOR) DESCRIPTION BRIDGE DIODE TRANSFORMER HYBRID IC SYMBOLS H 움 앞 OPERATION CIRCUIT FUSE ELECTROLYTIC CAPACITOR MOTOR OPERATED VALVE DESCRIPTION NOISE FILTER REACTOR F001, 101 SYMBOLS NF1, 2 ΜO 문 ပ HIGH PRESSURE SWITCH OUTDOOR FAN MOTOR DESCRIPTION COMPRESSOR MOTOR FOUR WAY VALVE WARN SYMBOLS 63РН 208 FINO 49C S

SHOCK. THE L.E.D.S ON ELECTRIC BY AN TURN OFF THE MAIN POWER SUPPLY SWITCH WHEN CHANGING P.C.B.. CONFIRM ALL KILLED P.C.B. ARE OFF AND START TO REWORK. OTHERWISE YOU MAY BE

U-26PS1U6



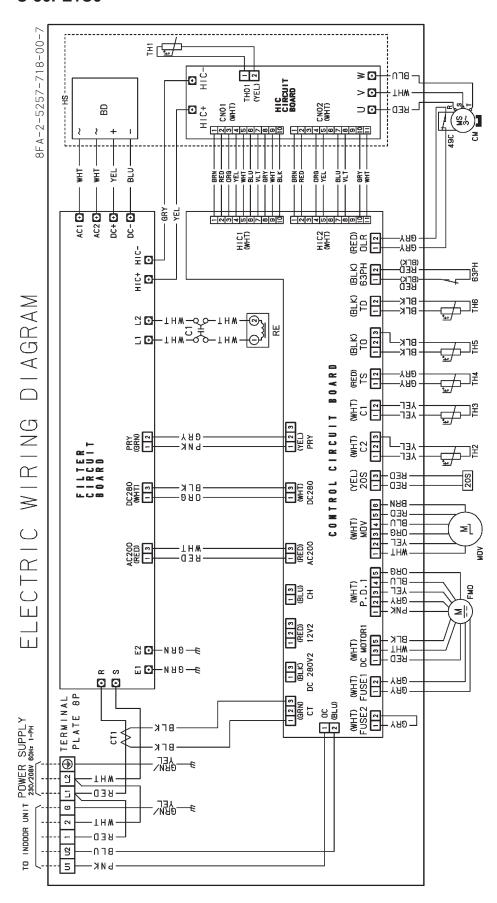
U-26PS1U6



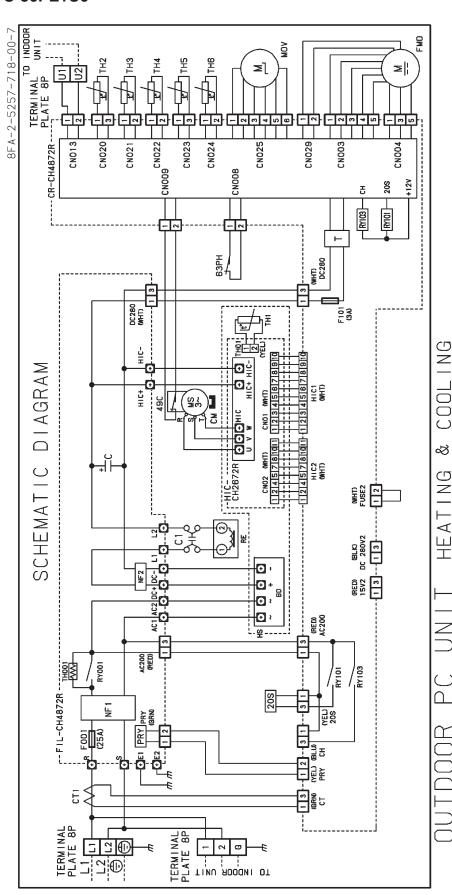
SYMBULS	DESCRIPTION	SYMBULS	SYMBOLS DESCRIPTION SYMBOLS DESCRIPTION SYMBOLS DESCRIPTION SYMBOLS DESCRIPTION	SYMBULS	DESCRIPTION	SYMBULS	DESCRIPTION	SYMBULS	DESCRIPTION
CM	COMPRESSOR MOTOR	F001, 101	OPERATION CIRCUIT FUSE HIC	HIC	HYBRID IC	CT1	CURRENT TRANSFORMER HIC-CH2872R HIC CIRCUIT BOARD	HIC-CH2672R	HIC CIRCUIT BOARD
FMO	OUTDOOR FAN MOTOR	NF1, 2	NOISE FILTER	BD	BRIDGE DIODE	RY001, 101, 103 RELAY	RELAY	- (/	THERMISTOR
63РН	HIGH PRESSURE SWITCH	U	ELECTROLYTIC CAPACITOR HS	НS	HEAT SINK (RADIATOR)	CR-CH4872R	CR-CH4872R CONTROL CIRCUIT BOARD		CONNECTOR. TERMINAL BOARD
49C	COMPRESSOR MOTOR THERMAL PROTECTOR	RE	REACTOR	_	TRANSFORMER	F1L-CH4872R	FIL-CH4872R FILTER CIRCUIT BOARD	0	TERMINAL
MOV	MOTOR OPERATED VALVE						•		
AW A	WARNING	ı							

SHOCK. POWER SUPPLY SWITCH WHEN CHANGING P.C.B., CONFIRM ALL THE L.E.D.S ON ELECTRIC Ν ВХ KILLED BE YOU MAY AND START TO REWORK, OTHERWISE 0FF MAIN ARE THE P.C.B. TURN OFF 뮢

U-36PE1U6



U-36PE1U6

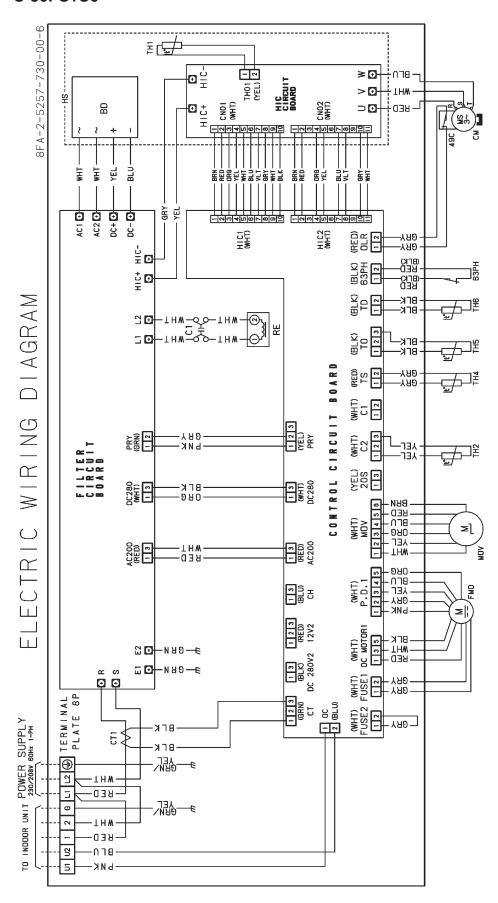


DESCRIPTION THERMISTOR CONNECTOR, TERMINAL BI SYMBOLS CONTROL CIRCUIT BOARD FIL-CH4872R FILTER CIRCUIT BOARD CURRENT TRANSFORMER HIC CIRCUIT BOARD DESCRIPTION RY001, 101, 103 RELAY HIC-CH2672R CR-CH4872R SYMBOLS CT1 HEAT SINK (RADIATOR) DESCRIPTION BRIDGE DIODE TRANSFORMER HYBRID IC REACTOR SYMBOLS ЭН 오 뀚 В OPERATION CIRCUIT FUSE ELECTROLYTIC CAPACITOR MOTOR OPERATED VALVE DESCRIPTION NOISE FILTER CAPACITOR F001, 101 SYMBOLS NF1, 2 MOV \Box ں HIGH PRESSURE SWITCH COMPRESSOR MOTOR THERMAL PROTECTOR OUTDOOR FAN MOTOR DESCRIPTION COMPRESSOR MOTOR FOUR WAY VALVE SYMBOLS 63РН FMO **20S** 49C S

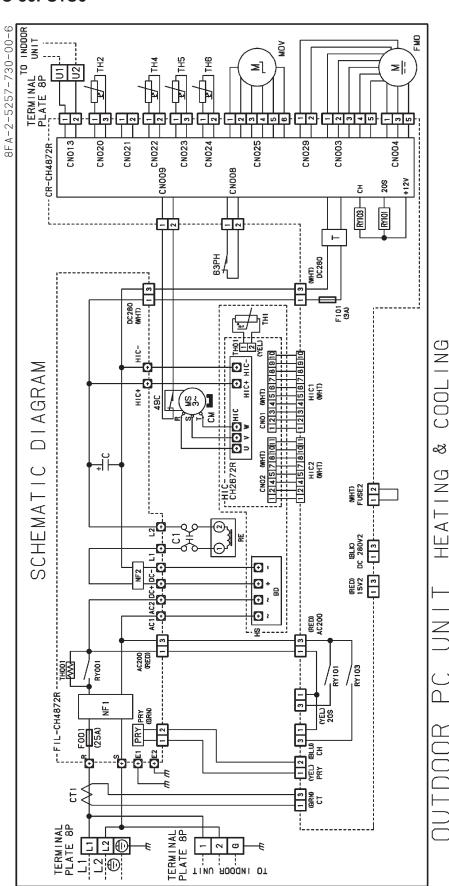
ELECTRIC SHOCK TURN OFF THE MAIN POWER SUPPLY SWITCH WHEN CHANGING P.C.B.. CONFIRM ALL THE L.E.D.S ON Ν B≺ KILLED P.C.B. ARE OFF AND START TO REWORK. OTHERWISE YOU MAY BE

WARN

U-36PS1U6



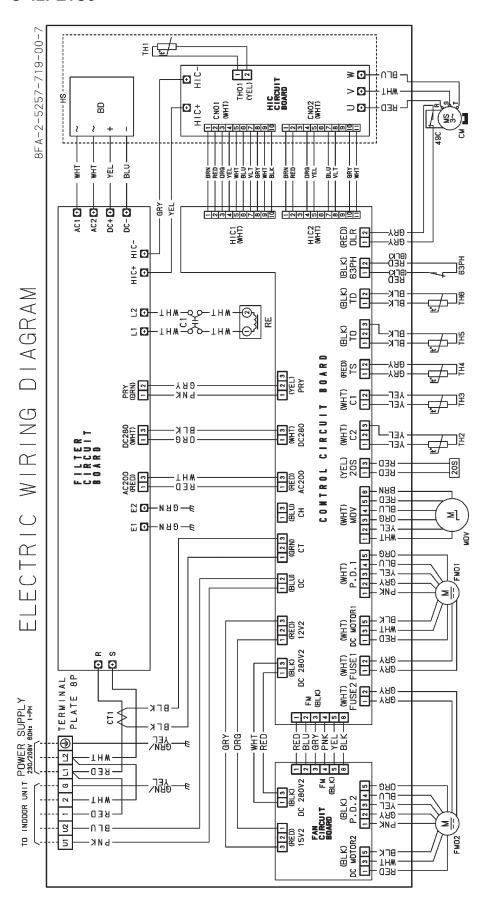
U-36PS1U6



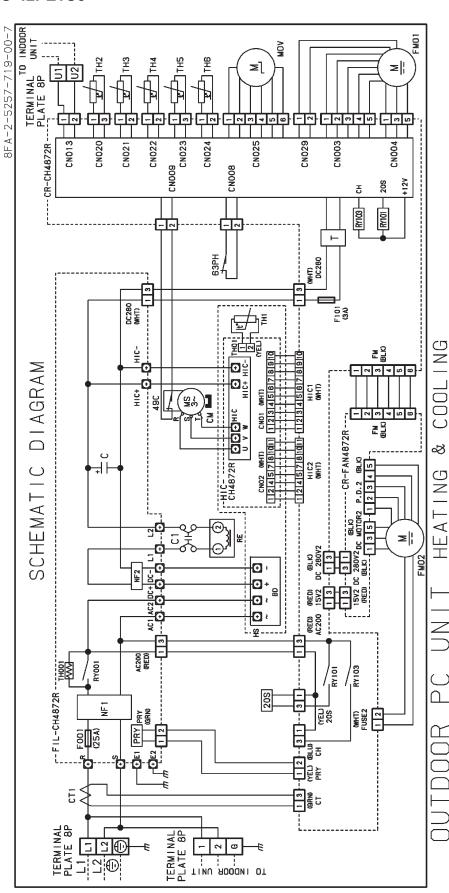
DESCRIPTION CONNECTOR. TERMINAL BOARD THERMISTOR SYMBOLS CONTROL CIRCUIT BOARD FILTER CIRCUIT BOARD HIC CIRCUIT BOARD DESCRIPTION RY001, 101, 103 RELAY HIC-CH2B72R F1L-CH4872R CR-CH4872R SYMBOLS CURRENT TRANSFORMER HEAT SINK (RADIATOR) DESCRIPTION BRIDGE DIODE TRANSFORMER HYBRID IC SYMBOLS Ξ CTJ 8 앞 ELECTROLYTIC CAPACITOR OPERATION CIRCUIT FUSE DESCRIPTION NOISE FILTER CAPACITOR REACTOR F001, 101 SYMBOLS NF1, 2 C 뀚 MOTOR OPERATED VALVE HIGH PRESSURE SWITCH COMPRESSOR MOTOR
THERMAL PROTECTOR OUTDOOR FAN MOTOR DESCRIPTION COMPRESSOR MOTOR WARN SYMBOLS **63PH** FIMO 49C ΑOM CM

