# PFA012D628

## (3) Ceiling suspended type (FDE)

This manual is for the installation of an indoor unit.

For electrical wiring work (Indoor), refer to page 221. For remote control installation, refer to page 233. For wireless kit installation, refer to page 594. For electrical wiring work (Outdoor) and refrigerant pipe work installation for outdoor unit, refer to page 245.

## SAFETY PRECAUTIONS

- Read the "SAFETY PRECAUTIONS" carefully first of all and then strictly follow it during the installation work
- in order to protect yourself. The precautionary items mentioned below are distinguished into two levels, <u>AWARNING</u> and <u>ACAUTION</u>. The production of the second s
- Both mentions the important items to protect your health and safety so strictly follow them by any means.
- After completing the installation, do commissioning to confirm there are no abnormalities, and explain to the customers about "SAFETY PRECAUTIONS", correct operation method and maintenance method (air filter cleaning, operation method and temperature setting method) with user's manual of this unit. Ask your customers to keep this installation manual together with the user's manual. Also, ask them to hand over the user's manual to the new user when the owner is changed.

# **MARNING**

Installation should be performed by the specialist.	
If you install the unit by yourself, it may lead to serious trouble such as water leakage, electric shock, fire, and injury due to overturn	of the unit.
Install the system correctly according to these installation manuals.	
Improper installation may cause explosion, injury, water leakage, electric shock, and fire.	•
When installing in small rooms, take prevention measures not to exceed the density limit of refriger event of leakage, referred by the formula (accordance with ISO5149).	ant in the
If the density of refrigerant exceeds the limit, please consult the dealer and install the ventilation system, otherwise oxygen can occur, which can cause serious accidents.	lack of
Use the genuine accessories and the specified parts for installation.	
If parts unspecified by our company are used it could cause water leakage, electric shock, fire, and injury due to overturn	of the unit.
Ventilate the working area well in case the refrigerant leaks during installation. If the refrigerant contacts the fire, toxic gas is produced.	
Install the unit in a location that can hold heavy weight.	
Improper installation may cause the unit to fall leading to accidents.	U
Install the unit properly in order to be able to withstand strong winds such as typhoons, and earthque Improper installation may cause the unit to fall leading to accidents.	iakes.
Do not mix air in to the cooling cycle on installation or removal of the air-conditioner.	
If air is mixed in, the pressure in the cooling cycle will rise abnormally and may cause explosion and injuries.	$\bigcirc$
•Be sure to have the electrical wiring work done by qualified electrical installer, and use exclusive circles and the electrical wiring work done by the electrical installer.	cuit.
Power source with insufficient capacity and improper work can cause electric shock and fire.	U
Use specified wire for electrical wiring, fasten the wiring to the terminal securely, and hold the cable so order not to apply unexpected stress on the terminal.	curely in
Loose connections or hold could result in abnormal heat generation or fire.	
Arrange the electrical wires in the control box properly to prevent them from rising. Fit the lid of the panel property.	services
Improper fitting may cause abnormal heat and fire.	
Check for refrigerant gas leakage after installation is completed.	
It the retrigerant gas leaks into the house and comes in contact with a tan heater, a stove, or an oven, toxic gas is proc	lucea.
Use the specified pipe, flare nut, and tools for R410A.     Use a water and a side of the section and a side of the s	
Using existing parts (R22) could cause the unit railoue and serious accident due to explosion of the couling cycle.	
Ignten the hare nut according to the specified method by with torque wrench. If the flare nut were tightened with excess torque, it could cause burst and refrigerant leakage after a long period.	•
O not put the drainage pipe directly into drainage channels where poisonous gases such as sulfide gas of Poisonous gases will flow into the room through drainage pipe and seriously affect the user's health and safety. This of cause the corrosion of the indoor unit and a resultant unit failure or refrigerant leak.	an also
Connect the pipes for refrigeration circuit securely in installation work before compressor is operate	ed.
If the compressor is operated when the service valve is open without connecting the pipe, it could cause explosion and to abnormal high pressure in the system.	injuries due 🙂
•Stop the compressor before removing the pipe after shutting the service valve on pump down work.	
If the pipe is removed when the compressor is in operation with the service valve open, air would be mixed in the refriger and it could cause explosion and injuries due to abnormal high pressure in the cooling cycle.	ation circuit 😶
•Only use prescribed option parts. The installation must be carried out by the qualified installer.	
If you install the system by yourself, it can cause serious trouble such as water leaks, electric shocks, fire.	•
Do not repair by yourself. And consult with the dealer about repair.	$\bigcirc$
improper repair may cause water leakage, electric snock or fire.	<u> </u>
Consult the dealer or a specialist about removal of the air-conditioner. Improper installation may cause water leakage, electric shock or fire.	
Turn off the nower source during servicing or inspection work	
If the power is supplied during servicing or inspection work, it could cause electric shock and injury by the operating f	an. 🛡
Do not run the unit when the panel or protection guard are taken off.	
Touching the rotating equipment, hot surface, or high voltage section could cause an injury to be caught in the machin burned, or electric shock.	ie, to get
Shut off the power before electrical wiring work.	
It could cause electric shock, unit failure and improper running.	

