USER’S MANUAL

MITSUBISHI HEAVY INDUSTRIES PACKAGED AIR CONDITIONER

Ceiling cassette -4 way- (FDT)
Ceiling cassette -4 way Compact (600x600mm) - (FDTC)
Ceiling cassette -2 way- (FDTW)
Ceiling cassette -1 way Compact- (FDUT)
Duct connected -High static pressure- (FDU)
Duct connected -High static pressure Compact- (FDUC)
Duct connected -High static pressure- (FDUH)
Duct connected -High static pressure outdoor air processing unit (FDU -F)

<WIRED REMOTE CONTROL>
<eco touch REMOTE CONTROL>
<WIRELESS REMOTE CONTROL>

Please refer to the manual provided with eco touch REMOTE CONTROL

Por favor, consulte a documentação que veio com o eco touch controle remoto

Экотouch дистанционным управлением поставляемой с eco touch дистанционным управлением


Este equipo de aire acondicionado cumple con la siguiente directiva.

Dieses Klimagerät erfüllt die folgende Richtlinien.  
Maschinen 2006/42/CE  
Reaktoren 2014/68/UE  
Geräte 2006/95/CE  
Ölwerkstätten 2014/68/UE  
CE-Markierung ist für Bereiche mit einer Netzfrequenz von 50 Hz gültig.  

Questo condizionatore è conforme alle seguenti direttive.  
Macchine 2006/42/CE  
Reattori 2014/68/UE  
Apparecchi 2006/95/CE  
Apparecchi a pressione 2014/68/UE  
Il marchio CE è applicabile alle fasce di alimentazione 50 Hz.

Este aire acondicionado cumple con la siguiente directiva.  
Maquinaria 2006/42/CE  
Bajas tensiones 2014/35/UE  
Máquinas 2006/42/CE  
Equilibrado y mandos 2014/68/UE  
La marca CE sólo corresponde al área de suministro eléctrico de 50 Hz.

Il condizionatore è conforme alla seguente direttiva.  
Macchine 2006/42/CE  
Raffreddamento 2014/68/UE  
Apparecchi 2006/95/CE  
Condizionamento 2009/125/CE  
Lo scritto CE indica che la macchina si adatta alla normativa CE.

Este aire acondicionado está en conformidad con las siguientes directivas.  
Maquinaria 2006/42/CE  
Bajas tensiones 2014/35/UE  
Máquinas 2006/42/CE  
Enfriamiento y ventilación 2014/68/UE  
Con la marca CE se aplican a zonas de suministro de energía a 50 Hz.

La marca CE indica che la macchina si adatta alla normativa CE.

Please refer to the manual provided with eco touch REMOTE CONTROL.

Por favor, consulte la documentación que viene con el eco touch mando a distancia.

Ανατρέξτε στην τεκμηρίωση που συνόδευε το eco touch τηλεχειριστήριο.

Bitte beachten Sie die Dokumentation, die mit der eco touch Fernbedienung kam.

Raadpleeg de documentatie die bij de eco touch afstandsbediening is geleverd.

Пожалуйста обратитесь к документации поставляемой с eco touch дистанционным управлением.

Deze airconditioner is in overeenstemming met de volgende richtlijnen.  
Machines 2006/42/EC  
Druckgeräten 2014/68/EU  
Máquinas 2006/42/CE  
Máquinas 2006/42/CE  
CE-markering is van toepassing op het gebied met een netstroom van 50 Hz.

Dieses Klimagerät erfüllt die folgenden Richtlinien.  
Máquinas 2006/42/CE  
Druckgeräten 2014/68/EU  
Máquinas 2006/42/CE  
Máquinas 2006/42/CE  
Die CE-Marke gilt für Bereiche mit einer Netzstromversorgung von 50 Hz.

Questo condizionatore è conforme alle successive direttive.  
Máquinas 2006/42/CE  
Druckgeräten 2014/68/EU  
Máquinas 2006/42/CE  
Máquinas 2006/42/CE  
Il marchio CE è applicabile alle fasce di alimentazione 50 Hz.

Este aire acondicionado cumple con las siguientes directivas.  
Maquinaria 2006/42/CE  
Druckgeräten 2014/68/EU  
Máquinas 2006/42/CE  
Máquinas 2006/42/CE  
La marca CE indica que la unidad se adapta al área de suministro eléctrico de 50 Hz.
Thank you very much for your purchase of this packaged air conditioning system produced by Mitsubishi Heavy Industries. Please read through this manual before using the product and use the product appropriately according to the instructions in the manual. After you have read the manual, store it with the warranty certificate in a safe place. It will help you when you have questions or problems.