ELECTRIC SHOCK <u>N</u> THE L.E.D.S ΑN CONFIRM ALL ΒY KILLED BE TURN OFF THE MAIN POWER SUPPLY SWITCH WHEN CHANGING P.C.B.. AND START TO REWORK, OTHERWISE YOU MAY P.C.B. ARE OFF

U-42PE1U6



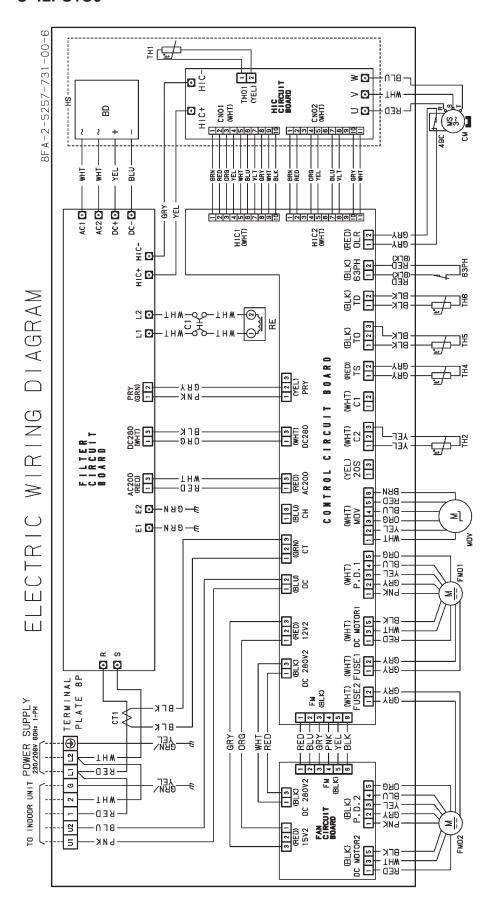
U-42PE1U6



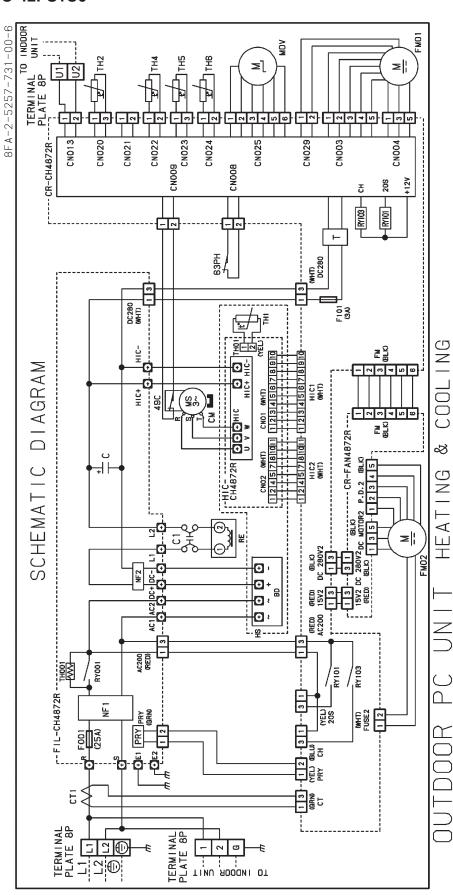
FAN CIRCUIT BOARD DESCRIPTION CONNECTOR, TERMINAL BOARD THERMISTOR CR-FAN4872R SYMBOLS CONTROL CIRCUIT BOARD FILTER CIRCUIT BOARD CURRENT TRANSFORMER HIC CIRCUIT BOARD DESCRIPTION RY001, 101, 103 RELAY F1L-CH4872R HIC-CH4872R CR-CH4872R SYMBOLS CT1 HEAT SINK (RADIATOR) DESCRIPTION BRIDGE DIODE TRANSFORMER HYBRID IC REACTOR SYMBOLS H 뮢 8 왚 OPERATION CIRCUIT FUSE ELECTROLYTIC CAPACITOR MOTOR OPERATED VALVE DESCRIPTION NOISE FILTER CAPACITOR F001, 101 SYMBOLS NF1, 2 MOV \Box ں HIGH PRESSURE SWITCH COMPRESSOR MOTOR
THERMAL PROTECTOR OUTDOOR FAN MOTOR DESCRIPTION COMPRESSOR MOTOR FOUR WAY VALVE WARN SYMBOLS FM01, 2 63РН **20S** 49C CM

ELECTRIC SHOCK THE L.E.D.S ON Ν TURN OFF THE MAIN POWER SUPPLY SWITCH WHEN CHANGING P.C.B. CONFIRM ALL ВХ KILLED BE AND START TO REWORK, OTHERWISE YOU MAY ARE OFF P.C.B.

U-42PS1U6



U-42PS1U6



DESCRIPTION THERMISTOR TERMINAL SYMBOLS CONTROL CIRCUIT BOARD FILTER CIRCUIT BOARD HIC CIRCUIT BOARD FAN CIRCUIT BOARD DESCRIPTION RY001, 101, 103 RELAY CR-FAN4872R F1L-CH4872R HIC-CH4872R CR-CH4872R SYMBOLS CURRENT TRANSFORMER HEAT SINK (RADIATOR) DESCRIPTION BRIDGE DIODE TRANSFORMER HYBRID IC SYMBOLS H CT BD 오 OPERATION CIRCUIT FUSE ELECTROLYTIC CAPACITOR DESCRIPTION NOISE FILTER CAPACITOR REACTOR F001, 101 SYMBOLS NF1, 2 $^{\circ}$ 묎 ں MOTOR OPERATED VALVE HIGH PRESSURE SWITCH COMPRESSOR MOTOR THERMAL PROTECTOR OUTDOOR FAN MOTOR DESCRIPTION COMPRESSOR MOTOR Z Y SYMBOLS FM01, 2 63РН 49C ΜOV S

AN ELECTRIC SHOCK. POWER SUPPLY SWITCH WHEN CHANGING P.C.B., CONFIRM ALL THE L.E.D.S ON B KILLED AND START TO REWORK, OTHERWISE YOU MAY BE P.C.B. ARE OFF TURN OFF THE MAIN

- MEMO -

4

4. SERVICE PROCEDURES

4-1.	Meaning of Alarm Messages	. 4-2
	Symptoms and Parts to Inspect	
	Details of Alarm Messages	
4-4.	Table of Thermistor Characteristics	4-16

4-1. Meaning of Alarm Messages

(1) Contents of remote controller switch alarm display

ON: ○ Blinking: ├ OFF: ●

			Wired remote control display	remo	Wireles te con iver di	trolle
	Pos	sible cause of malfunction	F04	Operation	Timer	Standby
Serial commu- nication errors Mis-setting	Remote controller is detecting error signal from indoor unit	Error in receiving serial communication signal (Signal from main indoor unit in case of group control) Outdoor system address, indoor system address, or indoor unit individual/main/sub setting is not set (Automatic address setting is not completed) Auto address is not completed	E01			
		Error in transmitting serial communication signal	E02	*	•	•
	Indoor unit is detecting error s	ignal from remote controller (and system controller)	E03		1 	
	Improper setting of indoor unit or remote controller	Indoor unit address setting is duplicated	E08		 	!
	unit of remote controller	Remote controller setting is duplicated	E09			
	Indoor unit is detecting error	Error in transmitting serial communications signal	E10		! ! !	
	signaled from signal option	Error in receiving serial communications signal	E11		 	1
	Automatic address setting failed	Starting auto address setting is prohibited This alarm message shows that the auto address connector CN100 is shorted while other RC line is executing auto address operation.	E12			
		Indoor unit capacity too low	E15		 - -	
		Indoor unit capacity too high	E16		! ! !	
		No indoor units connected	E20		 	
	Setting error	E14	•	•	 *	
	Indoor unit is detecting error	E04		! 		
	signaled from outdoor unit	Error in transmitting serial communications signal	E05		 	-
-	Outdoor unit is detecting error signaled from indoor	Error in receiving serial communications signal (including unit quantity verification failure)	E06		 	
	unit	Error in transmitting serial communications signal	E07		 	
	An indoor unit detected	Error in transmitting serial communications signal	E17		 	1
	trouble in the signal from another indoor unit	Error in receiving serial communications signal	E18	*	•	•
	Communications trouble between units	Communications failure with MDC	E31	•	•	 *
Mis-setting	Setting error	Indoor unit group settings error	L01		 	1
		Indoor/outdoor unit type mismatch	L02	*	•	*
		Main unit duplication in group control (detected by indoor unit)	L03	⊢ Si	multaneo	¦ ⊥sly⊐
		Outdoor unit address duplication (system address)	L04	*	0	; * ;
		Group wiring connected for independent indoor unit	L07	L Si	multaneo	usly —
		Address not set or group not set	L08	*	•	; - ;
		Indoor unit capacity not set	L09	∟Si	multaneo	ısly⊐ !
		Outdoor unit capacity not set or setting error	L10	*		-;;
		Miswiring in group control wiring	L11		: multaneo	
		Indoor unit type setting error (capacity)	L13		 	-

Continued

4. Service procedures

			Wired remote control display	remo	Wireless remote controller receiver display		
	Possible c	ause of malfunction		Operation	Timer	Standby	
Ceiling panel co	onnection failure		P09				
Activation of	Indoor protection	Fan protective thermostat	P01				
protective		Float switch	P10	•	; *	; *	
device		Faulty drain pump. Drain pump locked.	P11	1	-AI	ler.—	
		DC fan error.	P12				
	Outdoor protection	Discharge temperature trouble	P03				
		High pressure switch or compressor motor thermal protector is activated.	P04	1			
	Open phase detected, AC power trouble	P05	1	!			
		No gas	P15		 		
	4-way valve locked	P19	7	Alternate	· *		
	High cooling load	P20	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		7/7 ly		
		Outdoor fan trouble	P22				
	Inverter compressor trouble (HIC PCB)	P26					
Thermistor Thermistor open circuit short circuit (indoor)	Inverter compressor trouble (MDC)						
	Simultaneous-operation multi control trouble	P31					
		Compressor current failure (overload)	H01	•	*	•	
		Thermistor open circuit Indoor heat exchanger temperature sensor (E1)		F01			
	Short circuit (indoor)	hort circuit (indoor) Indoor heat exchanger temperature sensor (E2)	F02	*	*	•	
		Indoor temperature sensor	F10	LAI	ter !		
	• Short circuit (outdoor)			F04			
				F06			
	Outdoor heat exchanger temperature (C2)] *	*	0		
		Outdoor air temperature (TO)	F08		ter. J	1	
		Intake temperature (TS)	F12			 	
		Indoor EEPROM error	F29	- L _{Si}	mul	•	
		Outdoor EEPROM error	F31	- ↓ Lsi	mul.J	0	

	LED 1	LED 2	Remarks
Power ON sequence			
1. No communication from indoor units in system	0	0	If it is not possible to
2. Communication received from 1 or more indoor units in system	•	•	advance to 3, repeats $1 \rightarrow 2$. At 3, changes to normal
3. Regular communication OK (Capacity and unit quantity match)	•	•	control.
Normal operation EEPROM error (F31)	0	*	Displayed during automatic address setting 1 and initial communication. After these are completed, alarm F31 is displayed.
Pre-trip (insufficient gas)		•	P03
Pre-trip (P20)	-(0.75/0.25)	•	
Pre-trip (other)	*	•	
Alarm Alternate blinking during alarms LED 1 blinks M times, then LED 2 blinks N The cycle then repeats. M = 2: P alarm 3: H alarm 4: E alarm 5: F ala N = Alarm No. * Refer to "(3) Examples of alarm display"			
			of alarm display" below.
Insufficient gas indicator			of alarm display" below.
Insufficient gas indicator Refrigerant recovery mode	* Refer to "(of alarm display" below.
	* Refer to "(of alarm display" below.
Refrigerant recovery mode	* Refer to "(Stamples The stamples of the	Blinking alternately
Refrigerant recovery mode Automatic address setting	* Refer to "(3) Examples	Blinking alternately
Refrigerant recovery mode Automatic address setting Automatic address setting in progress	* Refer to "(Stamples The stamples of the	Blinking alternately Blinking simultaneously

○ : ON

Blinking (0.25/0.75) indicates that the lamp illuminates for 0.25 seconds, and then is OFF for 0.75 seconds. Unless otherwise indicated, the blinking is (0.5/0.5).

● : OFF

(3) Examples of alarm display (other than E15, E16, and E20)

Alarm / Display	LE	ED 1 ← Alterr	ately	→ LED 2
P03	*	(Blinks 2 times)	*	(Blinks 3 times)
P04	*	(")	*	(Blinks 4 times)
P05	*	(")	*	(Blinks 5 times)
P31	*	(")	苹	(Blinks 31 times)
H01	*	(Blinks 3 times)	*	(Blinks 1 times)
•		•		
E04	*	(Blinks 4 times)	*	(Blinks 4 times)
•		•		
F07	*	(Blinks 5 times)	*	(Blinks 7 times)
•		•		
L13	*	(Blinks 6 times)	*	(Blinks 13 times)
•		•		

Note:

This table shows example alarms. Other alarms may also be displayed.