	▲ CAUTION	
	Perform earth wiring surely.	
	Lo not connect the earth winning to the gas pipe, water pipe, lightning rod and telephone earth winning. Improper earth could cause unit failure, electric shock and fire due to a short circuit.	a
	Earth leakage breaker must be installed. If the earth leakage breaker is not installed, it can cause fire and electric shocks.	Ð
	Use the circuit breaker of correct capacity. Circuit breaker should be the one that disconnect all poles under over current.	•
	Using the incorrect one could cause the system failure and fire.	•
	Do not use any materials other than a tuse of correct capacity where a tuse should be used. Connecting the circuit by wire or copper wire could cause unit failure and fire.	$\bigcirc$
	Do not install the indoor unit near the location where there is possibility of flammable gas leakages. If the gas leaks and gathers around the unit, it could cause fire.	$\bigcirc$
	Do not install and use the unit where corrosive gas (such as sulfurous acid gas etc.) or flammable gas (such as thinner, petroleum etc.) may be generated or accumulated, or volatile flammable substances are handled. It could cause the corrosion of that exchance treakage of plastic posts etc. An inflammable gas could cause fire.	$\bigcirc$
	• Secure a space for installation, inspection and maintenance specified in the manual.	0
┠	Insufficient space can result in accident such as personal injury due to falling from the installation place.     Do not use the indoor unit at the place where water splashes such as laundry.	
╟	Indoor unit is not waterproof. It could cause electric shock and fire.	$\odot$
	Do not use the indoor unit for a special purpose such as tood storage, cooling for precision instrument, preservation of animals, plants, and a work of art. It could cause the damage of the items.	$\bigcirc$
	Do not install nor use the system near equipments which generate electromagnetic wave or high harmonics. Equipments like inverter equipment, private power generator, high-frequency medical equipment, or telecommunication equipment might influence the air-conditioner and cause a malfunction and breakdown. Or the air-conditioner might influence medical equipments or telecommunication equipments, and obstruct their medical activity or cause jamming.	$\bigcirc$
	Do not install the remote control at the direct sunlight. It could cause breakdown or deformation of the remote control.	$\bigcirc$
	• Do not install the indoor unit at the place listed below.	-
	Places where fammable gas could leak.     Places where fammable gas could park of the arcontitomer are generated such as sulfide gas, choride gas, acid, alkali or ammonic atmospheres.     Places exposed to il mist or steam directly.     Place where and shines and shines	$\odot$
	Places where machinery which generates high harmonics is used.     Altitude over 1000m	
	Do for this of the installation manual for each model because below (be suite to instant the modor bint according to the installation manual for each model because below (be suite to instant the modor bint according to the installation)     Locations with any obstacles which can prevent inlet and outlet air of the unit     Locations where what on can be amplified beto insufficient strength of structure.     Locations where the infrared receiver is exposed to the direct sunlight or the strong light beam. (in case of the infrared specification unit)     Locations where a dirating e cannot the strong below the strong light beam. (in case of the infrared specification unit)     Locations where a dirating e cannot run off safely.     Locations where drainage cannot run off safely.     It can affect performance or function and etc	$\bigcirc$
	Do not put any valuables which will break down by getting wet under the air-conditioner. Condensation could drop when the relative humidity is higher than 80% or drain pine is clopped and it damages user's belongings.	$\bigcirc$
┠	<ul> <li>Do not use the base frame for the outdoor unit which is corroded or damaged after a long period of use.</li> <li>No not use the unit fullied turn and islam.</li> </ul>	$\widetilde{\bigtriangledown}$
	Pay attention not to damage the drain pan by weld sputter when brazing work is done near the unit. If sputter entered into the unit during brazing work, it could cause damage (pinhole) of drain pan and leakage of water. To avoid damaning keen the indore unit nacked or cover the indore unit	0
	Install the drain pipe to drain the water surely according to the installation manual.	
	Improper connection of the drain pipe may cause dropping water into room and damaging user's belongings. Do not share the drain pipe for indoor unit and GHP (Gas Heat Pump system) outdoor unit. Toxic exhaust gas would flow into room and it might cause serious damage (some poisoning or deficiency of oxygen) to	
	users nearm and safety. Be sure to perform air tightness test by pressurizing with nitrogen gas after completed refrigerant piping work. If the density of refrigerant exceeds the limit in the event of refrigerant leakage in the small room, lack of oxygen can	
╟	For drain pipe installation, be sure to make descending slope of greater than 1/100, not to make traps,	
	and not to make air-bleeding. Check if the drainage is correctly done during commissioning and ensure the space for inspection and maintenance	$\otimes$
╟	Ensure the insulation on the pipes for refrigeration circuit so as not to condense water.	0
┞	Incomplete insulation could cause condensation and it would wet ceiling, floor, and any other valuables.  Do not install the outdoor unit where is likely to be a next for insects and small animals.	
	Insects and small animals could come into the electronic components and cause breakdown and fire. Instruct the user to keep the surroundings clean.	$\bigcirc$
	Pay extra attention, carrying the unit by hand. Carry the unit with 2 people if it is heavier than 20kg. Do not use the plastic straps but the grabbing place, moving the unit by hand. Use protective gives is notifer to avoid injury by the aluminum fin.	0
	Make sure to dispose of the packaging material. Leaving the materials may cause injury as metals like nail and woods are used in the package.	0
┠	<ul> <li>Do not operate the system without the air filter.</li> </ul>	$\overline{\Diamond}$
╟	It may cause the breakdown of the system due to clogging of the heat exchanger.  Do not touch any button with wet hands.	X
┞	It could cause electric shock.  Do not touch the refrigerant piping with bare hands when in operation	씱
	The pipe during operation would become very hot or cold according to the operating condition, and it could cause a burn or frostbite.	$\odot$
	Do not clean up the air-conditioner with water. It could cause electric shock.	$\bigcirc$
	Do not turn off the power source immediately after stopping the operation.      Be sure to wait for more than 5 minutes. Otherwise it could source water ladence or head down	$\bigcirc$
╟	Do not control the operation with the circuit breaker.	
	It could cause fire or water leakage. In addition, the fan may start operation unexpectedly and it may cause injury.	S