This Product contains fl uorinated greenhouse gases. Do not vent R410A into the atmosphere: R410A is a fl uorinated greenhouse gas with a Global Warming Potential (GWP) = 2088. Refer to a label on outdoor unit for the weight of fl uorinated greenhouse gas and CO₂ equivalent.

The emission sound pressure level from each Indoor and Outdoor unit is under 70 dB(A).

The following sections are classified into "DANGER" and "CAUTION" and describe potentially hazardous situations that may lead to serious outcomes such as death and serious injuries if the product is mishandled. Note, however, that depending on the situation, the items listed in the " DANGER " sections do also have the potential of causing serious outcomes. Both warnings and cautions provide you important information related to safety; please make sure to observe them.

After you have read the manual, always store it where other users can refer to at any time. If a new owner takes over the system, make sure to pass this manual.

**SAFETY PRECAUTIONS**

Please read these “SAFETY PRECAUTIONS” before starting to use this product and use the product appropriately according to the instructions.

The precautions provided here are classified into " DANGER " and " CAUTION ". The " DANGER " sections describe potentially hazardous situations that may lead to serious outcomes such as death and serious injuries if the product is mishandled. Note, however, that depending on the situation, the items listed in the " DANGER " sections do also have the potential of causing serious outcomes. Both warnings and cautions provide you important information related to safety; please make sure to observe them.

The symbols used throughout the main text of this manual have the following meaning.

- ○ marks mean prohibited items. The specified prohibited item is described in the circle or in the vicinage.
- ● marks mean compulsory action or instruction. The specified prohibited item is described in the circle. The left mark means “Earth is needed.”

**INSTALLATION PRECAUTIONS**

Make sure to have the installation done by your dealer or a specialist.

If you install by yourself and the unit is not properly installed, water leakage, electric shock, fire and injuries caused by the drop of the unit may occur.
The preventive measures that the density of leaked refrigerant does not exceed the limit is necessary in case of installing the unit in a small room. The leakage of refrigerant may cause oxygen deficiency accident. Consult your dealer for the measures.

**CAUTION**

Make sure to perform grounding work.
Do not connect grounding wire to any gas pipe, water pipe, conductor rods or telephones. Incomplete grounding may cause electric shock through leakage of electricity.

Make sure to mount a leakage breaker.
Otherwise electric shock may occur. Please consult your dealer or a specialist for the mounting.

Do not mount where flammable gas leakage can happen.
If leaked gas stagnates in the unit, the gas may cause fire.

Make sure to layout the drain pipe so that the water is completely drained.
Otherwise, water may leak and wet household goods.

**OPERATION PRECAUTIONS**

**DANGER**

This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved.

Children shall not play with the appliance.

Cleaning and user maintenance shall not be made by children without supervision.

Do not expose yourself directly to cooled air flow for a long time or cool too much.
It may be cause of deconditioning or health disorder.

Do not insert fingers or sticks into the air inlet or outlet grilles.
It may cause injuries because of the fan rotating at high speed.

If the unit has been submerged under water due to a natural disaster such as flood or typhoon, consult your dealer before using it again.
If you use it as it stands, it may lead to failure, electric shock or fire.

If any abnormal symptom (scorched flavor etc.) is found, cut off the power and stop the operation.
Then consult your dealer.
If you use it as it stands, it may lead to failure, electric shock or fire.

One of the causes of poor cooling or poor heating may be refrigerant leakage. Please consult your dealer.
If the repair requires additional refrigerant, determine the service with the service staff. The refrigerant of air conditioner is not toxic. Normally the refrigerant does not leak. But if it leaks and contacts fire such as fan heater, space heater or cooking heater, it may produce toxic chemicals.

Do not insert fingers or sticks even if air blower does not operate.
It may suddenly operate and cause injuries.

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**CAUTION**

Do not use for particular purpose such as the storage of food, animals and plants, precision apparatus and arts etc. Storage goods may degrade.

Do not operate the button with wet hand.
It may cause electric shock.

When a burning appliance is used together with the unit, ventilate frequently. If ventilation is not sufficient, it may cause oxygen deficiency accident.

Do not place a burning appliance where the airflow from the unit is directly blown.
It may cause the imperfect combustion of the equipment.

Make sure that the unit installation foundation is not damaged due to long-term use.
If it is left to stand, the unit may fall down causing injury.

Do not wash the unit with water, nor place a vase with water on the unit.
It may cause electric shock or ignition.
Do not install the unit where the airflow is directly blown to animals and plants. They may suffer from adverse effect.

Before cleaning, make sure to stop operation and cut off the power. The fan inside rotates at high speeds.

Make sure to use proper size of fuse. Using steel wire or copper wire may lead to failure or fire.

