

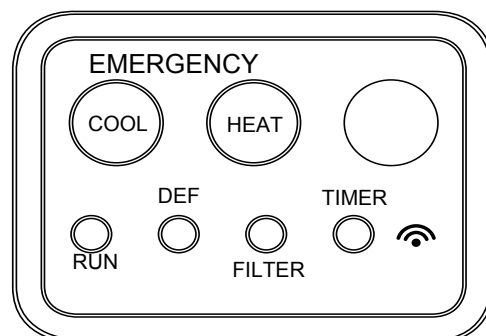
HITACHI

This Operation Manual is dedicated
for the receiver kit.

Operation Manual of Receiver Kit

Please confirm the model of your air conditioner
and the receiver kit.

Type	
4-Way Cassette Type	HR4A10NEWQ



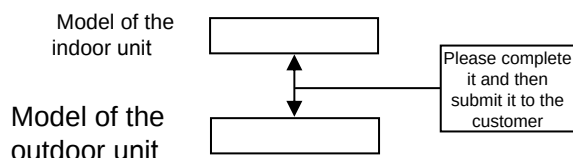
HR4A10NEWQ

4-Way Cassette Type

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Model of the indoor unit and the
outdoor unit you are using:



To use this receiver kit rightly, please read carefully this
instructions for use and please refer to the Operational
Manual supplied with the air conditioner before use. Please
keep it properly after reading. In the event of any doubt,
please contact your dealer or the service center of the
company.

Foreword

This product is a general control product and its functions need support of the air conditioning system. Connection with some air conditioning systems may result in failure in some functions described in this IFU. Please consult your dealer for further details.

- When selecting the installation place, first consideration shall be given to the convenience of users and the place must be approved by the user. Please do not install this product at the following places:
 - Places where there is flying sprays of oils (including mechanical oil) and more vapor, and places where more sulfide gases, such as hot springs, exist (which possibly results in fire and deforming, corroding and damaging the product);
 - Coastal regions with high salt content, and alkaline or acidic environment (possibly result in the product being corroded);
 - Places where children are accessible; ○ Humid places; ○ Places facing towards the air outlet of the air conditioner;
 - Places where there are much flying dust or dust; ○ Places under construction.
- When using devices that release electromagnetic wave, for instance, some medical devices, to prevent the product and connected devices from malfunctioning, do not install the project in such a way that makes the electromagnetic-wave emission face look directly at the product.
 - To prevent the product and its connected devices from impact of electromagnetic wave, please put any device generating electromagnetic wave, such as radios, more than 3 meters away from the product.
 - The product shall be mounted inside an iron box and the connecting cable shall be housed in iron conduct for shielding.
 - In the event that some devices generate any interference at the side of the power source, please install a wave filter etc. to avert such interference.
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Safety Summary

- Please read carefully the 「Safety Summary」 before use.
- Issues marked to be paid attention here include two categories: 「⚠ Warning」 and 「⚠ Caution」. Issues marked with 「⚠ Warning」 mean those that may result in serious consequence such as severe injury or death due to wrong installation. Issues marked with 「⚠ Caution」 refer to those that may also cause serious consequence depending on situations. What is described behind both are important to safety, therefore please observe it.
- After installation, conduct trial running; after confirming that there is no anomaly, please describe the operational and maintenance methods to the user and ask the user to keep well the Instructions for Use.

Meaning of marks



Warning: indicate any malfunction may cause death or serious injury.



: Indicate reference to a page.



Caution: indicate any malfunction may cause injury or damage to items.



: Help you operate easier



: Indicate a mandatory issue, instructing behaviors of non-specific general users.



: Indicate issues to be paid attention except those with Warning and Caution.



: Indicate a forbidden issue.

Safety Summary (cont'd)

Installation

 Warning	- Please install the product in strict accordance with this Instructions for Use. Otherwise, accidents such as electric shock, fire and falling may happen. - Please install the product at the place that can full bear its weight. Otherwise, any hurt accident may happen due to falling of the product. 
	Please do not install the product at any place where any combustible gas may be generated or come in. Otherwise, accidents such as electric shock and fire may happen. 
	Begin installing the product only after the power supply is disconnected. Otherwise, electric shock may happen. 
 Caution	If the product with the signal receiver is interfered with by external light source such as fluorescent lamp (frequency-varying fluorescent lamp), it may not receive signals normally.