# **5**Refrigerant pipe

### Caution

- Be sure to use new pipes for the refrigerant pipes. Use the flare nut attached to the product or a nut compatible with JIS B 8607, Class 2.
- Regarding whether existing pipes can be reused or not, and the washing method, refer to the instruction manual of the itdoor unit, catalogue or technical data



## 6 Drain pipe

The drain pipes may pull out either from back, right or left side. Caution

- Install the drain pipe according to the installation manual in order to drain properly.
- Imperfection in draining may cause flood indoors and wetting the household goods, etc. Do not put the drain pipe directly into the ditch where toxic gas such as sulfur, the other harmful and inflammable gas is generated. Toxic gas would flow into the room and it would cause serious damage to user's health and safety (some poisoning or deficiency
- of oxygen). In addition, it may cause corrosion of heat exchanger and bad smell. Connect the pipe securely to avoid water leakage from the joint.
- Insulate the pipe properly to avoid condensation drop.
- Check if the water can flow out properly from both the drain outlet on the indoor unit and the end of the drain pipe after installation.
- Make sure to make descending slope of greater than 1/100 and do not make up-down bend and/or trap in the midway. In addition, do not put air vent on the drain pipe. Check if water is drained out properly from the pipe during commissioning. Also, keep sufficient space for inspection and maintenance.

## Work procedure

- 1. Insert drain hose completely to the base, and tighten the drain hose clamp securely. (adhesive must not be used.)
- When plumbing on the left side, move the rubber plug and the cylindrical insulating materials by the pipe connecting hole on the
- left side of the unit to the right side.
- occur upon removal of a drain plug. Fix the drain hose at the lowest point with a
  - hose clamp supplied as an accessory. % Give a drain hose a gradient of 10mm as illustrated in the right drawing by laying it without leaving a slack.
- Take head of electrical cables so that they may not run beneath the drain hose ▲ A drain hose must be clamped down with a hose clamp.
- There is a possibility that drain water overflows
- Connect VP20(prepare on site) to drain hose. (adhesive must not be used.) % Use commercially available rigid PVC general pipe VP20 for drain pipe.
- Do not to make the up-down bending and trap in the mid-way while assum-ing that the drain pipes is downhill. (more than 1/100)
- Never set up air vent.5. Insulate the drain pipe.
- Insulate the drain hose clamp with the heat insulation supplied as accessories. When the unit is installed in a humid place, consider precautions against dew condensation such as heat insulation for the drain pipe.

• After installation of drain pipe, make sure that drain system work in good condition and no water leakage from joint and drain pan. Do drain test even if installation of heating season.

## Wiring-out position and wiring connection

- Electrical installation work must be performed according to the installation manual by an electrical installation service provider qualified by a power provider of the country, and be executed according to the technical standards and other regulations applicable to electrical installation in the country. Be sure to use an exclusive circuit. Use specified cord, fasten the wiring to the terminal securely, and hold the
- cord securely in order not to apply unexpected stress on the terminal. Be sure to do D type earth work.
- For the details of electrical wiring work, see attached instruction manual for electrical wiring work.
- Remove wiring from clips. Remove the control box (Screw ①, ②pcs).
- Pull out the control box by sliding along the groove on the bracket (Direction (A)→(B)).
- Remove the lid of control box (Screw 2, 2pcs).
- Hold each wiring inside the unit and connect to the terminal block surely.
- Fix the wiring by clamp. Install the lid of control box (Screw 2, 2pcs).
- Return the control box to the original place by sliding along the groove on the bracket (Direction (B)  $\rightarrow$  (A).
- 9. Install the removed parts at their original places.
- %1 Wiring for the signal receiving section of wireless kit (Optional) are connected to the X and Y terminals on the terminal block (the site connection side), when the indoor unit is shipped from the factory.