Do not store a flammable spray etc. near the unit, nor blow directly to the unit. It may lead to fire.

Before maintenance, make sure to stop operation and cut off the power. The fan inside rotates at high speeds.

When the unit isn’t used for a long-term, cut off the power. The accumulation of dirt may lead to heat generation or fire. But, before resuming the operation, turn on the unit for six hours beforehand to save harmless.

Do not place any other electric appliances or household goods below or around the air conditioner. Dripping from the unit may lead to failure or contamination.

Do not touch the aluminum fin. Otherwise it may lead to injuries.

Do not clean the inside of the indoor unit by yourself. Make sure to consult your dealer or user inquiry counter specified by our company. If you select incorrect detergent or improper method, resin parts may be damaged and lead to water leakage. If the detergent is dropped on the electric component or motor, it may lead to failure, smoking or ignition.

Do not place objects on the outdoor unit, nor mount on it. It may lead to injuries resulting from dropping or falling.

During the operation or maintenance, do not use an unstable footrest. It may lead to injuries resulting from falling.

Be careful so that the dust does not get into your eyes when removing the air filter.

Do not operate the air conditioner while the air filter is removed. Piled up dust may lead to malfunction.

During thunderstorm, stop the operation and turn off the switch. A lightning strike may lead to failure.

After several seasons of operating, inspections and maintenances are required except routine care and cleaning. Accumulated dirt or dust inside the indoor unit may cause odor, water leakage through the clogging of water discharging pipe for dehumidification. Specialized information and skills are required for inspections and maintenances. Therefore contact your dealer.

Do not place any other electric appliances or household goods below or around the air conditioner.

Do not operate or stop the unit by using the power supply switch. It may lead to fire or water leakage. If auto restart is set effectively, the fan may rotate suddenly causing injuries.

Do not touch blowout port when the swing louver moves. Otherwise, it may lead to injuries.

Do not strain the remote control cord. A part of core wire may be cut off causing electric leakage.

Do not use water heater etc. near the indoor unit or remote control. If a Vapor-generating appliance is used near them, it may lead to water drop causing electric leakage or short circuit.

Do not use the unit where powder or fiber is floating. Fine powder or fiber passing through the air filter may stagnate inside the unit and lead to electric leak or short circuit.

Do not place objects under the unit which must avoid being exposed to water. Over 80 percent humidity or the clogging of drain pipe may damage them through dew dropping.
**PRECAUTIONS FOR RELOCATION OR REPAIRING**

**CAUTION**

Never perform any modification. Contact your dealer for repairing.

Improper repairing may lead to water leakage, electric shock or fire. Normally the refrigerator does not leak. But if it leaks and contacts fire such as fan heater, space heater or cooking heater, it may produce toxic chemicals. When repairing refrigerant leakage, determine the service with the service staff that the repair has been finished without fault.

If it is required to relocation and reinstall the unit, consult your dealer or a specialist.

Improper installation of air conditioning unit may cause water leakage, electric shock and/or fire.

**PRECAUTIONS FOR WASTE DISPOSAL**

Your Air Conditioning product may be marked with this symbol. It means that waste electrical and electronic equipment (WEEE as in directive 2012/19/EU) should not be mixed with general household waste. Air conditioners should be treated at an authorized treatment facility for re-use, recycling and recovery and not be disposed of in the municipal waste stream. Please contact the installer or local authority for more information.

Before repairing or checking indoor unit, be sure to turn off “Indoor unit power supply breaker.” It can result in electric shock or injury due to rotation of indoor unit fan if you perform check or repair with the “Indoor unit power supply breaker” turned on.

**How to use: Wired Remote Control**

- **Wired remote control**
  - The figure below shows the remote control with the cover opened. Note that the items in the liquid crystal display (LCD) area are shown for explanation purpose. Put the cover downwards to open.

- **Names and functions of remote control buttons (Wired Remote Control)**
  - **Ventilation display**
    - Displayed during ventilation operation
    - See page 12
  - **Weekly timer display**
    - Displays the settings of the weekly timer.
  - **Operation setting display area**
    - Displays setting temperature, airflow volume, operation mode and operation message.
  - **Operation/check indicator light**
    - During operation: Lit in green
    - In case of error: Flashing in red
  - **Operation/stop button**
    - This button is used to operate and stop the air conditioning system.
    - Press the button once to operate the system and press it twice to stop the system.
  - **MODE button**
    - This button is used to change the operation mode.
  - **FAN SPEED button**
    - This button is used to set the airflow volume.
  - **VENT button**
    - This button is used to operate external ventilator.
    - See page 12
  - **LOUVER button**
    - This button is used to operate/stop the swing louver.
    - See page 11
  - **SET button**
    - This button is used to set the timer.
  - **CHECK button**
    - This button is used to set the timer mode and the time.
    - See page 5 to 12
  - **TEST button**
    - This button is used during test operation.
  - **RESET button**
    - If you press this button while making settings, you can go back to the previous operation. See page 5 to 12
  - **E.S.P button**
    - This button is only used by service engineers for installation purposes.
  - **AIR CON No button**
    - Display the indoor unit number connected to this unit control.
  - **SET button**
    - This button is used to fix the setting.
  - **CHECK button**
    - This button is used to set the silent mode.
    - See page 5 to 12
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HOW TO OPERATE (Dehumidifying operation is prohibited for FDU-F) < WIRED REMOTE CONTROL >