Electric installation

 Warning	The electric installer shall have qualifications for such construction. Please appoint a qualified dealer to do the job. Otherwise, electric shock may happen. 
	During electric installation, please comply with applicable national standards and the Instructions for Use and make sure a dedicated circuit is used. Otherwise, accidents such as electric shock and fire may happen. 
	Please use the required connecting conductor. Otherwise, fire and electric shock may happen. 
	Cable shall be connected securely and firmly. Any loose connection may lead to heated conductors which may cause fire and electric shock. 
	When the control board of the product or its related device must be taken out due to electric cabling and spot inspection etc., please completely disconnect the power supply first. Otherwise, electric shock may happen. 
 Caution	Avoid the communication cable in parallel with the power cable. Otherwise, it may generate interference causing malfunctions.

Repair and relocation

 Warning	● If the unit must be repaired or relocated, please consult your dealer or the service center designated by the Company. ● Improper repair and installation may cause electric shock and fire etc.
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Other warnings and cautions

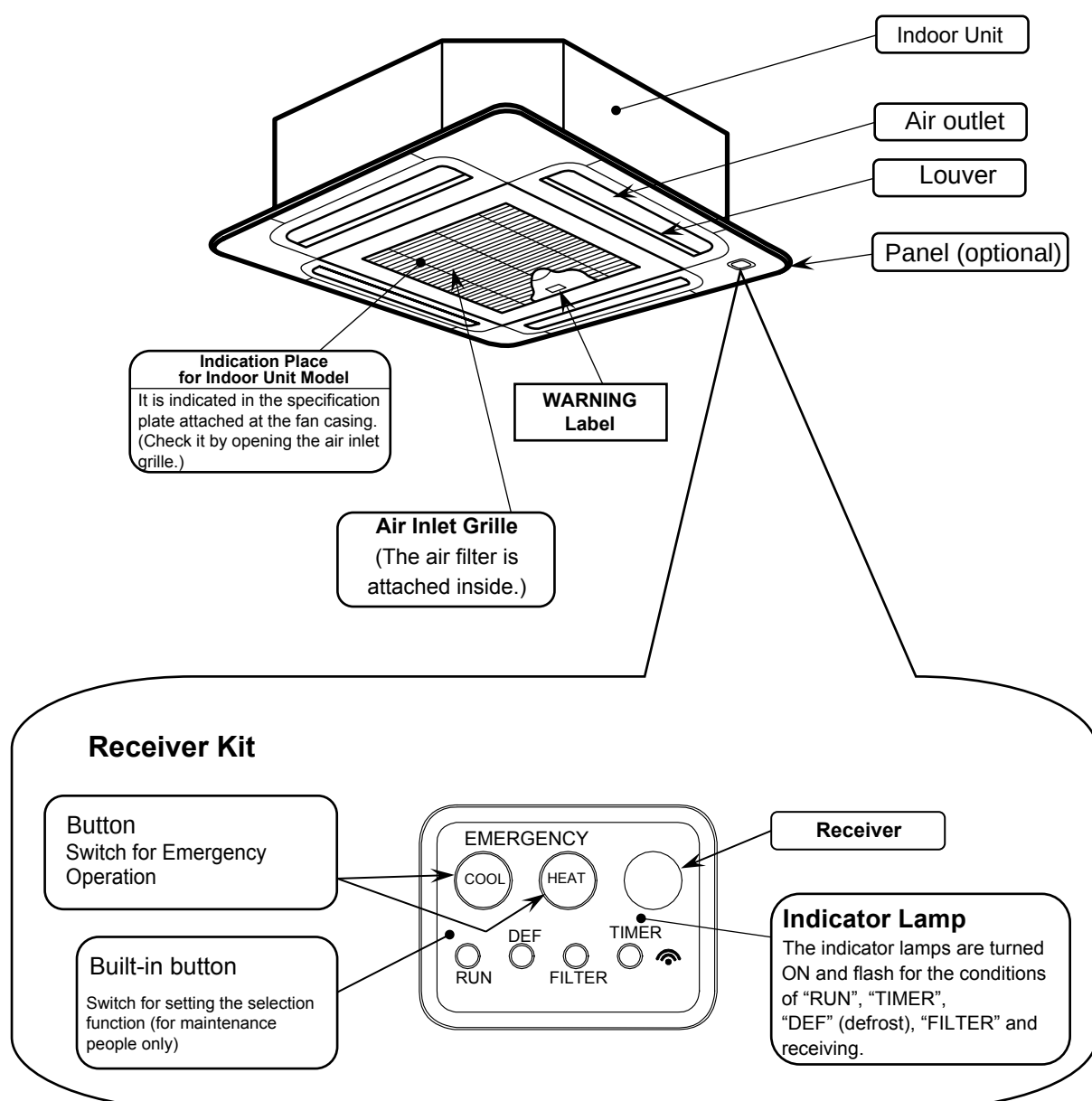
 Warning	● Do not let water come in during overhaul and maintenance. Any electric part contacting water may cause electric shock.
	● Please do not modify electric conductors. Otherwise, it may cause severe accidents.
	● Please use a secure and firm scaffold during overhaul and maintenance. Otherwise, any tip-over may cause injury.
	● During overhaul and maintenance, do not spray water or detergent in the unit, otherwise, it may cause electric short-circuit resulting in fire and electric shock.
	● During overhaul and maintenance, the electric part and connectors must be maintained and do not let water come in. Otherwise, short-circuit may cause fire and electric shock.
 Caution	● When opening/closing the intake grating, or installing the removed strainer, please support it with your hand, otherwise, the grating or strainer may fall causing injury.