It is not necessary to disconnect these wiring when wired remote control is connected. When the wired/wireless kits are used together, it becomes necessary to set the slaves and remote control.



# PSB012D999

# (2) FDTC, FDE, FDUM series

Electrical wiring work must be performed by an electrician qualified by a local power provider according to the electrical installation technical standards and interior wiring regulations applicable to the installation site

#### Security instruc

- Read the "SAFETY PRECAUTIONS" carefully first of all and then strictly follow it during the installation work in order to protect yourself.
- The precautionary items mentioned below are distinguished into two levels.
   MWARNING and ACAUTION .

[AWARNING] : Wrong installation would cause serious consequences such as injuries or death. ACAUTION : Wrong installation might cause serious consequences depending on circumstances. Both mentions the important items to protect your health and safety so strictly follow them by any means.

The meanings of "Marks" used here are as shown on the right:

Never do it under any circumstances. Accord with following items. Otherwise, there will be the risks of electric shock and fire caused by overheating or short circuit.

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Be sure to have the electrical wiring work done by qualified electrical installer, and use exclusive circuit. Durate exclusive circuit.	0
<ul> <li>Use specified wire for electrical wiring, fasten the wiring to the terminal securely, and hold the cable securely in order not to apply unexpected stress on the terminal. Loose connections or hold could result in abnormal heat generation or fire.</li> </ul>	0
Arrange the electrical wires in the control box properly to prevent them from rising. Fit the lid of the services panel property. Improper fitting may cause abnormal heat and fire.	0
<ul> <li>Use the genuine option parts. And installation should be performed by a specialist.</li> <li>If you install the unit by yourself it could cause water leakane, electric shock and fire</li> </ul>	0
<ul> <li>Do not repair by yourself. And consult with the dealer about repair. Improper repair may cause water leakage, electric shock or fire.</li> </ul>	$\overline{\bigcirc}$
Consult the dealer or a specialist about removal of the air-conditioner. Improper installation may cause water leakage, electric shock or fire.	0
<ul> <li>Turn off the power source during servicing or inspection work.</li> <li>If the power is supplied during servicing or inspection work, it could cause electric shock and injury by the operating fan.</li> </ul>	0
Shut off the power before electrical wiring work. It could cause electric shock, unit failure and improper running.	0
<b>∆</b> CAUTION	
Perform earth wiring surely. Do not connect the earth wiring to the gas pipe, water pipe, lightning rod and telephone earth wiring. Improper earth could cause unit failure and electric shock due to a short circuit.	•
Earth leakage breaker must be installed. If the earth leakage breaker is not installed, it can cause electric shocks.	0
<ul> <li>Make sure to install earth leakage breaker on power source line. (countermeasure thing to high harmonics.) Absence of breaker could cause electric shock.</li> </ul>	0
Use the circuit breaker of correct capacity. Circuit breaker should be the one that disconnect all poles under over current. Using the incorrect one could cause the system failure and fire.	0
Do not use any materials other than a fuse of correct capacity where a fuse should be used. Connecting the circuit by wire or copper wire could cause unit failure and fire.	$\bigcirc$
Use power source line of correct capacity. Using incorrect capacity one could cause electric leak, abnormal heat generation and fire	
Do not mingle solid cord and stranded cord on power source and signal side terminal block. In addition, do not mingle difference capacity solid or stranded cord. Inappropriate cord setting could cause loosing screw on terminal block, bad electrica contact, smoke and fre.	$ \odot$
• Do not turn off the power source immediately after stopping the operation. Be sure to wait for more than 5 minutes. Otherwise it could cause water leakage or breakdown.	$\bigcirc$
Do not control the operation with the circuit breaker.     It could cause fire or water leakage. In addition, the fan may start operation     unexpectedly and it may cause injury	$\bigcirc$

#### Control mode switching

•	The control content of	indoor uni	ts can be switched in following way. ( is the default setting)
	Switch No.	Contro	I Content
	SW2	Indoor	unit address (0-Fh)
	SW5-1	Maste	r/Slave Switching (plural /Slave unit Setting)
	SW5-2	WIGSTO	volave ownenning (planar volave unit octaing)
	SW6-1-4	Model	capacity setting
	CW7 1	ON	Operation check, Drain motor test run
	3w/ 1	0FF	Normal operation