Setting temperature Fan speed Operation mode

1. Press [ ON/OFF ] button. The unit starts operating.
2. Press the [ MODE ] button. The range of operation mode is displayed according to the model of indoor unit. Every time the button is pressed, the display changes in the following order: dry, cool, fan, heat, auto.
   (The automatic operation can be selected in case of the heat recovery system KXR only. The automatic operation cannot be selected in case of heat pump system KX
   )
3. Press TEMP button. Press [ ] button to set the room temperature.
   If in case of FDU-F
   The setting temperature of the remote controller indicates the outdoor temperature while operating thermostat ON/OFF.
4. Press FAN SPEED button. The range of fan speed model is displayed according to the model of indoor unit.
   At 4-speed: ............................... High speed
   At 3-speed: ............................. Medium speed
   At 2-speed: .............................. Low speed
   At 1-speed: ............................ Min speed
   The operation is stopped.
5. Press LOUVER button. The unit operates with the maximum fan speed.

GUIDELINE for room temperature setting
COLD.................. 20 to 24°C
DRY........................ 21 to 24°C
HEAT.................. 22 to 24°C
FAN.getStatusCode

• The setting of operation change, temperature and air flow volume adjustment can be changed even when the air conditioner is stopped.
• When a button is pressed while the operation is stopped, the corresponding display is turned on and you can change the setting. The display lights for three seconds after changing the setting, and then turn off automatically.

HOW TO PERFORM THE TIMER OPERATION < WIRED REMOTE CONTROL >

THE SELECTION OF TIMER MODE

1. Press [ TIM ] button. The mode changes to timer mode.
   "Current day of the week" and "Current time" are displayed.
   [EXAMPLE] Sunday 1 o'clock in the afternoon
   Display area:
   [ ] [ ] [ ] [ ] [ ] [ ]
   The mode changes to timer mode.
2. Press A or B button. By pressing A or B button, it is possible to choose the item to set.
   [DISPLAY] [ ] [ ] [ ] [ ] [ ]
   (To set current time)
   [SLEEP TIMER] [ ] [ ] [ ] [ ]
   (Every operation stops after a certain period of time has elapsed.)
   [OFF TIMER] [ ] [ ] [ ] [ ]
   (The unit stops operating at the setting time.)
   [ON/TIMER] [ ] [ ] [ ] [ ]
   (The unit starts operating at the setting time.)
   [WEEKLY TIMER] [ ] [ ] [ ] [ ]
   (Timer set for each day of the week)
   [FAN CONTROL] [ ] [ ] [ ] [ ]
   (Cancel the timer setting)
   If you press the [RESET] button, timer mode ends and return to original status.
3. Press [ SET ] button. The selected timer mode is set.
   For setting of each timer mode, see the following pages.
   The possible combination of the timer function is mentioned in the following table.
   Combination of modes that can be set together (×: possible ×: impossible)

Functions of each timer operation
• Sleep timer
   When the specified period of time elapses, operation stops.
   10 settings are available, from "an hour later OFF" to "10 hours later OFF"
   The unit will stop when the setting time is reached.
• Off timer
   The unit will stop at the setting time. It will operate one time per setting.
• On timer
   The unit starts to operate at the setting time. The temperature can be set together. It will operate one time per setting.
• Weekly timer
   You can set up to four ON/OFF timers per day.
   Once Weekly timer is set, it repeats every week.

NOTICE
• There may be a case that "ON/OFF" is displayed when any button mentioned in the above is pressed but it is not a malfunction. In that case, the operation of the button is prohibited.
• When you start to operate the unit for the first time after turning the power supply on, the default settings are listed below. You can change them as you like.

Central control.............. Turned off
Operation changeover........ With auto mode
• When heating/cooling mode is selected
• When the unit is set to indoor unit
• When using the remote controller switch

• Do not turn off the air conditioning system without referring to the instruction manual.
• Do not use any sharp objects to press the remote controller switches.
HOW TO PERFORM THE TIMER OPERATION

<WIRED REMOTE CONTROL>

Timer operation is performed based on the time of the clock which is set by the following steps. Make sure to set the time to the current time correctly.