4-2. Symptoms and Parts to Inspect

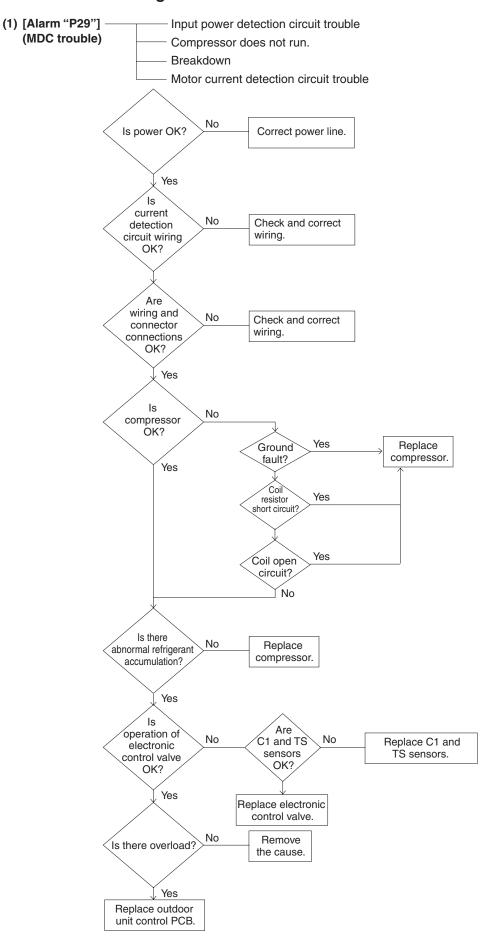
Remote controller alarm display	Alarm contents	Judgment condition	Clear condition	Judgment and correction
P03	Abnormal discharge temperature • Discharge temp. detected at or above the specified value.	Stops when temp. exceeds 232 °F.	Recovery at restart	Check refrigerant cycle (gas leak). Electronic control valve trouble Check tubing sensor (TD).
P04	High pressure switch is activated. Compressor motor thermal protector is activated.	Stops when pressure exceeds 600 psi. Stops when temp. exceeds 230 °F.	Recovery at restart	 Check the high pressure switch connector is securely connected. Check the ourdoor unit heat exchanger is not clogged (cooling operation). Check the indoor unit air filter has not become clogged (heating operation).
P05	Missing phase detected. (CT disconnected or AC power trouble)	Current value sent from MDC on outdoor unit control PCB is low. No AC power input for 3 minutes or longer: pre-trip - 5	Recovery at restart	Check R/S/T power. Check inverter control PCB Check outdoor unit control PCB.
P15	Insufficient gas level detected.	The following conditions continue for 1 minute. • Discharge temp. is 203 °F or higher. • Electronic control valve is at step 480. • Current value from MDC is 2.0 A or less.	Recovery at restart	Check refrigerant cycle (gas leak).
P19	4-way valve locked • Judgment occurs after compressor has been ON for 5 minutes.	Indoor heat exchanger temp. drops although compressors are ON in heating mode: $[\min(E1, E2)] \leq 50 ^\circ F.$ Indoor heat exchanger temp. rises although compressors are ON in cooling mode: $E2 \geq 104 ^\circ F.$	Recovery at restart	Check 4-way valve. Check 4-way valve wiring. Check outdoor unit control PCB.
P20	High-pressure protection trouble	If MAX (C1,C2) is 142°F or higher, the compressor stops one. The compressor restarts three time, and if the temperature does not decrease to less than 142°F, the alert "P20" is displayed.	Recovery at restart	Refrigerant cycle overload operation Outdoor coil temperature sensor C1 or C2
P22	Outdoor unit fan motor trouble • Inverter protection circuit was activated, or lock was detected, at outdoor unit fan motor.	Inverter stops after alarm is detected.	Recovery at restart	Position detection trouble Overcurrent protection circuit at outdoor unit fan motor was activated. Check outdoor unit contro PCB. Refer to outdoor unit fan judgment methods.
P26	Inverter protection circuit was activated, or G-Tr short-circuit (short time: 0.8 s or less) in inverter control	Inverter stops after alarm is detected. Alarm is output when inverter stops (pre-trip) consecutively 4 times.	Recovery at restart	Stops immediately when restarted. Layer short in the compressor Check inverter control PCB. Wiring trouble

Remote controller alarm display	Alarm contents	Judgment condition	Clear condition	Judgment and correction
P29	Current detection circuit trouble • AC current value is high even when compressor is stopped.	Inverter stops after alarm is detected. Alarm is output when inverter stops (pre-trip) consecutively 4 times.	Recovery at restart	Stops immediately when restarted. Layer short in the compressor Check inverter control PCB. Wiring trouble
	Compressor motor output trouble, Inverter compressor trouble, MDC trouble	Inverter stops after alarm is detected.	Recovery at restart	Refrigerant cycle trouble, overload operation Loose screws and contact failure between HIC control PCB and radiating plate Cooling failure of radiating plate Check outdoor unit PCB wiring.
	Compressor does not run. (Overcurrent protection circuit activates after a certain period of time following compressor start.)	Inverter stops after alarm is detected.	Recovery at restart	Compressor trouble (locked, etc.) Replace the compressor. Compressor wiring trouble (missing phase)
	Compressor breakdown • Starts to operate but operating frequency drops and compressor stops.	Inverter stops after alarm is detected.	Recovery at restart	1. Check power voltage: AC 203 V ±20 V or 230 V ±23 V. 2. Refrigerant cycle overload operation 3. Check AC current detection circuit.
	Inverter control PCB position detection circuit trouble	Inverter stops after alarm is detected.	Recovery at restart	Position detection circuit is activated even when the compressor 3P connector is disconnected and the compressor operated. Replace the inverter control PCB.
F04	Disconnection, open circuit, or short circuit in discharge temp. sensor (TD)	26, 36 MODEL: Sensor detection trouble (194°F or higher when 15 minutes have elapsed after compressor stopped). (Open circuit) 42 MODEL: Sensor defection trouble (194°F or higher when 60 minutes have elapsed after compressor stopped). (Open circuit)	Automatic recovery	Check discharge temp. sensor (TD). Check outdoor unit control PCB.
F06	Disconnection, open circuit, or short circuit in outdoor heat exchanger temp. sensor (C1)	Open circuit or short circuit	Automatic recovery	Check outdoor heat exchanger temp. sensor (C1). Check outdoor unit control PCB.
F07	Disconnection, open circuit, or short circuit in outdoor heat exchanger temp. sensor (C2)	Open circuit or short circuit	Automatic recovery	Check outdoor heat exchanger temp. sensor (C2). Check outdoor unit control PCB.
F08	Disconnection, open circuit, or short circuit in outdoor air temp. sensor (TO)	Open circuit or short circuit	Automatic recovery	Check outdoor air temp. sensor (TO). Check outdoor unit control PCB.
F12	Disconnection, open circuit, or short circuit in intake temp. sensor (TS)	Open circuit or short circuit	Automatic recovery	Check intake temp. sensor (TS). Check outdoor unit control PCB.

4. Service procedures

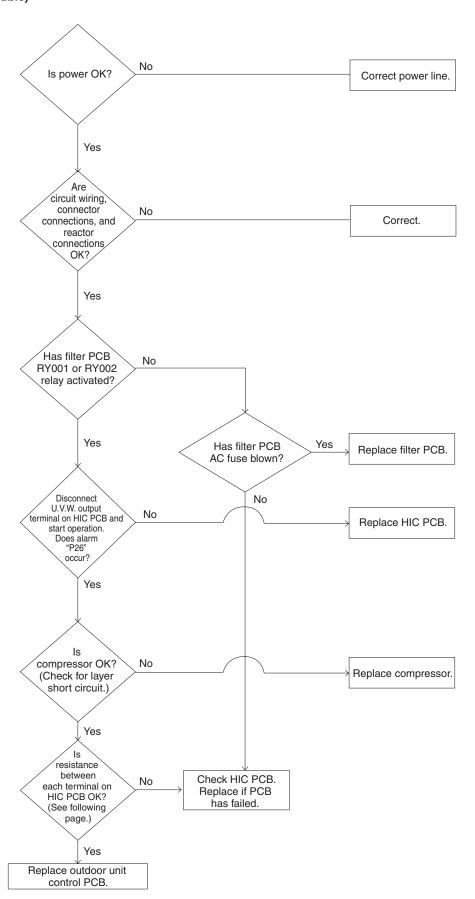
Remote controller alarm display	Alarm contents	Judgment condition	Clear condition	Judgment and correction
F31	EEPROM trouble	Reading/writing failure	Recovery at power reset	Check EEPROM (IC007). Check outdoor unit control PCB.
L02	Mismatch of indoor and outdoor unit types (Espacio, Multi)	Indoor unit judges that type does not match outdoor unit type.	Recovery at power reset	Check indoor unit EEPROM. Check indoor unit control PCB.
L04	Settings failure	Duplicated outdoor unit address (system address)	Automatic recovery	Check outdoor unit system address. Check inter-unit control wiring.
L07	Settings failure	Group control wiring is connected to an independent-control indoor	Recovery at power reset	Check inter-unit control wiring. Check indoor unit EEPROM.
L10	Settings failure	Outdoor unit capacity not set.	Recovery at power reset	Check outdoor unit EEPROM.
L13	Indoor-outdoor unit types	Outdoor unit judges that type does not match indoor unit type.	Recovery at power reset	Check indoor unit EEPROM. Check outdoor unit control PCB.
E06	Outdoor unit detected abnormal signal from indoor unit.	Serial signal receiving failure (including failure to verify No. of units)	Automatic recovery	Check inter-unit control wiring. Check outdoor unit
E07	Outdoor unit sending failure to indoor unit	Serial signal sending failure	Automatic recovery	Check inter-unit control wiring. Check outdoor unit control PCB.
E14	Settings failure	Duplicated master unit in simultaneous-operation multi control (Detected by outdoor unit)	Recovery at power reset	Check inter-unit control wiring. Check indoor unit combination.
E15	Automatic address setting failure	Indoor unit capacity too low.	Recovery at power reset	Check inter-unit control wiring. Check outdoor unit control PCB.
E16	Automatic address setting failure	Indoor unit capacity too high.	Recovery at power reset	Check inter-unit control wiring. Check outdoor unit control PCB.
E20	Automatic address setting failure	Outdoor unit cannot receive any serial signals from indoor units.	Recovery at power reset	 Check inter-unit control wiring. Check outdoor unit control PCB.
E31	Communications trouble within unit	No communication possible with MDC for 3 minutes or longer.	Automatic recovery	Check outdoor unit control PCB.
H01	Overcurrent	Inverter stops after alarm is detected.	Recovery at restart	Refrigerant cycle trouble, overload operation Loose screws between HIC control PCB and radiating plate Cooling failure of radiating plate Check outdoor unit PCB wiring.

4-3. Details of Alarm Messages

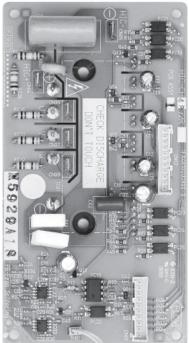


(2) [Alarm "P26"] — HIC PCB trouble)

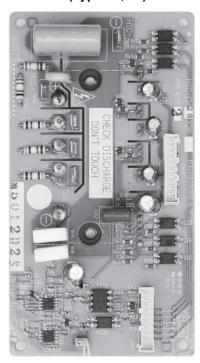
IGBT short-circuit protection on inverter control (IPDU) PCB



HIC-CH4872R (Type 42)



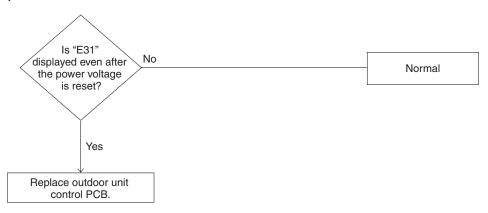
HIC-CH2672R (Type 26, 36)



Resistance

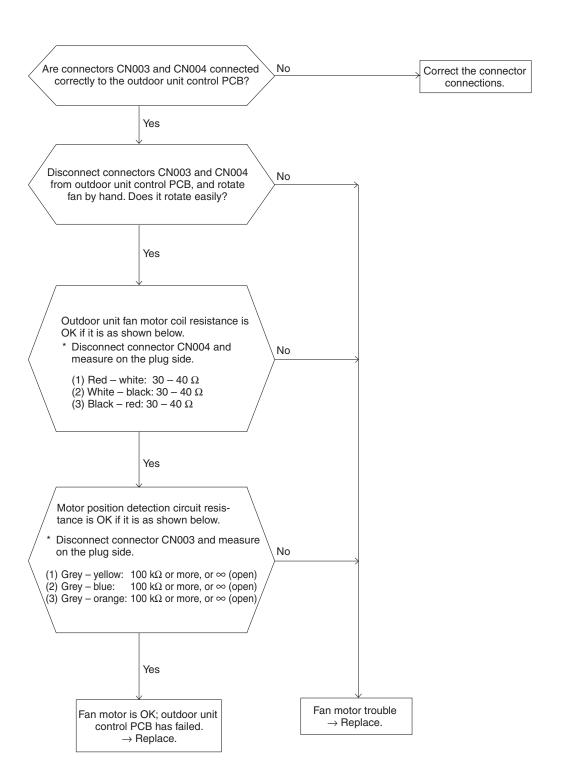
Between terminals	Resistance
HIC + — HIC –	200 kΩ or more
HIC+ — U	300 kΩ or more
HIC + V	300 kΩ or more
HIC + W	300 kΩ or more
HIC - U	200 kΩ or more
HIC V	200 kΩ or more
HIC - W	200 kΩ or more

(3) [Alarm "E31"] (communications trouble within unit) IGBT short-circuit protection



Л

(4) [Alarm "P22"] — Outdoor unit fan motor drive circuit trouble

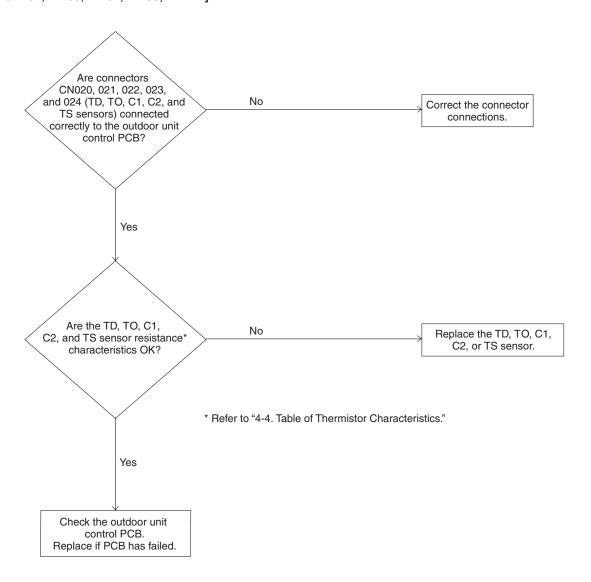


Note:

In the case of a GND circuit failure inside the motor, the results of the above check may be OK.