# **DElectrical Wiring Connection**

- Electrical wiring work must be performed by an electlician an gualified by a local power provider. These wiring specifications are determined on the assumption that the following instructions are observed:
- ItsUIDCIONS afe OUSPEVPCU: (0) Do not use corisot other than cooper ones. Do not use any supply line lighter than one specified in parentheses for each type below. -braided cord; code designation 60245 IEC 51), if allowed in the relevant part 2; -ordinary bough rubber sheathed cord (code designation 60245 IEC 53); -flatt win finsel cord (code designation 60227 IEC 41); -ordinary polying (chind's beathed cord (code designation 60227 IEC 53); 2) Connect the power supply to the outfoor unit. 3) Pray exits attention so as a not to confuse signal line and power source line connection, because an error in their connection can be burn all the boards at once.
- Screw the line to terminal block without any looseness, certainly.
- Do not turn on the switch of power source, before all of line work is done.
- Provide a dedicated branching circuit and never share a branching circuit with other equipment. If shared, disconnection at the circuit breaker may occur, which can cause secondary damage.
- Use three-core cable as wiring between indoor and outdoor unit. As for detail, refer to 'INSTALLATION MANUAL" of outdoor Unit.
- Set earth of D-type.
- Do not add cord in the middle of line (of indoor power source, remote control and signal) route on outside of unit. If connecting point is flooded, it could cause problem as for electric or communication
- (In the case that it is necessary to set connecting point on the signal line way, perform thorough waterproof measurement.)
- Run the lines (power source, remote control and "between indoor and outdoor unit") upper ceiling through iron pipe or other tube protection to avoid the damage by mouse and so on
- Keep "remote control line" and "power source line" away from each other on constructing of unit outside.
- Do not connect the power source line [220V/240V/380V/415V] to signal side terminal block. Otherwise, it could cause failure.
- Connection of the line ("Between indoor and outdoor unit", Earth and Remote control) ① Remove lid of control box before connect the above lines, and connect the lines to terminal block according to number pointe label of terminal block. In addition, goe noigh attention to confirm the number to lines, because there is electrical polarity except earth line. Furthermore, connect earth line to earth position of terminal block of power source. (In addition, select the yea of broaker box in viewer actual the save according to the save broaker box.)
- (a) Install and include the one up over source line. In adduct, sect, us type of breaker in invested for an installed version. (a) If the function of selected earth feakage breaker is only for earth-feat protection, hand switch (switch isself and type "B" fuse) or circuit breaker is required in series with the earth feakage breaker. (c) Install isolator or disconnect switch on the power source running in accordance with the local codes and regulations. The isolator should be set in the box with key to prevent touching by another person when servicing.

### Cable connection for single unit installation

- ①As for connecting method of power source, select from following connecting patterns. In principle, do To connect more a port of the provided of port of the provided of
- (2)For cable size and circuit breaker selection, refer to the outdoor unit installation manual.



## Cable connection for a V multi configuration installation

- (1)Connect the same pairs number of terminal block "(1), (2), and (3)" and "(X) and (Y)" between master and slave indoor units.
- ②Do the same address setting of all inside units belong to same refrigerant system by rotary switch SW2 on indoor unit's PCB (Printed circuit board).
- ③Set slave indoor unit as "slave 1" through "slave 3" by address switch SW5-1, 5-2 on PCB. When the AIR CON No. button on the remote control unit is pressed after turning on the power, an indoor unit's address number will be displayed. Do not fail to confirm that the connected indoor unit's numbers are displayed on the remote control unit by pressing the 🔺 or 💌 button.





©Operation and setting from remote control

A: Refer to the instruction manual for RC-EX series. B: Refer to the installation manual for RC-EX series. C: Loading a utility software vie Internet  $\bigcirc$ : Nearly same function setting and operations are possible.  $\triangle$ : Similar function setting and operations are possible.