1. Press TIMER button. The mode changes to timer mode. “Current day of the week” and “Current time” are displayed.

   Display area : 
   [ ] 
   [ ] 
   [ ]

2. Press SET button. The display area shows: 

   [ ] 
   [ ] 
   [ ]

3. Press ▲ or ▼ button. Place the “▲” mark above the day of the week to the current day.

   Press ▲ or ▼ mark to move to the right and the left respectively.

   If you press the RESET button, the remote control will return to the previous screen and display: 

   [ ] 
   [ ] 
   [ ]

4. Press SET button. The day of the week is fixed, and the flashing of ▲ mark stops and lights.

   The “current time” value flashes, and “ ” mark above the day of the week is displayed.

5. Press ▲ or ▼ button. Set to the current time.

   If you press the RESET button, the display is returned to the one in step 1.

6. Press SET button. The flashing for time display stops and lights, and “[Day]” is displayed to show that the current time is set. Two seconds later, the display in step 1 returns, and “ ” mark is displayed.

7. Press [ON/OFF] button. The timer mode is finished.

   **NOTICE**

   • If you press [ON/OFF] button while timer mode is under setting, timer mode is canceled and the display will return to the original one. Note that the setting which has not been completed is canceled.

   • If you do not press any button for several minutes after entering the timer mode, the timer mode ends and the display returns to the original one.

SLEEP TIMER MODE

After a certain period of time has elapsed, operation stops.

• Sleep timer

   The unit stops after the set time elapses.

   1. Press TIMER button.

   2. Press ▼ button once.

   3. Press SET button.

   4. Press ▲ or ▼ button.

   5. Press SET button.

   Sleep timer has been set.

   The air conditioner will turn on if a sleep timer is set while it is turned off.

   After “ ” is displayed in the display area, the display in step 3 returns.

   *When “Ten hours later OFF” is set*

   [ ]

   “ ” (lights for two seconds)

   “ ” (lights for two seconds)

   The display changes as below. Set as you like.

   • Set “Minute”

   • Set “Hour”

   Set the time at which you want to stop the operation.

   [EXAMPLE]   “ ”

   [EXAMPLE]   “ ”

   After “ ” is set, the display in step 1 returns.

   Every operation stops after a certain period of time has elapsed.

   6. Press [ON/OFF] button. The timer mode is finished.

OFF TIMER MODE

The unit stops operating at the setting time.

This setting is effective for only once.

1. Press TIMER button.

2. Press ▼ button twice.

3. Press SET button.

   [EXAMPLE]   “ ”

   “ ” (lights)

4. Press ▲ or ▼ button.

   Set the time at which you want to stop the operation.

   • Set “Hour”

   If you press a ▲ or ▼ button for a while, “Hour” display is changed by one hour, and stops when you stop pressing.

   • Set “Minute”

   If you press a ▲ or ▼ button, the number in the display becomes larger or smaller by ten minutes.

5. Press SET button.

   OFF timer has been set.

   After “ ” is displayed in the display area, the display in step 1 returns.

   *If set to 6:00 PM*

   [ ]

   “ ” (lights)

   “ ” (lights)

   The display changes as below. Set as you like.

   • Press the SET button.

   The display chooses the number in the display.

   [ ]

   [ ]

   [ ]

   “ ” (lights)

   “ ” (lights)

   “ ” (lights)

The unit stops operating at 6:00 PM.

6. Press [ON/OFF] button. The timer mode is finished.
HOW TO PERFORM THE TIMER OPERATION  < WIRED REMOTE CONTROL >

ON TIMER MODE
The unit starts to operate at the set time. It is possible to set temperature at which you want to start the operation. Only one setting is applicable to each operation.