Name of Parts and Indication of Safety Consideration

4-Way Cassette Type

- The safety consideration is indicated on the indoor unit in order to be used safely.
Read and understand this manual before using the receiver kit.

Safety cautions	Warning on rotary objects
Indicated content	 Warning To avoid any injury, do not stretch your hand or bar into the fan. Warning To avoid any injury, do not stretch your hand or bar into the fan. Warning Do not insert a finger or stick into the fan unit. It could cause a person's injury.



The place to install the WARNING Label.

- Affix it inside of the above picture.

Handling Wireless Remote Control Switch

 Caution	- Do not put the wireless remote control switch in following high temperature places. It may not be operated correctly. - Places where direct lights such as sunlight affect. - Places where near a stove
	During use, please be careful! The remote control may fail due to falling to the ground or being damped etc.

Sending Commands from Wireless Remote Control Switch

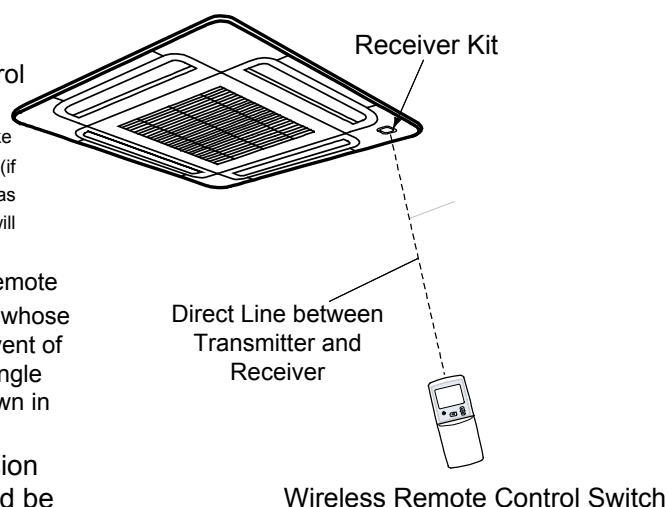
- Method to send signal of the wireless remote control
- Make the signal-sending site of the wireless remote control

point at the photosensitive hole of the receiver kit.

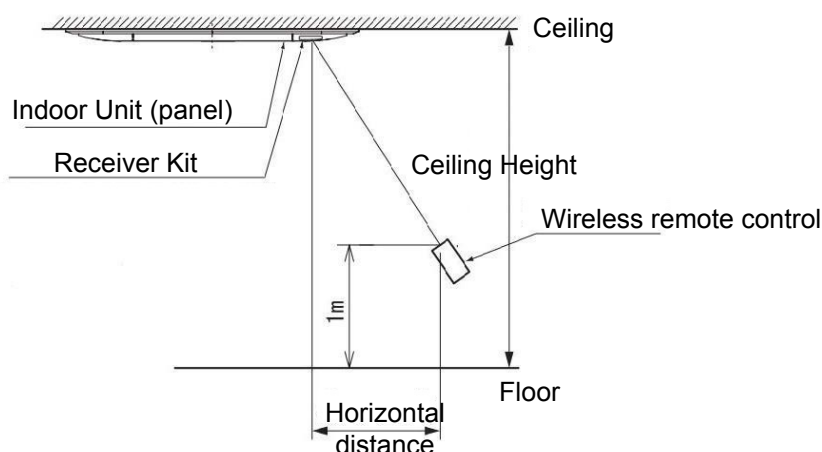
Operation of signal sending shall be as near the indoor device as possible. Make the wireless remote control perpendicular to the plane where the signal is located (if it is not perpendicular to the plane of the receiver kit or such electric appliance as fluorescent lamp is in the front side of it, the signal transmission distance will become shorter).