	Setting & display item	Description	RC-EX series	RC-ES
. Re	emote Control network		001100	<u> </u>
1	Control plural indoor units by a single remote control	A remote control can control plural indoor units up to 16 (in one group of remote control network). An address is set to each indoor unit.	0	0
2	Master/slave setting of remote controls	A maximum of two remote controls (include option wireless) can be connected to one indoor unit. Set one to "Master" and the other to "Slave".	в	0
TC	P screen, Switch manipulation		Α	<u> </u>
1	Menu	"Control", "Settings", or "Details" can be selected. (319.)	Α	
2	Operation mode	"Cooling", "Heating", "Fan", "Dry" or "Auto" can be set.	Α	0
3	Set temp.	"Set temperature" can be set by 0.5°C interval.	Α	0
4	Air flow direction	"Air flow direction". [Individual flap control setting] can be set.	Α	0
5	Fan speed	"Fan speed" can be set.	Α	0
6	Timer setting	"Timer operation" can be set.	Α	0
7	ON/OFF	"On/Off operation of the system" can be done.	Α	0
8	High power SW	"High power operation" or "Normal operation" can be selected.	A	
9	Energy-saving SW	"Energy-saving operation" or "Normal operation" can be selected.	A	
E	nergy-saving settin		A	
1	Auto OFF timer [Administrator password]	For preventing the timer from keeping ON, set hours to stop operation automatically with this timer. •The selectable range of setting time is from 30 to 240 minutes (10minutes interval) •When setting is "Valid", this timer will activate whenever the ON timer is set.	А	
2	Peak-cut timer [Administrator password]	Power consumption can be reduced by restricting the maximum capacity. Set the [Start time], the [End time] and the capacity limit % (Peak-cut %). •4-operation patterns per day can be set at maximum. •The setting time can be changed by 5-minutes interval. •The setectable range of capacity limit % (Peak-cut %) is from 0% to 40-80% (20% interval). •Holiday setting is available.	А	
3	Automatic temp. set back [Administrator password]	After the elapse of the set time period, the current set temp. will be set back to the [Set back temp.] -The setting can be done in cooling and heating mode respectively. -The selectable range of the set time is from 20 min. to 120 min. (10 min. interval). -Set the [Set back temp.] by 1°C interval.	А	
In	dividual flap control setting		А	
	Individual flap control setting	The moving range (the positions of upper limit and lower limit) of the flap for individual air outlet port can be set.	Α	10
Ve	entilation			
1	External ventilation (In combination with ventilator)	On/Off operation of the external ventilator can be done. •The settings of [Interlock] with AC (air-conditioner), [Single operation] of ventilator or operation [invalid] of ventilation can be done through [Ventilation settings] in the [Remote control] menu.	А	0
Filt	ter sign reset		Α	0
1	Filter sign reset	The filter sign can be reset.	В	
2	Setting next cleaning date	The next cleaning date can be set.	Α	
ni	tial settings			
1	Clock setting	The current date and time can be set or revised.	Α	
2	Date and time display	[Display] or [Hide] the date and/or time can be set, and the [12H] or [24H] display can be set.	Α	
3	Summer time	When select [Valid], the +1hour adjustment of current time can be set. When select [Invalid], the [Summer time] adjustment can be reset.	A	
4	Contrast	The contrast of LCD can be adjusted higher or lower.	A	
5	Backlight	Switching on/off a light can be set and the period of the lighting time can be set within the range of 5sec-90sec (5sec interval).	A	
6	Control sound	It can set with or without [Control sound (beep sound)] at touching panel.	A	<u> </u>
1 1	Set On timer by hour	The period of time to start operation after stopping can be set. -The period of set time can be set within the range of 1hour-12hours (1hr interval).	A	
		•The operation mode, set temp and fan speed at starting operation can be set.		
2	Set Off timer by hour	The period of time to stop operation after starting can be set. •The period of set time can be set within the range of 1hour-12hours (1hr interval).	А	
კ	Set ON TIMER BY CLOCK	I he clock time to start operation can be set. • The set clock time can be set by 5 minutes interval. • [Once (one time only]] or [Everyday] operation can be switched. • The operation mode set term, and fan sneed at starting operation can be set.	А	
4	Set Off timer by clock	The clock time to stop operation can be set. The set clock time can be set by 5 minutes interval. - (Once (one time only)) or [Everyday] operation can be switched.	A	
5	Confirmation of timer settings	Status of timer settings can be seen.	A	<u> </u>
Ne	ekly timer			
1	Weekly timer	On timer and Off timer on weekly basis can be set.		$\bigtriangleup$
	[Administrator password]	-8-operation patterns per day can be set at a maximum. -The setting clock time can be set by 5 minutes interval. -Holiday setting is available.	A	
		Ine operation mode, set temp and tan speed at starting operation can be set.		
).H	lome leave mode			
1	Home leave mode [Administrator password]	When leaving home for a long period like a vacation leave, the unit can be operated to maintain the room temperature not to be hotter in summer or not to be colder in winter. •The judgment to switch the operation mode (Cooling⇔Heating) is done by the both factors of the set temp. and outdoor air temp •The set temp. and fan speed can be set.	А	