1. Press TIMER button.
2. Press button for three times. (for setting the timer)
3. Press SET button. (EXAMPLE) [9:00] (lights)
4. Press or button. Set the preferred time to start the operation.
   - Set "Hour"
     If you press or button for a while, "Hour" display is changed by one hour, and stops when you stop pressing.
   - Set "Minute"
     If you press or button, the number in the display becomes larger or smaller by ten minutes.
5. Press SET button. ON timer has been set.
The left image is displayed in the display area.
   - If you press the button, the remote control will return to the previous screen.
6. Press or button. Press button then TEMP SET OFF is displayed
   Press or button until the selection is set
   Select either of the below (NOTICE)
   - Go to step 2 if "Minute" is set.
   - Go to step 3 if temperature is not set.
7. Press SET button. The selected mode is fixed.
   The left image is displayed in the display area.
   - If you press button, "24-hour timer setting is displayed flashing"
   - 0°C (lights)
   - The current set temperature is displayed flashing)
   - 6°C (lights)
8. Press or button to set temperature.
   If you press or button, the number in the display becomes larger or smaller by 1°C
   Set temperature at which you want to start the operation.
   If you press the button, the remote control will return to the previous screen.
9. Press SET button. ON timer is set, and after the button is displayed, the display in step 2 returns.
   - If set to 10:00 AM > [9:00] ON TIMER (lights)
   - [9:00] ON TIMER (lights)
   - 0°C (lights)
   - The selected mode is fixed.
   - The time display is turned off. If you do not press any button for several minutes after entering the timer mode, the timer mode ends and the display returns to the original one.
10. Press button. The timer mode is finished.

NOTICE
• If you press the button while timer mode is under setting, timer mode is canceled and the display will return to the original one.
• If you do not press any button for several minutes after entering the timer mode, the timer mode ends and the display returns to the original one.
• ON timer and either Sleep timer or OFF timer are set together, the temperature of ON timer is not displayed.
• ON timer and either Sleep timer or OFF timer are set together, OFF timer (or Sleep timer) proceeds.
8

• If you select a day of the week for which setting have already been made, all the timer numbers that have been set are displayed. And the details of the timer setting for the number which has "Ż" mark is displayed. You can modify the selected setting by overwriting it.

• If you set ON timer and OFF timer operating at the same time, OFF timer will precede.

• If the same two times are set for ON timer on the same day, the lower number precedes.

Next setting and exiting Weekly timer mode
After "Ż" is displayed, "Ż" is displayed.

1 Press ʻ or ʻ button. By pressing ʻ or ʻ button, it is possible to choose the item to set.

2 Press SET button. If "Ż" is selected, " Ż" is displayed. Repeat step 1 and the subsequent steps of Weekly timer setting on page 7.

NOTICE

HOW TO PERFORM THE TIMER OPERATION < WIRED REMOTE CONTROL >

5 Press ʻ SET button.

6 Press ʻ button. Press ʻ button and "ON TIMER" is displayed. Select either of the above two.

7 Press ʻ SET button. Press the ʻ RESET button to return to the display in step 3.

8 Press ʻ or ʻ button. Press ʻ button and "Ž E TT I N G" is displayed.

9 Press ʻ SET button.

10 Press ʻ or ʻ button. Select either "Ž E T T I N G" .

11 Press ʻ SET button.

12 Press the temperature setting buttons ʻ or ʻ.

13 Press ʻ SET button.

• If you press ʻ button while timer mode is under setting, timer mode is canceled and the display will return to the original one.

• If you do not press any button for several minutes after entering the timer mode, the timer mode ends and the display returns to the original one.

• Display after Weekly timer modes setting
  - The day of the week set is underlined.
  - The ʻ mark is displayed above the current day of the week.
  - The display of all the timer operation numbers set for the current day is turned on.
  - The timer operations are executed in order, and the number and time display are turned off when all the timer operations for the current day are completed.

• If you select a day of the week for which setting have already been made, all the timer numbers that have been set are displayed. And the details of the timer setting for the number which has " Ż" mark is displayed. You can modify the selected setting by overwriting it.

• If you set ON timer and OFF timer operating at the same time, OFF timer will precede.

• If the same two times are set for ON timer on the same day, the lower number precedes.

• If you press ʻ button while timer mode is under setting, timer mode is canceled and the display will return to the original one.

• If you do not press any button for several minutes after entering the timer mode, the timer mode ends and the display returns to the original one.

5 Press ʻ SET button.
### HOW TO PERFORM THE TIMER OPERATION

#### WIRED REMOTE CONTROL

**Weekly timer Holiday Setting**

It is possible to temporarily disable each day's timer setting by using the Holiday Setting. When the Holiday Setting is cancelled, the timer setting is enabled again.

1. In the Weekly timer mode, select and set **HOLIDAY SET**.
   - **SA** to **THU** (lights)
   - **FRI** to **SAT** (displayed)

2. Press **A** or **B** button. Move the "A" mark displayed above the days of week to the day which you want to set as Holiday.

3. Press **C** SET button. The "A" mark above the day stops flashing and lights, and the day set as a Holiday setting is enclosed with (). Then, the following is displayed.
   - **SA** to **THU** (lights)
   - **FRI** to **SAT** (lights for two seconds)
   - **HOLIDAY SET ON** (lights)

4. Press **ON/OFF** button. Timer mode ends.

### Canceling Holiday Setting

1. In the Weekly timer mode, select and set **HOLIDAY SET**.

2. Press **A** or **B** button. Move the "A" mark displayed above the day of week to the day which you want to cancel Holiday setting. Select the day of the week that has been set as Holiday.