When using the wireless remote control to send signals, the remote control shall be located within the scope of the 120-degree cone whose base point is the plane where the receiver kit is located; in the event of low ceiling (the height of the indoor device), the photosensitive angle becomes larger, and the possible photosensitive distance is shown in the table below, which may vary with the building's structure.

With consumption of the battery, the signal transmission distance will get shorter, at this point, The battery should be replaced in time.



Photosensitive Distance Limit for Receiver Kit



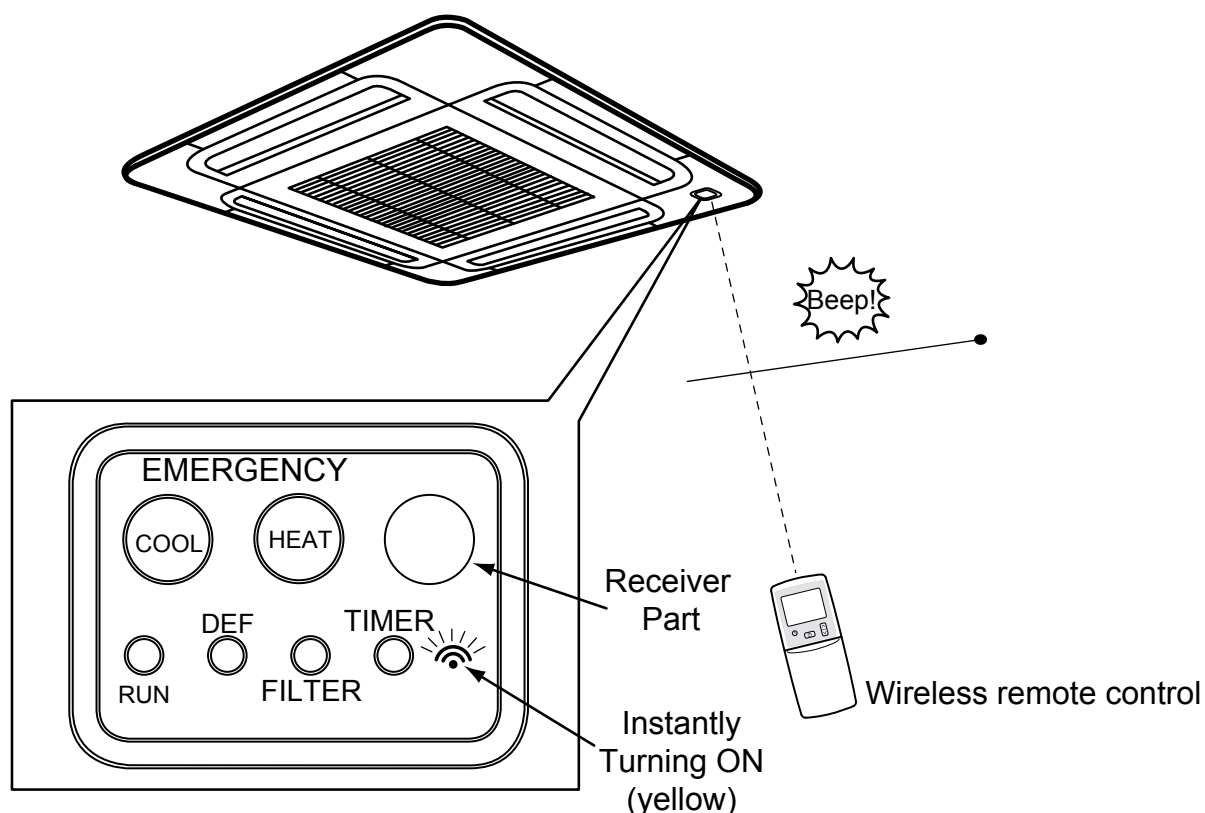
Photosensitive Distance Limit for Receiver Kit
(in the case that height of wireless remote control from floor is 1 m)

Height of Indoor Unit (m)	2.7	3.0	3.5	4.0	4.5	5.0
Horizontal Distance (m)	2.9	3.5	4.0	4.5	4.5	4.5

Handling Wireless Remote Control Switch (cont'd)

The receiver kit's confirmation of receiving signals

- When the receiver kit receives signals from the wireless remote control, the indicating light 📶 on its screen is flickering. If the indicating light 📶 is not flickering, the receiver kit receives no signal, please send it again.