	Setting & display item	Description	RC-EX	RC-
		boonpath	series	
. A	dministrator settings	[Administrator password]	A	
1	Enable/Disable setting	Enable/Disable setting of operation can be set. [On/Off] [Change set temp.] [Change operation mode] [Change air flow direction]		
		[Individual flap control setting][Fan speed] [High power operation] [Energy-saving operation] [Timer settings] [Weekly timer setting]	A	
		Request for administrator password can be set. [Individual flap control setting][Weekly timer][Energy-saving setting][Home leave mode][Administrator settings]		
2	Silent mode timer	The period of time to operate the outdoor unit by prioritizing the quietness can be set.		
		•The [Start time] and the [End time] for operating outdoor unit in silent mode can be set. •The period of the operation time can be set once a day by 5 minutes interval.	A	4
3	Setting temp, range	The upper/lower limit of indoor temp, setting range can be set.		
1	ootang tomp: rango	The limitation of index terms eating range can be set for each operation mode in cooling and heating	A	4
	Tomp incroment extring	The immutation of motor terms by charge car be set of each operation mode in cooling and reading. The terms increment the observed by $0.5^{\circ}$ or $1.0^{\circ}$	^	-
*	PC display acting	The temp. Inclement setting can be changed by 0.5 C or 1.0 C.	A	-
ו	no display setully	negister (noom name) (name of noo		
		Display (induor temps) or not.	A	$\square$
		Display [inspection code] of not.		4
		Display (Hearing stand-by) (Dehost operation) (Auto cooling/hearing) or not		(
6	Change administrator password	The administrator password can be changed. (Default setting is "0000")	A	
		The administrator password can be reset.	В	
In	staller settings	[Service password]	В	
	Installation date	The Installation date) can be registered.		
1		When resistering the Installation date), the Next service date is displayed automatically. (For changing the Next service date), please refer the item of [Service & Maintenance].)	В	
	Sarvica contact	The (Source control) can be conjusted and can be displayed as the PC		-
-	Service contact	The poentice contact can be registered and can be displayed on the no.	В	
		• The [contact company] can be registered within 10 characters. • The [contact phone] can be registered within 13 digits.		
3	lest run	Un/Un operation of the test run can be done.		
	Cooling test run	The [Cooling test run] can be done at 5°C of set temp. for 30 minutes.		
	Drain pump test run	Only the drain pump can be operated.		
	Compressor Hz fixed operation	The [Test run] operation can be done with fixed compressor Hz set by installer.		(
, I	Static pressure adjustment	In case of combination with only the ducted indoor unit which has a function of static pressure adjustment the static pressure is adjustable	В	
	Change auto-address	The set address of each indoor unit decided by auto-address setting method can be changed to any other address. For multiple KY units only	R	
2	Address softing of Marine U	The bit address of cash index of and toold by address setting metrice dati be changed to day outer address. (For multiple tx Units Only)		-
D	Auuress setting of Main IU	main induor unit address Call De Set.		
		<ul> <li>Only the warm modor unit can change operation mode and the bub indoor units dominated by the Main indoor unit shall follow.</li> <li>The Mein indoor will be a description of a period operation.</li> </ul>	в	4
_		• The Inian Houser unit can domain TU Indoor Units at a maximum.		1
.R	C function settings	[Service password]	В	
1	Main/Sub RC setting	The setting of [Main/Sub RC] can be changed.	В	(
2	RC sensor	The offset value of IBC sensor] sensing temp, can be set respectively in heating and cooling.	В	(
	9 BC sensor adjustment	The offset value of [RC sensor] sensing temp, can be set respectively in heating and cooling		
2	3 no sensor adjustment	The ordinar range of offset value is $+3^{\circ}$ . In this is containing and accounty.	В	2
	10 Operation mode	The sound range of onset value is 1.5 °C bount in coming and including.		
•	12 Operation mode	The [valu/invalid] seturg of [Auto][cooling][reading] and [ory] can be done respectively.	В	
b	13 Fan speed	The setting of [Fan speed] can be done from following patterns. 1-speed, 2-speeds (Hi-Me), 2-speeds (Hi-Lo), 3-speeds, 4-speeds.	В	(
	14 External input	The applicable range ([Individual] or [All units]) of CnT input to the multiple indoor units connected in one control system.	в	6
6		•[Individual] : Only the unit received CnT input signal.•[All units] : All the units connected to one control system received CnT input signal.		
7	15 Ventilation setting	The setting of [Invalid] operation of ventilator, [Interlock] with AC or [Independent] of ventilator can be selected.		
		-When setting [Interlock], the operation of external ventilator is interlocked with the operation of AC -When setting [Independent], only the operation of external ventilator is available.	в	
8	16 Flap control	The [Flap control] method can be switched to[Stop at fixed position] or [Stop at any position]-[Stop at fixed position] : Stop the flap at a certain position	_	
		among the designated 4 positions. (Stop at any position) : Stop the flap at any arbitrary position just after the stopping command from RC was sent.	В	
٩	17 Auto rostart	The operation control method after recovery of power blockwith papened during operation can be set	- D	