If operation is not OK after the outdoor unit control PCB has been replaced, then replace the outdoor unit fan motor.

(5) [Alarms "F04," "F06," "F07," "F08," "F12"]———— Sensor trouble



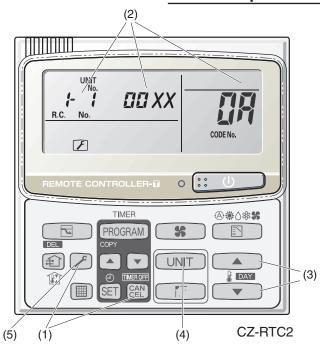
■ Sensor Temperature Display Function (displayed regardless of whether unit is operating or stopped)

The procedure below displays the sensor temperatures from the remote controller, indoor unit, and outdoor unit on the remote controller.

<Pre><Pre>cedure of CZ-RTC2>

- (1) Press and hold the and can buttons simultaneously for 4 seconds or longer.
- (2) The unit No. "X-X" (main unit No.), item code "XX" (sensor address), and servicing monitor " III XX" (sensor temperature) are displayed on the remote controller LCD display. (See Fig. 1 at right.)
- (3) Press the temperature setting /
 buttons and select the item code to the address of the sensor to monitor.

 (For the relationships between the sensor addresses and sensor types, refer to the table of temperature sensors and addresses on the next page.)
- (4) If group control is in effect, press the UNIT button to select the unit to monitor.
 Press the temperature setting buttons to select the item code to change.
- (5) Press the button to return to normal remote controller display.



* Display shows a discharge temperature of 00XX at unit No. 1-1.

Fig. 1

NOTE

The temperature display appears as "- - - " for units that are not connected.

* If monitor mode is engaged while normal operation is in progress, only the parts of the LCD display shown in the figure will change. Other parts continue to display the same information as during normal operation.

<Pre><Pre>cedure of CZ-RTC3 / CZ-RTC5>

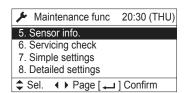
(1) Keep pressing the _____, ___ and ____ buttons simultaneously for 4 or more seconds. The "Maintenance func" screen appears on the LCD display.



(2) Press the ▼ or ▲ button to see each menu.

If you wish to see the next screen instantly, press the $\begin{tabular}{c} \blacksquare \end{tabular}$ or $\begin{tabular}{c} \blacksquare \end{tabular}$ button.

Select "5. Sensor info." on the LCD display and press the button.



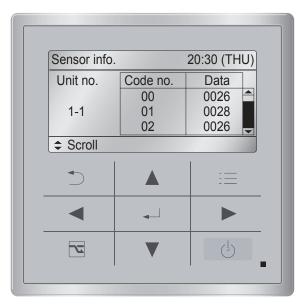
Select the "Unit no." by pressing the ▼ or button for changes.

Sensor i	nfo.	20:30 (THU)
Unit no.	Code no.	Data
_	00	0026
1-1	01	0028
	02	0026
Sel.	▶ Next	

Then press the button. Display sensor information of the unit.

Sensor info.		20:30 (TH	U)
Unit no.	Code no.	Data	
	00	0026	â
1-1	01	0028	
	02	0026	v

Refer the information by pressing the or button.



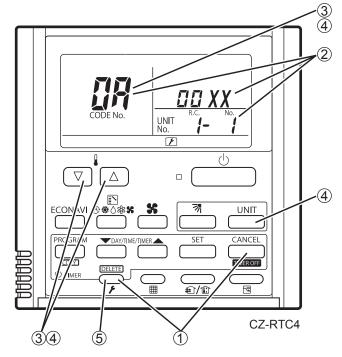
CZ-RTC3 CZ-RTC5

Fig. 2

<Pre><Pre>cedure of CZ-RTC4>

- 1) Press and hold the $\stackrel{\frown}{\smile}$ and $\stackrel{\frown}{\smile}$ buttons simultaneously for 4 seconds or longer.
- ② The unit No. "X-X" (main unit No.), item code "XX" (sensor address), and servicing monitor "ID XX" (sensor temperature) are displayed on the remote controller LCD display. (See Fig. 3 at right.)
- ③ Press the temperature setting ▽ / △ buttons and select the item code to the address of the sensor to monitor.
- (4) If group control is in effect, press the button to select the unit to monitor.

 Press the temperature setting buttons to select the item code to change.
- (5) Press the \bigcap_{r} button to return to normal remote controller display.



* Display shows a discharge temperature of 00XX at unit No. 1-1.

Fig. 3

NOTE

The temperature display appears as "- - - -" for units that are not connected.

* If monitor mode is engaged while normal operation is in progress, only the parts of the LCD display shown in the figure will change. Other parts continue to display the same information as during normal operation.

Sensor Temperature Correlation Table

Sensor installation location	Sensor address	Sensor type	Sensor address	Sensor type
	00	Room temp. (temp. used for control)*	05	_
	01	Remote controller temp.	06	Discharge temp.
Indoor unit	02	Indoor intake temp.	07	_
	03	Indoor heat exchanger temp. (E1)	08	_
	04	Indoor heat exchanger temp. (E2)	09	_
	0A	Discharge temp. (TD)	12	_
	0b	_	13	_
	0C	-	14	Current (AC current)
Outdoor unit	0d	Intake temp. (TS)	15	Outdoor electronic control valve position
	0E	Outdoor heat exchanger temp. (C1)	16	_
	0F	Outdoor heat exchanger temp. (C2)	17	_
	10	_	18	_
	11	Outdoor air temp.	19	_

^{*} Main unit only when group control is enabled

Check Pin

Short-circuit the cooling check pin (or heating check pin) on the outdoor unit control PCB to perform the control described below.

1. Thermistor checks

The checks listed below are performed for 1 second each, in order from the top down. The results are displayed by LED 1 and 2.

Thermister	Check	k results
Thermistor	Normal	Abnormal
Discharge temp. (TD)	LED 1 lit	
Outdoor air temp. (TO)	LED 2 lit	
Heat exchanger temp. (C1)	LED 1 lit	LED 1 and 2 OFF
Heat exchanger temp. (C2)		
Intake temp. (TS)	LED 1 lit	

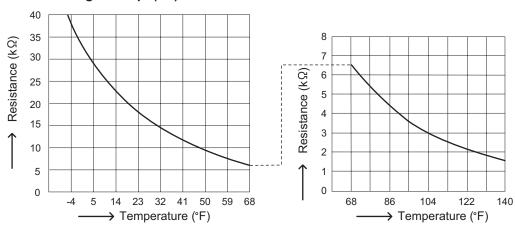
2. 4-way valve turns ON for 1 second.

 \downarrow

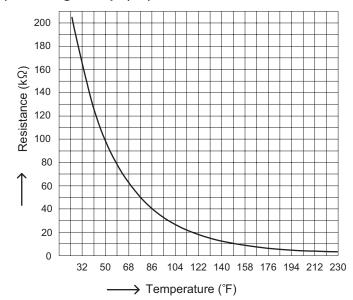
3. Forced cooling (or heating) operation

4-4. Table of Thermistor Characteristics

(1) Outdoor Air Temp. (TO), Intake Temp. (TS), Heat Exchanger Temp. (C1) Thermistor, Heat Exchanger Temp. (C2) Thermistor



(2) Discharge Temp. (TD) Thermistor



5. OUTDOOR UNIT MAINTENANCE REMOTE CONTROL

In	the	case	of	CZ-RTC2	

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In the case of CZ-RTC2

5-1. Overview

What is the outdoor unit maintenance remote controller?

Beginning with the DC-INV series of outdoor units, nonvolatile memory (EEPROM) is used in the outdoor unit PCB. In this way, the setting switches that were located on earlier PCBs have been converted to EEPROM data. This remote controller is an outdoor unit maintenance tool that is used to make and change the EEPROM settings.

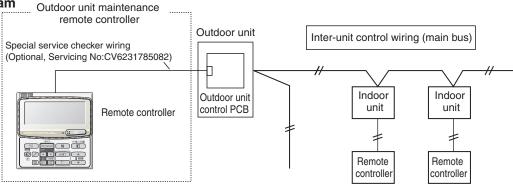
This remote controller can be used for checking the outdoor unit EEPROM settings and contents, and also can be used to monitor the outdoor unit alarm history and indoor/outdoor unit temperatures, and to check the status of the indoor unit connections (No. of units, operating status, etc.).

Note: Because this tool does not function as a remote controller, it is used only during test runs and servicing.



CZ-RTC2

System diagram



- * The special service checker wiring is required in order to connect the outdoor unit maintenance remote controller to the outdoor unit PCB.
- * Even when the outdoor unit maintenance remote controller is connected, a separate remote controller or other control device must be connected to the indoor unit.

5-2. Functions

Normal display functions

- (1) Functions: Button operations can be used to perform the following functions.
 - · Start/stop of all indoor units
 - Switching between cooling and heating
 - · Test run of all indoor units
 - High-speed operation of indoor units (Do not use with actual units. This may damage the devices.)
- (2) Display: The following can be displayed.
 - Alarm details display
 - No. of indoor/outdoor units
 - · Unit Nos. of connected indoor/outdoor units
 - Indoor/outdoor unit operating status (blinks when an alarm occurs)
 - Indoor unit thermostat ON
 - Individual display of outdoor unit alarms
 - Outdoor unit compressor total operating time
 - · Outdoor unit oil sensor oil level
 - Outdoor unit total power ON time
 - Outdoor unit microcomputer version
 - Other

■ Temperature monitor

Displays the indoor/outdoor unit sensor temperatures.

Outdoor unit alarm history monitor

Displays the outdoor unit alarm history.

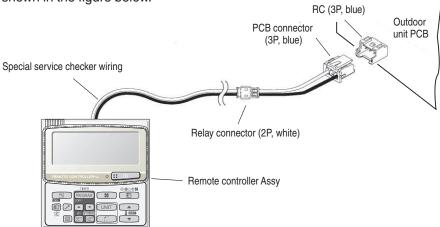
Setting modes

Setting mode 1 and setting mode 2 are used to make the outdoor EEPROM setting.

5-3. Normal Display Operations and Functions

Normal display functions

• Connect the special service checker wiring to the outdoor unit PCB. The connection is shown in the figure below.



- * It is not necessary to disconnect the communications line in the inter-unit control wiring if it has already been connected at this time.
- * Setting modes 1 and 2 can be used even when the outdoor unit is independent (when 1 maintenance remote controller is connected to 1 outdoor unit and automatic address setting for the indoor units has not been completed).
- * Displays the overall system status for that refrigerant system.

All units start/stop (Fig. 1)

<Operation>

The button can be used to start and stop all the indoor units.

- The LED turns ON when 1 or more indoor units is operating.
- The LED blinks when an alarm has occurred at 1 or more indoor units during operation.

Switching between cooling/heating (Fig. 1)

<Operation>

The button switches between heating and cooling modes.

- The specifications are equivalent to the heating/cooling input that was present on earlier outdoor unit PCBs.
- The display shows the operating mode of the indoor unit with the lowest number.

All units test run (Fig. 2)

<Operation>

The Dutton switches test run ON/OFF for all indoor units.

- Press and hold for 4 seconds to turn ON.
 "TEST" is displayed while the test run is in progress.
- Conditions of test runs that are started from the unit remote controller are not displayed on the outdoor unit maintenance remote controller.

Fig. 1



Fig.2



■ Display (functions)

• Use the temperature setting

and

buttons to change the item code.