Attentions

- When confirming signals sent, while indicating light 📶 on the screen of the receiver kit is flickering, simultaneously it is sounding beep (however, there is no beep when silence is set in the selection setting). - When the light is not lit or the beep lasts just one second, the receiver kit receives no signal, please send it again.
- Sometimes the beep is not heard because of impact of ambient noises.

Operation Mode for Emergency



Warning

- Please switch off the power first and then use the Emergency, otherwise, it may cause electric shock.



Running and function

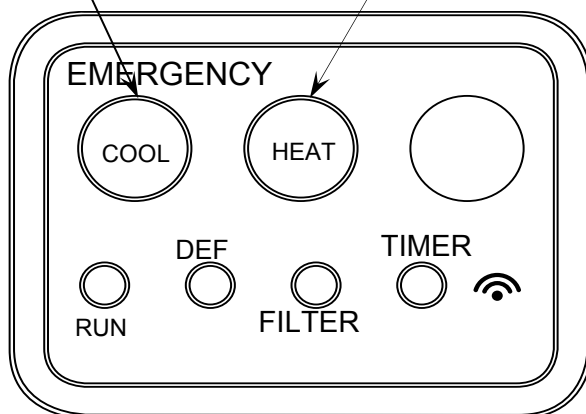
- When the remote control does not run normally due to depleted battery, the user can use the emergent running.
- The running includes two types: "COOL" and "HEAT".

Shortcut

- Running at "COOL" mode ...set temperature: 21 °C Air volume: high
- Running at "HEAT" mode ...set temperature: 30 °C Air volume: high

Button "COOL"

Button "HEAT"



Button "COOL":

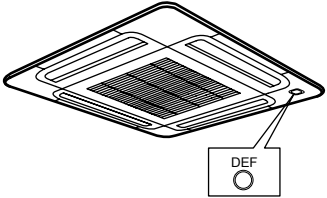
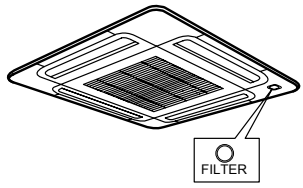
Press "COOL" so that the cooling operation is started;
Press "COOL" again so that the cooling operation is stopped.

Button "HEAT":

Press "HEAT" so that the heating operation is started.
Press "HEAT" again so that the heating operation is stopped.

Displays Related to the Receiver Kit

General display

Temperature-regulation function	When running at the COOL mode, owing to the control of the temperature-regulation function, it becomes running at low air volume and the displayed cannot be changed (only for running at the heating mode).	
Defrost	When defrosting stop:  The indicating light (green) is lit on. The fan of the indoor device stops. The air deflector is horizontal and the air direction is nearly horizontal. LCD keeps its previous state.	
	When defrosting stop:  The indicating light (red) goes out. It continues running when the indicating light  (green) is lit on and stops after defrosting.	
Filter	Filter is clogged:  The indicating light (orange) is lit on. It indicates much dust accumulated and the strainer needs to be cleaned (see the indoor device's instructions for use for the cleaning method). After cleaning, make the wireless remote control point at the receiver kit and press the button (strainer reset), and the indicating light goes out.	
Centralized control	 When the indicating light (yellow) is lit on long, this indicates the running is in the state of remote centralized control. At the point, the wireless remote control can be operated for resetting and stopping running only.	

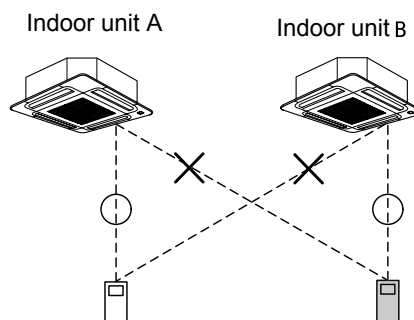
Displays Related to the Receiver Kit (cont'd)

Anomaly	The  (running) indicating light (red), the  (defrosting) indicating light (green) and the  (Filter) indicating light are flickering. After confirming the flickering state of these indicating lights, please contact your dealer.
Power off	- All displays disappear. - When the device stops due to power failure, it will not run even after it is powered on. The user shall conduct a running operation. ⌘ 2 seconds' transient power-off will make the device automatically enter the state of re-running.
Interference	All displays disappear. There is a possibility that the running stops, which results from actions of the microprocessor in response to impact of an interference in order to protect devices.