2	10 Auto temp, cotting	The operation control method are recovery of power blackdow happened during operation can be set.		
0	18 Auto temp. setting	(valid) or [invalid] or [Auto tempt. Setting] can be selected.	В	-
1	19 Auto fan speed setting	[Valid] or [Invalid] of [Auto fan speed setting] can be selected.	В	
l/	'U settings	[Service password]	В	
1	High ceiling	The fan tap of indoor fan can be changed. •[Standard] [High ceiling 1] [High ceiling 2] can be selected.	В	(
,	Filter sign	The setting of filter sign display timer can be done from following patterns	В	(
	External input 1	The optimal sign apply among the backgood. The extention of optimal are 100/0ff [Dermission/Deshibition] [Cooling/heating] Emergeona the		
3		The content of control by external input can be changed. The selectable contents of control are [on/on] [Permission/Promotion] [Cooling/nearing] [Emergency stop]		
4	External input i signal	The type of external input signal (Level input) (Pulse input) can be changed.	в	
5	External input 2	The selectable contents of control are [On/Off] [Permission/Prohibition] [Cooling/heating] [Emergency stop]	В	
6	External input 2 signal	The type of external input signal ([Level input]/[Pulse input]) can be changed.	В	
7	Heating thermo-off temp. adjust.	The judgment temp, of heating thermo-off can be adjusted within the range from 0 to $+3^{\circ}C(1^{\circ}C)$ interval)	В	2
<u>م</u>	Return air sensor adjust	The sensing term, of return air terms, sensor built in the indoor unit can be adjusted within the range of $+2^{\circ}$ C	В	/
	Fan control in heating thorms OFF	The fan control mathed at baction therma-off can be channed. The selectable fan control mathed are I and I Set fan consel Interestitant (Stan)		1
ĭ	Anti front tomo	The independence at meaning another on care or energies. The secondary fail to since interview are provided at independence in the secondary and the seconda		
1	Anu-frost temp.	The Judgment terms of and most control for the indoor unit in cooling can be changed to [Temp, High] or [Temp, Low].	В	1
1	Anti-frost control	when the anti-frost control of indoor unit in cooling is activated, the fan speed can be changed.	В	
2	Drain pump operation	In any operation mode in addition to cooling and dry mode, the setting of drain pump operation can be done.	В	
3	Residual fan operation in cooling	The time period of residual fan operation after stopping or thermo-off in cooling mode can be set.	В	(
	Residual fan operation in heating	The time period of residual fan operation after stopping or thermo-off in heating mode can be set	В	6
	Intermittent for operation in hocking	The fan operation rule following the residual googram operation and the result of the data and the residual for the residual		
	mommuten idii uperation in neating	nno ran oporación nale nonoving de resolucia nan operación dels stupping de definito-de in neculing fillode Call de Set.		+
	ran circulator operation	In case unat une rain is operated as une circulator, une rain control rule can be set.	В	-
1	Control pressure adjust. (For OA processing unit only)	When only the UA processing units are operated, control pressure value can be changed.	В	
3	Auto operation mode	The [Auto rule selection] for switching the operation mode automatically can be selected from 3 patterns.	В	Ľ
9	Thermo. rule setting	When selecting [Outdoor air temp. control], the judgment temp. can be offset by outdoor temp	В	
	Auto fan speed control	Under the JAuto fan speed controll mode, the switching range of fan speed can be selected from following 2 natients JAuto 11 Jauto 21 - Jauto 11 - Hi Check o Jauto 21 - Deicklich Machine	B	
c	arvice & Maintonance			+
اں	III addrose No	portex pastrony		-
	to address NO.	wax. To motor units can be connected to one reinote control, and an address NO. Of the connected indoor units can be displayed.	В	(
		• The industrum confirming to the address No. Can be identified by selecting the address No. and tapping [Check] to operate the indoor fan.		È
2	Next service date	The [Next service date] can be registered. The [Next service date] and [Service contact] is displayed on the [Periodical check] message screen.	AB	
3	Operation data	Total 39 items of [Operation data] for indoor unit and outdoor unit can be displayed.	В	(
4	Error history	[Date and time of error occurred] [I/U address] [Error code] for Max. 16 latest cases of error history can be displayed.	В	4
1	Display anomaly data	The operation data just before the latest error stop can be displayed	R	
	Diopiay anomaly uald	The operation data just bottle in a factor for any can be displayed.		-
	neset periodical check	The uniter for the periodical check can be reset.	В	1
5	Saving I/U settings	The I/U settings memorized in the indoor PCB connected to the remote control can be saved in the memory of the remote control.	В	
6	Special settings	[Erase I/U address] [CPU reset] [Initializing] [Touch panel calibration]	В	4
	spection			
In			A	F_
.In	Confirmation of Increation	I DO SUDICE NO OT SUDMISIOUS INDOOL/OITDOOL INIT SUD OLLO COOD STO GEORGIAD		
.In	Confirmation of Inspection	The address No, of anomaious indoor/outdoor unit and error code are displayed.		-
.In .P	Confirmation of Inspection C connection	The address NO, of anomalous indoor/outdoor unit and erfor code are displayed.	С	
	Confirmation of Inspection C connection USB connection	The address No, or anomalous indoor/outdoor unit and error code are displayed.         Weekly timer setting and etc., can be set from PC.	С	