3. Press **C** SET button. The display is turned off and the following is displayed.
   - **SA** to **THU** (lights)
   - **FRI** to **SAT** (lights)
   - **HOLIDAY OFF** (lights for two seconds)

4. Press **ON/OFF** button. Timer mode ends.

**NOTICE**

- If you press **ON/OFF** button while timer mode is under setting, timer mode is canceled and the display will return to the original one.
- If you do not press any button for several minutes after entering the timer mode, the timer mode ends and the display returns to the original one.

#### Weekly timer Checking

1. In the Weekly timer mode, select and set **CHECK/RESET A**.

2. Press **A** or **B** button. Detailed timer operation setting information of the smallest timer operation number on the day of the week as shown on the left. (But if not set, **NOREM** is displayed.)

3. Press **A** button to display the settings in the reverse order.

4. Press **C** SET button. The display shows the detailed timer operation setting information of the smallest timer operation number on the day of the week as shown on the left.

5. If you press the **A** button, the remote control will return to the previous screen, and display **CHECK/RESET A**.

#### Weekly timer mode Setting Canceling

It is possible to cancel Weekly timer mode settings of each day of the week, as well as individual timer operation number. See “Timer Operation Cancellation Mode” on page 10 to cancel settings of all days of week.

1. In the Weekly timer mode, select and set **CHECK/RESET A**.

2. Press **A** or **B** button. Detailed timer operation settings are displayed in accordance with the timer operation you have selected.

3. Press **A** button to display the settings in the reverse order.

4. Press **C** SET button. The display shows the detailed timer operation setting information of the smallest timer operation number on the day of the week as shown on the left.

5. If you press the **A** button, the remote control will return to the previous screen, and display **CHECK/RESET A**.

#### NOTICE

- It is possible to temporarily disable each day's timer setting by using the Holiday Setting. When the Holiday Setting is cancelled, the timer setting is enabled again.
- If you set a day of the week for which no timer operation is set, the “ ” mark above the day stops flashing and lights, and the day set as a Holiday setting is enclosed with ()
- If you press the **A** button, the remote control will return to that of step 1. Repeat step 2 to 3 to continue canceling further holiday settings.
- After the holiday setting has been completed, the display of the remote control returns to that of step 1. Repeat step 2 to 3 to continue canceling further holiday settings.
- The “ ” mark displayed above the days of week to the day which you want to set as Holiday.
- If you press the **A** button, the remote control will return to that of step 1. Repeat step 2 to 3 to continue canceling further holiday settings.
- After the holiday setting has been completed, the display of the remote control returns to that of step 1. Repeat step 2 to 3 to continue canceling further holiday settings.
- The “ ” mark displayed above the day of week to the day which you want to cancel Holiday setting.
- If you do not press any button for several minutes after entering the timer mode, the timer mode ends and the display returns to the original one.
**HOW TO PERFORM THE TIMER OPERATION**

**TIMER CANCELLATION MODE**

1. Press **⑦ TIMER** button.
   - Timer mode begins.
   - The current "The day of the week" and "the current time" are displayed.

2. Press **③** button for five times.
   - "SLEEP TIME=" (first press)
   - "OFF TIME=" (second press)
   - "ON TIME=" (third press)
   - "NEW TIME=" (fourth press)
   - "TIMER CLEAR=" (canceling all days of the week)

3. Press **⑧** SET button.
   - Timer Cancellation Mode begins.

4. Press **⑤** or **⑦** button.
   - By pressing ⑦ or ⑤ button, it is possible to choose the item to cancel.

5. Press **②** SET button.
   - The selected setting of selected timer mode is displayed as shown below.
   - But if not set, "OFF TIME=" is displayed.

6. Press **③** SET button.
   - The display of the detailed timer setting is turned off, and after the message "CANCELL:" is displayed for two seconds, "CANCELL:" is displayed again (step 4 above).
   - Repeat steps 4 to 6 to continue canceling timer mode settings.

**HOW TO OPERATE IN SILENT MODE**

**SILENT MODE**

When the silent mode is set, the unit operates more silently reducing noise from the outdoor unit.

Once the system is set to operate with the silent mode, the setting is applied everyday until it is canceled.

**Silent Mode Setting**

1. In the timer mode, set the current day of the week and current time.
   - See page 6, step 1 to 7

2. Press **②** SET button for three seconds or more.
   - The remote control goes into silent mode setting and the following is displayed.