Item code	Display contents	Remarks
00 (1)	Outdoor unit alarm contents (code): OFF when normal Blinking 8-alarm code display at pre-trip, LED (2)	At initial status
01	No. of indoor units connected in that refrigerant system	
02	Unit. Nos. of connected indoor units in that refrigerant system *2	
03	Operating status of indoor units in that refrigerant system (blinks when alarms occur) *2	
04	Unit Nos. of indoor units in that refrigerant system where the thermostats are ON *2	
05	No. of outdoor units connected in that refrigerant system	No. of connected units: 1
06	Unit Nos. of connected outdoor units in that refrigerant system *2	
07	Operating status of outdoor units in that refrigerant system (blinks when alarms occur) *2	
08		
09		
0A		
0b		
0C		
0d		
0E		
0F		
10	Total compressor operating time (in 1-hr. units) *3	
11		
12		
13		
14		
15		
16	Total power ON time of outdoor unit (in 1-hr. units)	
17	Compressor start count	
18		
19		
FE	Outdoor unit microcomputer firmware version	
FF	Outdoor unit microcomputer software version	

(3) XX-YY R.C.

Displays the outdoor unit address of the selected outdoor sub-bus.

XX = Main bus line outdoor system address (1 - 30)

YY = Outdoor unit address in outdoor sub-bus (1 - 4). This is "1" when there is only 1 outdoor unit.

<Sample displays>



01: <No. of connected indoor units> 4 units connected



02: <Unit Nos. 1, 2, 3, and 4 are connected>

* See following page for *2 and *3.

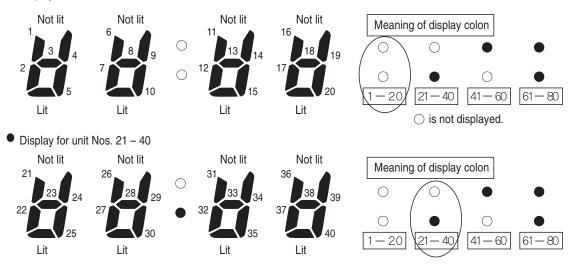
Locations where (1), (2), and (3) are displayed are shown below.



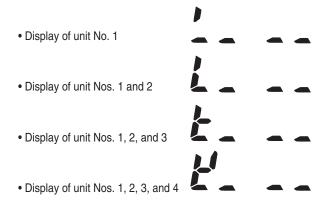
*2: 7-segment, 4-digit display for remote controller timer display

The connected unit Nos. are displayed as shown below, using the 7-segment 4-digit (28: 28) display and the colon.

● Display for unit Nos. 1 – 20



- The meaning of the colon display changes in the same way, allowing unit Nos. up to 80 to be displayed.
- Sample displays of the unit Nos. of connected indoor units



NOTE

The colon display changes automatically every 10 seconds. (The display does not change if higher unit numbers do not exist.)

Pressing the ____ button switches the display immediately to the next higher level, even if 10 seconds have not passed.

- *3: The total compressor operating time is displayed (in 1-hour units) using 8 digits.
 - When the first 4 digits are displayed, the top point of the colon is lit.
 - When the last 4 digits are displayed, the colon points are not lit.
 - The display of the first 4 and last 4 digits changes automatically every 10 seconds. It can also be changed by pressing the button.









(A) and (B) are displayed alternately.

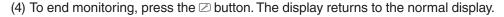
NOTE

With the outdoor unit maintenance remote controller (when connected to the outdoor unit), the unit remote controller check functions will not operate.

5-4. Monitoring Operations: Display of Indoor Unit and Outdoor Unit Sensor Temperatures

<Operating procedure>

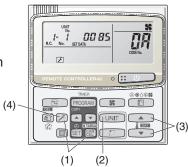
- (1) Press and hold the 🗷 button and 🕾 button simultaneously for 4 seconds or longer to switch to temperature monitor mode.
 - During temperature monitoring, "Service Monitor" is lit.
 - (The display and operations are the same as when monitor mode is started from the unit remote controller.)
- (2) Press until the button and select the indoor unit to monitor.
- (3) Use the temperature setting riangle and riangle buttons to select the item code of the temperature to monitor.
 - The selected indoor unit No. and the temperature data are displayed.



* The	disp	lay c	loes	not	b	lin	K.
-------	------	-------	------	-----	---	-----	----

	Item code	Meaning of Code
Indoor unit data	02	Indoor unit intake temp.
	03	Indoor unit heat exchanger temp. (E1)
	04	Indoor unit heat exchanger temp. (E2)
	05	_
	06	Indoor unit discharge temp.
	07	-
	80	_
	09	
Outdoor unit data	0A	Discharge temp. (TD)
	0b	_
	0C	_
	0d	Intake temp. (TS)
	0E	Outdoor unit heat exchanger temp. (C1)
	0F	Outdoor unit heat exchanger temp. (C2)
	10	_
	11	Outdoor air temp. (TO)
	12	_
	13	-
	14	Current value
	15	Outdoor MV value
	19	Frequency

^{*} Depending on the model, some items may not be displayed.

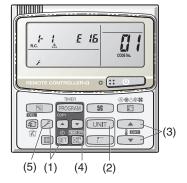


5-5. Monitoring the Outdoor Unit Alarm History: Display of Outdoor Unit Alarm History

- * Displays outdoor unit alarms only. Does not display indoor unit alarms.
- * Check the indoor unit alarm histories separately using the indoor unit remote controllers or other control device.
- <Operating procedure>
- (1) Press and hold the \(\subseteq \) button and \(\subseteq \) button simultaneously for 4 seconds or longer to change to outdoor unit alarm history mode.

During the alarm history display, "Service Check" is lit.

The display and operations are the same as the monitoring of the alarm device history that is performed using the unit remote controller. However, the outdoor unit address appears instead of the unit No.



(2) Press the unbutton and select the outdoor unit for alarm history monitoring.



(3) Use the temperature setting o and o buttons to select the item code for the alarm history.

The display shows the address of the selected outdoor unit, the item code, and the alarm history (alarm data).

The outdoor unit address is displayed as system XX-YY.

System XX = Outdoor unit system address



YY = Outdoor unit sub-bus address

The item code is displayed as 01–08. 01 indicates the most recent alarm.

The alarm history is indicated by the alarm code. (If there have been no alarm codes, "____" is displayed.)

(4) To clear the alarm history, press the @ button. (The outdoor unit alarm history will be cleared.)



(5) To end, press the D button. The display returns to the normal remote controller display.

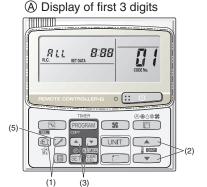
5-6. Setting Modes: Setting the Outdoor Unit EEPROM

- Setting mode 1
- <Operating procedure>
- (1) Press and hold the D button and button simultaneously for 4 seconds or longer.
- (2) Use the temperature setting

 and

 buttons to change the item code.

 The item codes and setting data are shown in the table on the next page.
- (3) Use the timer time and buttons to change the setting data. To confirm the changed setting data, press the button. (At this time, "Setting" stops blinking and remains lit.)
- (4) During this mode, "Setting" is displayed, blinking. The outdoor unit address display section displays "ALL," the item code and number (DN value in the table), and the setting data (6 digits). (The setting data is displayed in 6 digits. The display changes between the first 3 digits (Fig. (A)) and the last 3 digits (Fig. (B)). When the first 3 digits are displayed, the top point of the colon is lit.)
- (5) To end the setting mode, press the ∠ button.



B Display of last 3 digits



(Example shows display of 000 001.)

F

List of Item Codes

Item code		Parameter
01	Control system schedule	Do not set
02	Control system schedule	Do not set
03	Control system schedule	Do not set
04	Snowfall sensor operation	0 = No sensor, control performed 1 = No sensor, control not performed 2 = Sensor present, control performed 3 = Sensor present, control not performed
05	Outdoor fan quiet mode	Do not set
06	Defrost fan speed selection	Do not set
07	Ignore capacity	0 = Disabled 1 = Ignores capacity ratio
08	Control system schedule	Do not set
09	Control system schedule	Do not set
0A	Control system schedule	Do not set
0b	Control system schedule	Do not set
0C	Forced operation of indoor unit drain pump	0 = Disabled 1 = During cooling only, 2 hours stopped + 20 minutes operating (regardless of whether the unit is running or stopped) 2 = During cooling only, 4 hours stopped + 20 minutes operating (regardless of whether the unit is running or stopped) 3 = At all times, 4 hours stopped + 20 minutes operating 4 = At all times, 2 hours stopped + 20 minutes operating
0d	Odor countermeasure when indoor cooling thermostat is OFF	Do not set
0E	Cool only	0 = Heat pump 1 = Cool only
0F	Control system schedule	Do not set
10	Control system schedule	Do not set
11	Multi-floor installation	Do not set
12	External Electronic Expansion Valve Kit	0 = No 1 = Yes
13	Control system schedule	Do not set
4E	Test mode 1	Do not set
4F	Test mode 2	Do not set
50	Demand 1	40%, 45% 100% 160%
51	Demand 2	40%, 45% 100% 160%
52	Current control level	40%, 45% 100% 160%, -1 (normal: at shipment from factory)
53	Control system schedule	Do not set
54	Control system schedule	Do not set
55	Control system schedule	Do not set
56	Control system schedule	Do not set
57	Control system schedule	Do not set
58	Control system schedule	Do not set
59	Control system schedule	Do not set
5A	Control system schedule	Do not set
5B	Control system schedule	Do not set

^{*} Figures in parentheses indicate the data at the time of shipment from the factory.

Setting mode 2

<Operating procedure>

- (1) Press and hold the 🗷 button, 🗊 button, and 🕾 button simultaneously for 4 seconds or longer.
- (2) Use the temperature setting △ and ¬ buttons to change the item code. The item codes and setting data are shown in the table below.
- (3) Use the timer time

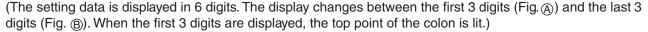
 and

 buttons to change the setting data.

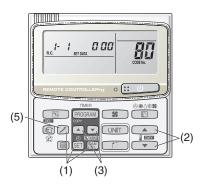
 To confirm the changed setting data, press the

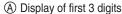
 button.

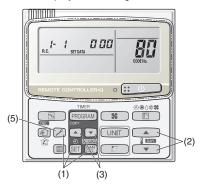
 (At this time, "Setting" stops blinking and remains lit.)
- (4) During this mode, "Setting" is displayed, blinking. The display shows the set outdoor unit address "System XX-YY" (System XX = System address, YY = Address at outdoor unit sub-bus), item code number (DN value in the table below), and the setting data (6 digits).











B Display of last 3 digits



80: <Refrigerant type> (A) and (B) are displayed alternately. (Example shows 000 410 (R410A).)

5. Outdoor unit maintenance remote control

List of Item Codes

Item code	Parameter		
80	Refrigerant type	407 = R407C 22 = R22 410 = R410A	
81	Outdoor unit capacity*	0 = Disabled 80 : Type 26	
82	Control system schedule	Do not set	
83	Control system schedule	Do not set	
84	3-phase or single-phase	0 = 3-phase 1 = single-phase	
85	Power frequency	Do not set	
86	Control system schedule	Do not set	
87	Control system schedule	Do not set	
88	Control system schedule	Do not set	
89	Crank case heater control	0 = No 1 = Yes	
8A	Control system schedule	Do not set	
8b	Control system schedule	Do not set	
8E	Control system schedule	Do not set	

^(*) Figures represent the capacity data for each model.

In the case of CZ-RTC4

5-7. Overview

■ About the outdoor unit maintenance remote controller

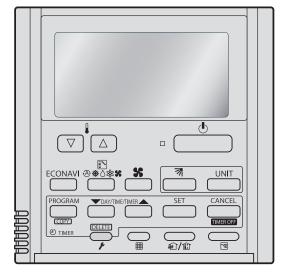
The outdoor unit utilizes nonvolatile memory (EEPROM) on its PCB. This allows EEPROM data to replace the setting switches that were present on previous PCBs. The outdoor unit maintenance remote controller is used to set and change these EEPROM data.

In addition to setting and checking the outdoor unit EEPROM data, this remote controller can also be used to monitor the outdoor unit alarm history, monitor the various indoor and outdoor temperatures, and check the indoor unit connection status (number of units, operating mode, etc.).

NOTE

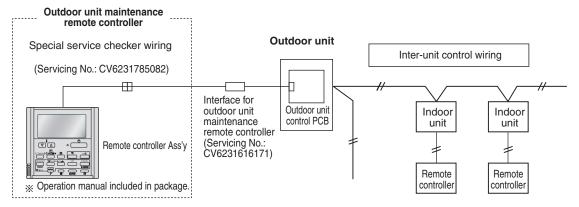
Outdoor unit maintenance remote controller does not function as an ordinary remote controller. It is therefore only used for test runs and during servicing.

[Service Checker Section]



CZ-RTC4

System diagram



- The special service checker wiring is required in order to connect the outdoor unit maintenance remote controller to the outdoor unit PCB.
- Ordinary remote controllers or other controller are still required for the indoor units, even when the outdoor unit
 maintenance remote controller is connected.