“Adjacent-machine-distinguishing control” mode

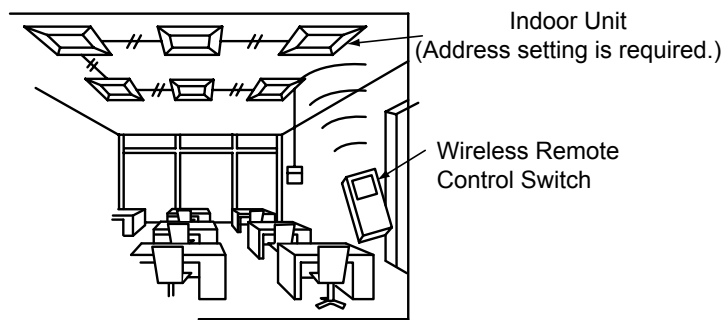
When the user wants to control adjacently-deployed indoor units separately, the user shall adopt the method as shown in the right figure. In case of any specific problem, please contact your dealer or the after-sale services of the Company

“Adjacent-machine-distinguishing control” mode



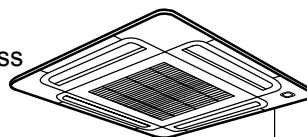
Simultaneous Operation of Multiple Indoor Units

The multiple indoor units (Max. 16 units) can be started and stopped simultaneously by one wireless remote control switch. For the details, contact your distributor or contractor.



Operation with Wired Remote Control Switch

An air conditioner can be controlled by using the wireless and wired remote controls at the same time. In case of any specific problem, please contact your dealer or the after-sale services of the Company



Wireless remote control

Wired remote control

Automatic Operation

The air conditioner automatically runs in the following ways

3-minute protection		To protect the compressor of the outdoor unit, it is unable to run within at least 3minutes after the running stops. It will rerun automatically after some 3 minutes.
Refrigeration running	Prevent freezing	When the heat exchanger of the indoor unit is at a too low temperature, the compressor will stop automatically and supply air to prevent the heat exchanger from freezing.
Heating running	Hot start	When the heating running begins, the air volume is slowly changing automatically in the way 【low-air】 → 【middle air】 → 【set air】 volume in order not to exhaust cold air. After starting, the air deflector horizontally fixed at the air outlet will automatically restore.
	Air supplying stops for defrosting	During defrosting, the air feeder stops automatically in order not to exhaust cold air.
	Discharge waste heat	After the machine stops heating running, to reduce the internal temperature of the indoor unit, the unit will continue running at the lowest air for at most 2 minutes.
	Prevent overloading	In the case of heating running, the overload point varies with the indoor temperature. If the outdoor temperature is higher (about more than 21 ℃) the running stops.

Alarm display of signal receiver

【Alarm display of signal receiver】

Note 1): when the protective device acts during normal running, the signal receiver's running indicating light will be flickering in the cycle of 0.5 second on/0.5 second off.

Note 2): the alarm code can be confirmed by the number of times that the indicating lights for defrosting and strainer flicker.

Indicating light for defrosting: the number of times of flickering is the ten-digit number of the alarm code.

Indicating light for strainer: the number of times of flickering is the unit-digit number of the alarm code.

Example): in the case of the alarm code 35

The indicating light for defrosting flickers 3 times in the cycle of 0.5 second on/0.5 second off, and then the indicating light for strainer flickers 5 times in the cycle of 0.5 second on/0.5 second off. The abovementioned action will repeat until the alarm is terminated.

Anomaly	The  (running) indicating light (red), the  (defrosting) indicating light (green) and the  (Filter) indicating light are flickering. After confirming the flickering state of these indicating lights, please contact your dealer.
Power off	● All displays disappear. ● When the device stops due to power failure, it will not run even after it is powered on.
Interference	● All displays disappear. There is a possibility that the running stops, which results from actions of the microprocessor in response to impact of an interference in order to protect devices.