J

5-8. Functions

■ Functions on the ordinary display

- (1) Functions: Button operations can be used to perform the following functions.
 - Start/stop of all indoor units
 - · Switching between cooling and heating
 - Test run of all indoor units
 - Double-speed operation of indoor units (Do not use for actual operation. Doing so may damage the devices.)
- (2) Display: The following can be displayed.
 - Alarm details display
 - No. of indoor/outdoor units
 - Unit Nos. of connected indoor/outdoor units
 - Indoor/outdoor unit operating status (blinks when an alarm occurs)
 - Indoor unit thermostat ON
 - Display of individual outdoor unit alarms
 - Total operating time of outdoor unit compressors
 - Oil level of the outdoor unit oil sensor
 - Total outdoor unit power ON time
 - Outdoor unit microcomputer version, other information

■ Temperature monitor

• Displays the indoor/outdoor unit sensor temperatures.

■ Outdoor unit alarm history monitor

• Displays the outdoor unit alarm history.

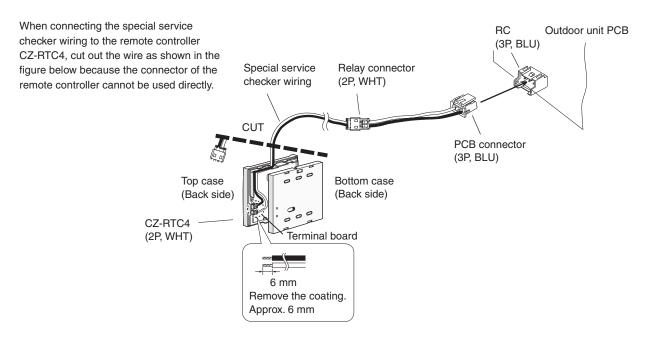
■ Mode settings

• Setting mode 1 and setting mode 2 are used to make the outdoor EEPROM setting.

5-9. Normal Display Operations and Functions

■ Functions on the ordinary display

• Connect the special service checker wiring to the outdoor unit PCB. The connection is shown in the figure below.



- If the communications line in the inter-unit control wiring is connected, it can be left as-is.
- In case of an independent outdoor unit (1 maintenance remote controller connected to 1 outdoor unit, automatic address setting for indoor units not completed), both setting mode 1 and setting mode 2 can be used.
- The overall system status for that refrigerant system is displayed.

J

All units start/stop (Fig. 3)

<Operation>

The (Start/Stop operation) button can be used to start and stop all the indoor units.

- The LED illuminates if any indoor units is operating.
- The LED blinks if an alarm at any of the operating indoor units occurs.

Cooling/heating change (Fig. 3)

NOTE

Cooling and heating mode changes are only available when all indoor units are stopped.

<Operation>

The (Mode) button can be used to change between heating and cooling operation.

 The display indicates the operating mode of the indoor unit with the lowest unit No.

• All units test run (Fig. 4)

<Operation>

The \bigcirc (Check) button can be used to start and stop a test run for all indoor units.

- Press and hold for 4 seconds to turn ON.
 During the test run "TEST" is displayed.
- The status of test runs performed from the indoor unit remote controller is not displayed on the outdoor unit maintenance remote controller.

Double-speed

• Do not use for actual operation. (Doing so may damage the devices.)

<Operation>

The timer button can be used to change between double-speed and normal operation.

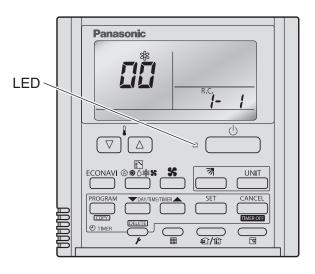


Fig. 3

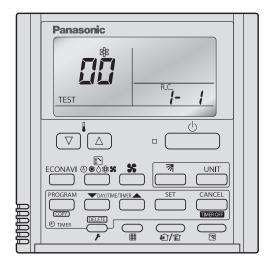


Fig. 4

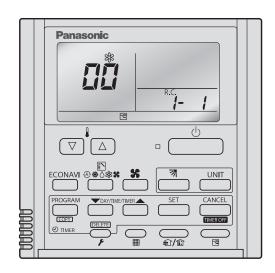


Fig. 5

■ Display (functions)

• Use the temperature setting riangle and riangle buttons to change the item code.

① Item code	② Item	Remarks
00	Outdoor unit alarm contents (code): OFF when normal Blinking 8-alarm code display at pre-trip, LED	At initial status
01	No. of indoor units connected in that refrigerant system	
02	Unit. Nos. of connected indoor units in that refrigerant system *2	
03	Operating status of indoor units in that refrigerant system (blinks when alarms occur) *2	
04	Unit Nos. of indoor units in that refrigerant system where the thermostats are ON *2	
05	No. of outdoor units connected in that refrigerant system	No. of connected units: 1
06	Unit Nos. of connected outdoor units in that refrigerant system *2	
07	Operating status of outdoor units in that refrigerant system (blinks when alarms occur) *2	
08		
09		
0A		
0b		
0C		
0d		
0E		
0F		
10	Total compressor operating time (in 1-hr. units) *3	
11		
12		
13		
14		
15		
16	Total power ON time of outdoor unit (in 1-hr. units)	
17	Compressor start count	
18		
19		
FE	Outdoor unit microcomputer firmware version	
FF	Outdoor unit microcomputer software version	

① and ② correspond to Fig. 6 on the next page.

5. Outdoor unit maintenance remote control

③ XX-YY R.C.

Displays the outdoor unit sub-bus address which is currently selected.

XX = Outdoor system address on main bus line (1 - 30)

YY = Outdoor unit sub-bus address (1 - 4)

"1" appears when there is only 1 outdoor unit.

Locations where 1, 2 and 3 are displayed as shown in Fig. 6.

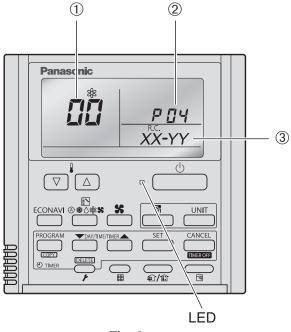
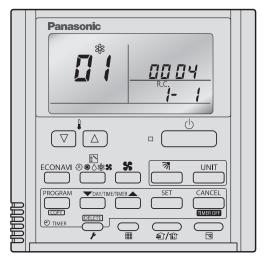
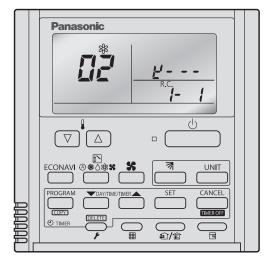


Fig. 6

<Sample displays>



01: <No. of connected indoor units> 4 units connected



02: <Unit Nos. 1, 2, 3, and 4 are connected>

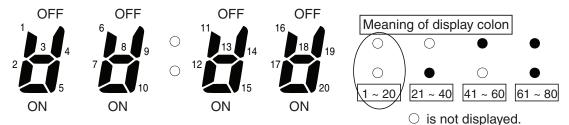
Fig. 7

Fig. 8

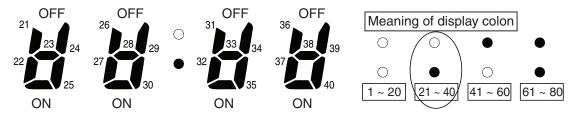
■ Concerning the 7-segment, 4-digit display remote controller timer display

The unit Nos. of connected units are indicated by four 7-segment digits () and a colon.

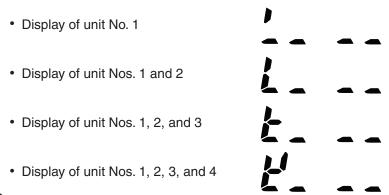
● Display of unit Nos. 1 – 20



• Display of unit Nos. 21 - 40



- The meaning of the colon changes in the same way to indicate unit Nos. up to 80.
- Sample displays of the connected indoor unit Nos.:



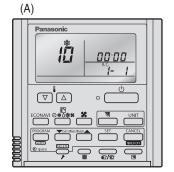
NOTE

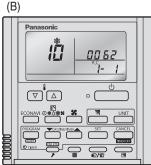
The change of the colon display (between unit Nos. 1-20 to unit Nos. 21-40) occurs automatically every 10 seconds. (However the display does not change if there are no higher-number units connected.)

To change the display to the higher-number units before 10 seconds have passed, press the (Flap) button.

■ The total compressor operating time is displayed (in 1-hour units) using 8 digits.

- When the first 4 digits are displayed, the top dot of the colon is illuminated. (Figure (A))
- When the last 4 digits are displayed, the colon dot is OFF. (Figure (B))
- The display of the first 4 digits and last 4 digits changes automatically after 10 seconds. The display can also be changed by pressing the (Flap) button.





10: <Compressor's total operating time>(A) and (B) are displayed alternately.(The example here (0000, 0062) indicates 62 hours.)

NOTE

With the outdoor unit maintenance remote controller (when connected to the outdoor unit), the unit remote controller check functions will not operate.

5-10. Monitoring Operations: Display of Indoor Unit and Outdoor Unit Sensor Temperatures

<Operating procedure>

① Press and hold the (Check) button and buttons simultaneously for 4 seconds or longer to engage temperature monitor mode.

During temperature monitoring, \nearrow is illuminates.

(The display and operations are the same as for monitor mode using the indoor unit remote controller.)

② Press the ____ button and select the indoor unit to monitor.

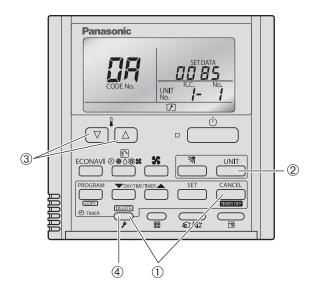
③ Press the temperature setting △ and ▽ buttons and select the item code of the temperature to monitor.

The unit No. of the selected indoor unit, and the temperature data, are displayed.

4 To end monitoring, press the $\begin{picture}(60,0)\put(0,0){\line(0,0){15}}\put(0,0){\$

NOTE The display does not blink.

5. Outdoor unit maintenance remote control



■ Display of unit No. 1 (main unit)

	Item code	Meaning of Code
Indoor unit data	02	Indoor unit intake temp.
	03	Indoor unit heat exchanger temp. (E1)
	04	Indoor unit heat exchanger temp. (E2)
	05	-
	06	Indoor unit discharge temp.
	07	-
	08	-
	09	
Outdoor unit data	0A	Discharge temp. (TD)
	0b	-
	0C	-
	0d	Intake temp. (TS)
	0E	Outdoor unit heat exchanger temp. (C1)
	0F	Outdoor unit heat exchanger temp. (C2)
	10	-
11		Outdoor air temp. (TO)
	12	-
	13	-
14		Current value
	15	Outdoor MV value
	19	Frequency

^{*} Depending on the model, some items may not be displayed.

5-11. Mounting the Outdoor Unit Alarm History : Display of Outdoor Unit Alarm History

- · Displays outdoor unit alarms only.
- Check the indoor unit alarm histories separately using the indoor unit remote controllers or other control device.

<Operating procedure>

① Press and hold the (Check) button and button simultaneously for 4 seconds or longer to engage outdoor unit alarm history mode.

During temperature monitoring, \digamma illuminates.

The display and operations are the same as for the alarm history monitor performed from the indoor unit remote controller. However the "UNIT No." display shows the outdoor unit address.

- ② Press the button and select the outdoor unit for which to monitor the alarm history.
- $\ \$ Press the temperature setting $\ \ \$ and $\ \ \$ buttons and select the item code for the alarm history.

The select outdoor unit address, the item code, and the alarm history (alarm data) are displayed.

The outdoor unit address is displayed as R.C. XX-YY.

System XX = Outdoor unit system address

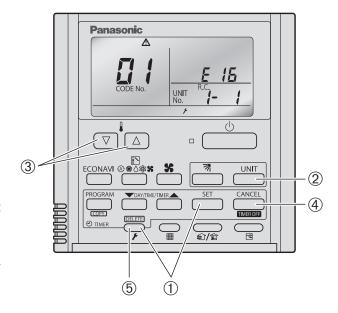
R.C. XX = Outdoor unit system address

YY = Outdoor unit sub-bus address

Item codes 01-08 are displayed. 01 indicates the most recent alarm.

The alarm history displays the alarm code. (If no alarm are present, then -- -- is displayed.)

- 4 To clear the alarm history, press the button. (The outdoor unit alarm history will be cleared.)
- (5) To exit, press the (Check) button. The display returns to the normal display.



5

5-12. Setting Modes: Setting the Outdoor Unit EEPROM

■ Setting mode 1

<Operating procedure>

- Teress and hold the (Check) button and (Ventilation) button simultaneously for 4 seconds or longer.
- ② Press the temperature setting △ and ▽ buttons to change the item code. The item codes and setting data are shown in the table below.
- ③ Press the timer time and buttons to change the setting data.

To confirm the changed setting data, press the button.

(At this time, " SETTING " display stops blinking and remains lit.)

During this mode, "sering" is displayed, blinking. The outdoor unit address display section displays "ALL," the item code and number (DN value in the table), and the setting data (6 digits).

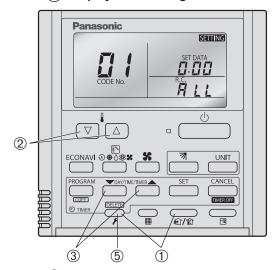
(The setting data is displayed in 6 digits. The display changes between the first 3 digits (Fig. \bigcirc A) and the last 3 digits (Fig. \bigcirc B)).

When the first 3 digits are displayed, the bottom dot of the colon is illuminated.)

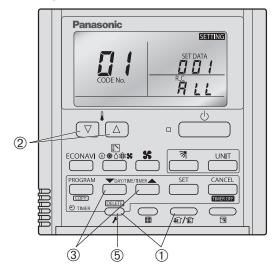
To exit the setting mode, press the (Check) button.

5. Outdoor unit maintenance remote control

(A) Display of first 3 digits



B Display of last 3 digits



(A) and (B) are displayed alternately. (Example shows display of 000 001.)

List of Item Codes

Item code		Parameter
01	Control system schedule	Do not set
02	Control system schedule	Do not set
03	Control system schedule	Do not set
04	Snowfall sensor operation	0 = No sensor, control performed 1 = No sensor, control not performed 2 = Sensor present, control performed 3 = Sensor present, control not performed
05	Outdoor fan quiet mode	Do not set
06	Defrost fan speed selection	Do not set
07	Ignore capacity	0 = Disabled 1 = Ignores capacity ratio
08	Control system schedule	Do not set
09	Control system schedule	Do not set
0A	Control system schedule	Do not set
0b	Control system schedule	Do not set
0C	Forced operation of indoor unit drain pump	0 = Disabled 1 = During cooling only, 2 hours stopped + 20 minutes operating (regardless of whether the unit is running or stopped) 2 = During cooling only, 4 hours stopped + 20 minutes operating (regardless of whether the unit is running or stopped) 3 = At all times, 4 hours stopped + 20 minutes operating 4 = At all times, 2 hours stopped + 20 minutes operating
0d	Odor countermeasure when indoor cooling thermostat is OFF	Do not set
0E	Cool only	0 = Heat pump 1 = Cool only
0F	Control system schedule	Do not set
10	Control system schedule	Do not set
11	Multi-floor installation	Do not set
12	External Electronic Expansion Valve Kit	0 = No 1 = Yes
13	Control system schedule	Do not set
4E	Test mode 1	Do not set
4F	Test mode 2	Do not set
50	Demand 1	40%, 45% 100% 160%
51	Demand 2	40%, 45% 100% 160%
52	Current control level	40%, 45% 100% 160%, -1 (normal: at shipment from factory)
53	Control system schedule	Do not set
54	Control system schedule	Do not set
55	Control system schedule	Do not set
56	Control system schedule	Do not set
57	Control system schedule	Do not set
58	Control system schedule	Do not set
59	Control system schedule	Do not set
5A	Control system schedule	Do not set
5B	Control system schedule	Do not set

 $^{^{\}star}$ Figures in parentheses indicate the data at the time of shipment from the factory.

5. Outdoor unit maintenance remote control

List of Item Codes (continued)

Item code	Parameter			
80	Refrigerant type	407 = R407C 22 = R22 410 = R410A		
81	Outdoor unit capacity*	0 = Disabled 80 : Type 26		
82	Control system schedule	Do not set		
83	Control system schedule	Do not set		
84	3-phase or single-phase	0 = 3-phase 1 = single-phase		
85	Power frequency	Do not set		
86	Control system schedule	Do not set		
87	Control system schedule	Do not set		
88	Control system schedule	Do not set		
89	Crank case heater control	0 = No 1 = Yes		
8A	Control system schedule	Do not set		
8b	Control system schedule	Do not set		
8E	Control system schedule	Do not set		

^(*) Figures represent the capacity data for each model.

- MEMO -

6. TEST RUN

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6-2.	Caution	6-3
6-3.	Test Run Procedure	6-3
6-4.	Items to Check Before the Test Run	6-4
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6-7.	Table of Self-Diagnostic Functions and Corrections	
	(Type F2, U2, T2, K2, U1, K1, T1 and F1)	6-6
6-8.	Examples of Wiring Diagrams	6-7

6. TEST RUN

6-1. Preparing for Test Run

- Before attempting to start the air conditioner, check the following:
- (1) All loose matter is removed from the cabinet especially steel filings, bits of wire, and clips.
- (2) The control wiring is correctly connected and all electrical connections are tight.
- (3) The protective spacers for the compressor used for transportation have been removed. If not, remove them now.
- (4) The transportation pads for the indoor fan have been removed. If not, remove them now.
- (5) The power has been supplied to the unit for at least 5 hours before starting the compressor. The bottom of the compressor should be warm to the touch and the crankcase heater around the feet of the compressor should be hot to the touch. (Fig. 6-1)
- (6) Both the gas and liquid tube service valves are open. If not, open them now. (Fig. 6-2)
- (7) Request that the customer be present for the trial run. Explain the contents of the instruction manual, then have the customer actually operate the system.
- (8) Be sure to give the instruction manual and warranty certificate to the customer.
- (9) When replacing the control PCB, be sure to make all the same settings on the new PCB as were in use before replacement.

The existing EEPROM is not changed, and is connected to the new control PCB.

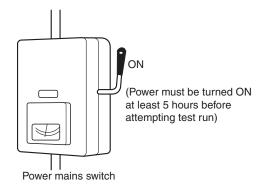


Fig. 6-1

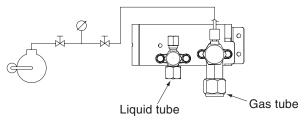


Fig. 6-2

■ Type F2, U2, T2, K2, U1, K1, T1 and F1

6-2. Caution

- This unit may be used in a single-type refrigerant system where 1 outdoor unit is connected to 1 indoor unit.
- The indoor and outdoor unit control PCBs utilize a semiconductor memory element (EEPROM). The settings required for operation were made at the time of shipment.
 Only the correct combination of indoor and outdoor units can be used.
- This test run manual describes primarily the procedure when using the wired remote controller.

6-3. Test Run Procedure

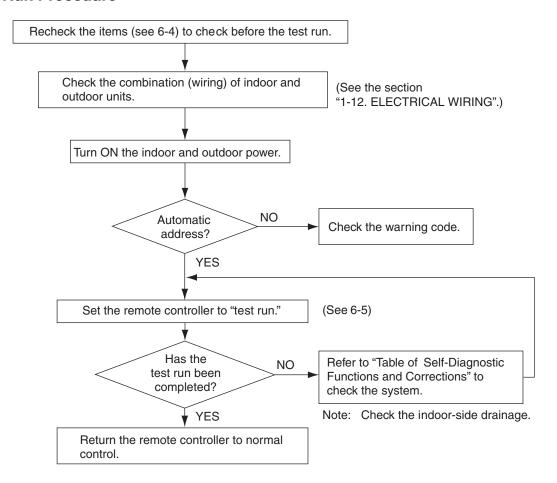


Fig. 6-3

6-4. Items to Check Before the Test Run

- (1) Turn the breaker ON at least 12 hours in advance in order to energize the crankcase heater.
- (2) Fully open the closed valves on the liquid tube and gas tube sides.

6-5. Test Run Using the Remote Controller

<Pre><Pre>cedure of CZ-RTC2>

- (1) Press and hold the remote controller

 button for 4 seconds or longer.

 Then press the

 button.
 - "TEST" appears in the LCD display during the test run.
 - Temperature control is not possible when test run mode is engaged.
 (This mode places a large load on the devices.
 Use it only when performing the test run.)



Note: The outdoor unit will not operate for approximately 3 minutes after the power is turned ON or after it stops operating.



CZ-RTC2

- (3) If normal operation is not possible, a code appears on the remote controller LCD display.

 Refer to the "Table of Self-Diagnostic Functions and Corrections" on the next page, and correct the problem.
- (4) After the test run is completed, press the Dutton again. Check that "TEST" disappears from the LCD display. (This remote controller includes a function that cancels test run mode after 60 minutes have elapsed, in order to prevent continuous test run operation.)
- (5) For the test run of an inverter outdoor unit, operate the compressors for a minimum of 10 minutes.
 - * When performing a test run using a wired remote controller, operation is possible without attaching the cassette-type ceiling panel. ("P09" will not be displayed.)

<Pre><Pre>cedure of CZ-RTC3 / CZ-RTC5>

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



3. Press the _____ button. "TEST" will be displayed on the LCD display.

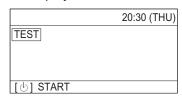
CZ-RTC3 / CZ-RTC5

[①] START

20:30 (THU)

 \triangleright

9



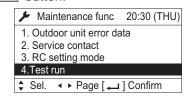
4. Press the button. Test run will be started.

Test run setting mode screen appears on the LCD display.



2. Press the or button to see each menu. If you wish to see the next screen instantly, press the or button.

Select "4. Test run" on the LCD display and press the button.



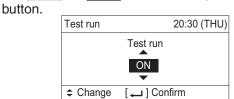
Change the display from OFF to ON by pressing the

the

the or

button. Then press the

□



<Pre><Pre>cedure of CZ-RTC4>

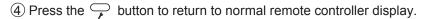
Operates the unit with the thermostat forced ON.

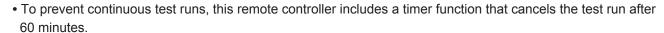
- 1 Press and hold the button for 4 seconds or longer.
- ② "TEST" appears on the remote controller LCD display (Fig. 6-4).
- 3 Press the button to start the test run.
- The temperature cannot be adjusted in Test Run mode. (This mode places a heavy load on the machines. Therefore use it only when performing the test run.)
- The test run can be performed using the HEAT, COOL, or FAN operation modes.



The outdoor units will not operate for approximately 3 minutes after the power is turned ON and after operation is stopped.

• If correct operation is not possible, an error code is displayed on the remote controller LCD display.



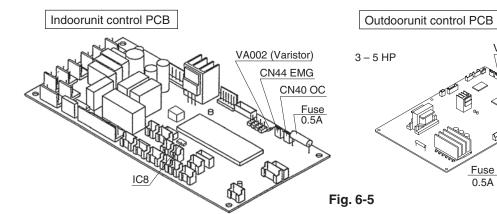




• The operation is possible even if the cassette-type ceiling panel has not been installed. ("P09" display does not occur.)

6-6. Precautions

- Request that the customer be present when the test run is performed. At this time, explain the operation manual and have the customer perform the actual steps.
- Be sure to pass the manuals and warranty certificate to the customer.
- Check that the AC 230 / 208 V power is not connected to the inter-unit control wiring connector terminal.
 - If AC 230 / 208 V is accidentally applied, the indoor or outdoor unit control PCB fuse (0.5A for both indoor and outdoor units) will blow in order to protect the PCB. Correct the wiring connections, then disconnect the 2P connectors (indoor: blue, OC) (outdoor: blue, OC) that are connected to the PCB, and replace them with 2P connectors (indoor: brown, EMG) (outdoor: brown, EMG). (Refer to the figure below.) If operation is still not possible after changing the brown connectors, try cutting the varistor (VA002) (both indoor and outdoor). (Be sure to turn the power OFF before performing this work.)



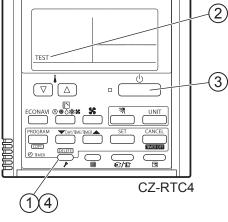


Fig. 6-4

Varistor (black)

OC (blue) connector

Terminal plug (black)

EMG (brown) connector

VA002

Fuse

0.5A

6-7. Table of Self-Diagnostic Functions and Corrections (Type F2, U2, T2, K2, U1, K1, T1 and F1)

			Cause	ISB		
Wired remote controller display	Indoor unit receiver lamp	1:1 connection (single type)	Group connection	Simultaneous-operation multi system (flexible combination)	Control by main-sub remote controllers	Correction
Nothing is displayed	Nothing is displayed	Remote controller is not connected correctly. Indoor unit power is not ON.	Remote controller is not connected with Same as at left indoor unit correctly Indoor unit power is not ON.		 Same as at left 	Connect the remote controller correctly. Turn ON the indoor unit power.
E 0 1 displayed		Automatic address setting has not been completed. Inter-unit control wiring is cut or is not connected correctly. Remote controller is not connected correctly (remote controller receiving failure).	Automatic address setting has not been Same as at left completed. Inter-unit control wiring is cut or is not connected correctly. Remote controller is not connected with indoor unit correctly.		• Same as at left	Check the remote controller and inter-unit control wiring. Perform automatic address setting.
E 0 2 displayed	Operating lamp is blinking.	 Remote controller is not connected correctly (failure in transmission from remote controller to indoor unit). 	Remote controller is not connected with Same as at left indoor unit correctly		Same as at left	Connect the remote controller correctly.
E 0 9 displayed					 2 remote controllers are set as the main remote controller. 	Refer to 11-8-6 Main-sub remote control, and make the correct settings.
E 1 4 displayed				Remote controller crossover wiring is cut or same as at left is not connected correctly.	Same as at left	Check the remote controller crossover wiring. Perform automatic address setting again.
E 0 4 displayed		Indoor-outdoor inter-unit wiring is not connected correctly.	Same as at left	Same as at left	 Same as at left 	Connect the wiring correctly.
E 0 6 displayed	Standby lamp		 Indoor-outdoor inter-unit wiring is cut or Same as at left is not connected correctly. 		Same as at left	Refer to 11-8 System Control, and make the correct settings.
E15 displayed	ıs biinking.	 Indoor unit capacity is too low. 	Same as at left	Same as at left	 Same as at left 	Check that the total capacities of the indoor and outdoor units are appropriate.
E 1 6 displayed		 Indoor unit capacity is too high. 				
E 2 0 displayed		 No serial signal is being received at all from the indoor units. 				Check that the indoor unit power is ON, and that the inter-unit control wiring is connected correctly.
P 0 5 displayed	Operation lamp and Standby lamp are blinking alternately.	 Inter-unit circuit or open phase in the outdoor unit power Insufficient gas 	Reversed phase or open phase in the 3-phase power at one of the outdoor units in the group	Reversed phase or open phase in the outdoor unit 3-phase power	 Same as at left 	Reverse 2 phases of the outdoor unit 3-phase power and connect them correctly.
L 0 2 displayed L 1 3 displayed	Both the Operation lamp and Standby	 Indoor-outdoor unit type mismatch 	Same as at left	Same as at left		Check that the indoor and outdoor unit types are correct.
L 0 7 displayed	together.			 Remote controller crossover wining is connected Same as at left to the indoor unit, however it is set for individual operation. 	 Same as at left 	Perform automatic address setting.
P 0 9 displayed	Timer lamp and Standby lamp are blinking alternately.	The indoor unit ceiling panel connector is not connected correctly.	Ceiling panel connector at one of the indoor units in the group is not connected correctly.	Indoor unit ceiling panel connector is not connected correctly.	 Same as at left 	Connect the indoor unit ceiling panel connector correctly.

6-8. Examples of Wiring Diagrams

Basic wiring diagram 1

Single-type system

• Be careful to avoid miswiring when connecting the wires. (Miswiring will damage the units.)

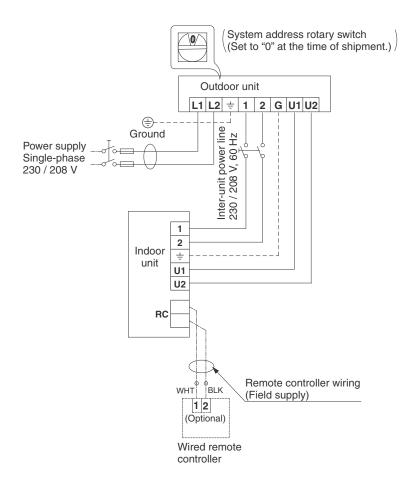


Fig. 6-6

Basic wiring diagram 2

Group control (when a central control device is not used)

Simultaneous-operation multi system

A maximum of 8 indoor units can be connected to 1 remote controller.

Set the system address (refrigerant tubing system address) before turning on the remote power switch.

(Refer to "Setting the system addresses" on next page.)

(Set using the system address rotary switch on the outdoor unit control PCB.)

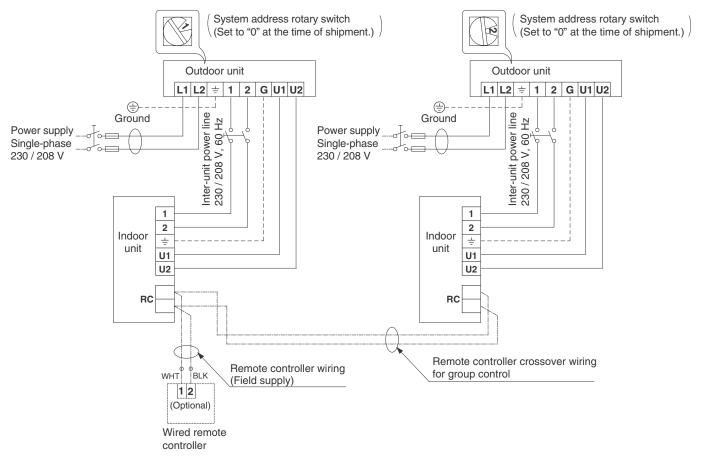


Fig. 6-7a

(Wiring procedure)

(1) Connect the remote controller to the indoor unit remote controller wiring.

Use the remote controller connection wire coming from the indoor unit, and field-supply wire and a wire joint to complete the connection as shown in Fig. 6-7b. The remote controller connection wire coming from the indoor unit includes a connector, therefore cut off the connector and use the wire joint to connect the wire from the remote controller.

(2) Connect the indoor units (U1, U2) and the outdoor units (1, 2).

Connect the other outdoor units and indoor units (with different refrigerant systems) in the same way. Connect the inter-unit control wiring to the indoor units (U1, U2) for each refrigerant system. (Inter-unit control wiring)

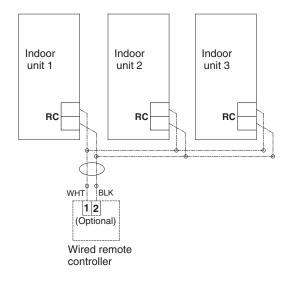
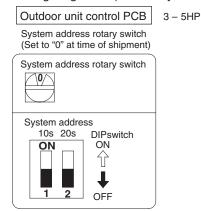


Fig. 6-7b

Setting the outdoor unit system addresses

For basic wiring diagram 2 (Set the system addresses: 1, 2, 3...)



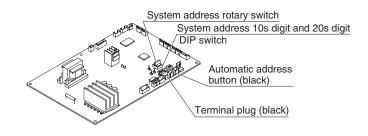


Fig. 6-8

System address No.	System address (2P DIP swit	•	_	ldress 1s place ry switch)
0 Automatic address (Setting at shipment = "0")	Both OFF	ON OFF	0	"0" setting
1 (If outdoor unit is No. 1)	Both OFF	ON OFF		"1" setting
2 (If outdoor unit is No. 2)	Both OFF	ON Û		"2" setting
11 (If outdoor unit is No. 11)	10s digit ON	ON Û OFF		"1" setting
21 (If outdoor unit is No. 21)	20s digit ON	ON Î OFF		"1" setting
30 (If outdoor unit is No. 30)	10s digit and 20s digit ON	ON OFF	0	"0" setting

Automatic address setting using the remote controller

When the outdoor unit shown in "Basic wiring diagram 2" is used for group control of multiple outdoor units, use the remote controller to perform automatic address setting. (During automatic address setting, "SETTING" blinks on the remote controller display.)

- Item code "AA" appears: All systems automatic address setting.
 (Automatic address setting is performed in sequence for all outdoor units from No. 1 to No. 30. When automatic address setting is completed, the units return to normal stopped status.)
- Selecting each refrigerant system individually for automatic address setting
- ---Automatic address setting for each system: Item code "A1"

<Pre><Pre>cedure of CZ-RTC2>

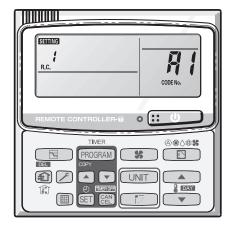
- 1. Press the remote controller timer time <u>button</u> and <u>button</u> button simultaneously. (Press and hold for 4 seconds or longer.)
- 2. Next, press either the temperature setting ▲ or ▼ button. (Check that the item code is "A1".)
- 3. Use the UNIT button to set the system No. to perform automatic address setting.
- 4. Then press the SET button.

(Automatic address setting for one refrigerant system begins.)

(When automatic address setting for one system is completed, the system returns to normal stopped status.) <Approximately 4 – 5 minutes is required.>

(During automatic address setting, "SETTING" is displayed on the remote controller. This message disappears when automatic address setting is completed.)

5. Repeat the same steps to perform automatic address setting for each successive system.



<Pre><Pre>cedure of CZ-RTC3 / CZ-RTC5>

1. Keep pressing the ______, ____ and _____ buttons simultaneously for 4 or more seconds.

The "Maintenance func" screen appears on the LCD display.

Press the ▼ or button to see each menu.

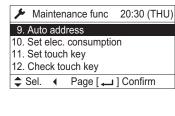
If you wish to see the next screen instantly, press the $\begin{tabular}{c} \end{tabular}$ or $\begin{tabular}{c} \end{tabular}$ button.

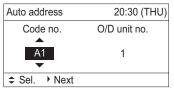
Select "9. Auto address" on the LCD display and press the button.

3. The "Auto address" screen appears on the LCD display.

Change the "Code no." to "A1" by pressing the

▼ or ▲ button.







CZ-RTC3 / CZ-RTC5

4. Select the "O/D unit no." by pressing the
or button.

Select one of the "O/D unit no." for automatic address by pressing the

▼ or
▲ button.

Then press the Jutton.

Approximately about 10 minutes are required.

When automatic address setting is completed, the units return to normal stopped status.

<Pre><Pre>cedure of CZ-RTC4>

1) Press the remote controller timer time button and button at the same time.

(Press and hold for 4 seconds or longer.)

- ② Next, press either the temperature setting ▽/△ button. (Check that the item code is "A1".)
- (3) Use either the button to set the system No. to perform automatic address setting.
- (4) Then press the ____ button.

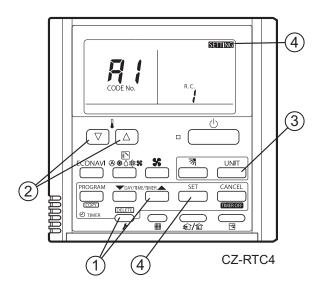
(Automatic address setting for one refrigerant system begins.) (When automatic address setting for one system is completed, the system returns to normal stopped status.)

<Approximately 4 – 5 minutes is required.>

(During automatic address setting, " **SETTING**" is displayed on the remote controller.

This message disappears when automatic address setting is completed.)

(5) Repeat the same steps to perform automatic address setting for each successive system.



Indicating (marking) the indoor and outdoor unit combination number

Indicate (mark) the number after automatic address setting is completed.

- (1) So that the combination of each indoor unit can be easily checked when multiple units are installed, ensure that the indoor and outdoor unit numbers correspond to the system address number on the outdoor unit control PCB, and use a magic marker or similar means which cannot be easily erased to indicate the numbers in an easily visible location on the indoor units (near the indoor unit nameplates).
 - Example: (Outdoor) 1 (Indoor) 1-1...(Outdoor) 2 (Indoor) 2-2...
- (2) These numbers will be needed for maintenance. Be sure to indicate them.
 - * Use the remote controller to check the addresses of the indoor units. Press and hold the button and button for 4 seconds or longer (simple settings mode). Then press the button and select the indoor address. (Each time the button is pressed, the address changes as follows: 1-1, 2-1,) The indoor unit fan operates only at the selected indoor unit. Confirm that correct fan is operating, and indicate address on the indoor unit.

Press the \nearrow button again to return to the normal remote controller mode.

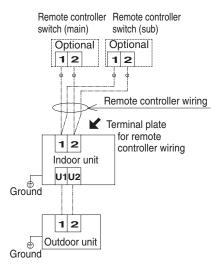
For details, refer to the separate handbook.

Main-sub remote controller control

Control using 2 remote controller switches

Main-sub remote controller control refers to the use of 2 remote controllers to control 1 indoor unit. (A maximum of 2 remote controllers can be connected.)

Connecting 2 remote controllers to control 1 indoor unit



Remote controller setting mode

To set the remote controller main/sub setting or change the sensor, follow the steps below.

<Pre><Pre>cedure of CZ-RTC2>

- ① Press both and buttons on the remote controller for more than 4 seconds together.
- ② Select CODE No. with ▲ / ▼ (♣) buttons.
- ③ Change DATA with ♠/(▼) (TIMER) buttons.
- 4 Press SET. Finally, press 7.
- * DATA is memorized in the RC. (DATA setting will not be changed even when the power is turned off.)
- * Make sure to set [Normal] for RC. CK.

CODE	ITFM	SET DATA	
No.	I I EIVI	00 00	0001
01	RC. Main/Sub	Sub	Main
82	Clock display	24 hours	12 hours (AM/PM)
80	RC. CK	RC. CK	Normal
ΩR	Room temperature sensor	Main unit	RC

<Pre><Pre>cedure of CZ-RTC3 / CZ-RTC5>

1 Keep pressing the , and buttons simultaneously for 4 or more seconds.

The "Maintenance func" screen appears on the LCD display.

② Press the ▼ or ▲ button to see each menu.

Select "3. RC. setting mode" on the LCD display and press the ⊸ button.

③ The "RC. setting mode" screen appears on the LCD display.

Change the "Code no." by pressing the ▼ or ▲ button.

4 Select the "Set data" by pressing the or button.
Select one of the "Set data" by pressing the or button.
Then press the button.

Maintenance func	20:30 (THU)			
Outdoor unit error data Service contact				
3. RC. setting mode				
4. Test run				
\$ Sel. ◆ Page [←] Confirm			

RC. setting mode	20:30 (THU)		
Code no.	Set data		
01	0001		
Sel. → Next			

Code	ITFM	S	et Data
no.	I I ⊏IVI	0000	0001
01	Main/sub	Sub	Main
02	Clock type	24 hours	12 hours (AM/PM)
32	Temp sensor setting	Main unit	RC

<Pre><Pre>cedure of CZ-RTC4>

1) Press the remote controller button and button at the same time.

(Press and hold for 4 seconds or longer.)

- ② Select the "CODE No." by pressing the temperature setting ▼ / △ button.
- 3 Select the "SET DATA" by pressing the ▼DAY/TIME/TIMER button.
- 4 Then press the $\stackrel{\text{set}}{=}$ button. Finally, press the $\stackrel{\text{set}}{\not}$ button.

CODE	ITEM	SET DATA		
No.	I I EIVI	00 00	00 0 1	
01	Main/sub	Sub	Main	
02	Clock type	24 hours	12 hours (AM/PM)	
08	RC. CK	RC. CK	Normal	
ΩA	Room temperature sensor	Main unit	RC	