3. Press **⑤** or **⑦** button.
   - If ⑦ button is pressed, "ON TIME:" is displayed.
   - If ⑤ button is pressed, "OFF TIME:" is displayed.
   - Select "ON TIME:" (lights) (By pressing ⑦ or ⑤ buttons)

4. If you press the **④** SET button, the remote control return to the original screen.

5. Press **⑤** or **⑦** button.
   - Set the "ON TIME:
     - "OFF TIME:" is displayed.
     - If you hold ⑦ or ⑤, the number in "hour" display changes, and if released, the number stops changing.
     - "OFF TIME:" is displayed.

6. Press **④** SET button.
   - The ON TIME is set and the following is displayed.

7. Press **⑤** or **⑦** button to set the duration.
   - **OFF TIME:** is displayed.
   - When you press ⑦ button, and the duration is increased by two hours as below, "OFF TIME:" is increased by two hours.
   - When you press ⑤ button, and the duration is decreased by two hours.

8. Press **④** SET button.
   - The setting is fixed and displayed.
   - "ON TIME:" is displayed, and the silent mode setting ends.
   - The setting display turns off, and returns to original display.
HOW TO ADJUST THE LOUVER (IN CASE OF FDT, FDTC, FDE, FDK, FDFW) < WIRED REMOTE CONTROL>

ADJUSTING WITH LOUVER BUTTON (Indoor unit with auto swing function)

Press [LOUVER] button once, and the current status of louver is displayed.

When you operate the swing louver

1. Press [LOUVER] button, and change the display to [3M8].

The function of the swing louver during the heating preparation, heating/defrost

"Horizontal" or "Heating/Defrost" is displayed, the position of the swing louver is automatically switched to horizontal.

When the operation is switched to normal after "The heating preparation" or "Heating/Defrost" ends, the position of swing louver returns to the last setting.

- Do not move the swing louver forcibly by hands for fear that it may be damaged.
- Do not blow downwards during cooling operation for a long time for fear that dew condensation may be formed at the side panel. (In case of FDE)

Recommended louver fixed position

<table>
<thead>
<tr>
<th>COOL/DRY</th>
<th>SELECT 1</th>
<th>SELECT 2</th>
<th>SELECT 3</th>
<th>SELECT 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>HEAT</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

When the position of the swing louver is fixed

1. Press [LOUVER] button once while the louver is swinging, and 4 stop positions are displayed every one second in order.

2. Press [LOUVER] button once when the display of the louver comes to the position you desire. The display is switched to stop, and the position of louver is fixed.

Recommended louver fixed position

1. Press [LOUVER] button once when the display of the louver comes to the position you desire. The display is switched to stop, and the position of louver is fixed.

3. Press [SET] button. (selection of indoor unit)

- For FDT and FDTC types, in case the number of the indoor units connected to the remote control are more than one, Go to step 4.

4. Press [SET] button. (selection of upper limit position)

- The following is displayed if the number of the indoor units connected to the remote control are one. Do not apply any setting to other louver.

- The following is displayed if the number of the indoor units connected to the remote control are more than one.

5. Press [SET] button. (determination of indoor unit)

- Select the upper limit of louver movable range.

- The louver No. to be set is confirmed and the display shows the upper limit of the movable range.

6. Press [SET] button. (determination of louver No.)

- The louver No. to be set is confirmed and the display shows the upper limit of the movable range.

- The following is displayed if the number of indoor units connected to the remote control are one. Do not apply any setting to other louver. Other louver No. settings have no effect.

- If No.1 louver is selected, Note: For FDE, select "position --". To change the setting to the factory setting, use "position --".

- Other settings selected have no effect.

HOW TO SET THE AIRFLOW DIRECTION

It is possible to change the movable range of the louver on the air outlet from the wired remote control. Once the top and bottom positions are set, the louver will swing within the range between the top and the bottom positions when swing operation is chosen.

With Ceiling cassette -4 way - FDT and FDTC, it is also possible to apply different setting to each louver.

1. Stop the air conditioner and press [SET] button and [LOUVER] button simultaneously for three seconds or more.

2. Press [A] or [V] button.(selection of indoor unit)

- Select the upper limit of louver movable range.

3. Press [SET] button. (determination of indoor unit)

- Selected indoor unit is fixed.

4. Press [A] or [V] button. (selection of louver No.)

- Select the indoor unit of which the louver is set.

5. Press [SET] button. (determination of louver No.)

- The louver No. to be set is confirmed and the display shows the upper limit of the movable range.

6. Press [A] or [V] button. (selection of upper limit position)

- Select the upper limit of louver movable range.

- "position 1" is the most horizontal, and "position 6" is the most downwards.

- Set any louver temporarily. The louver will swing once when the setting is completed and it is possible to confirm the louver No. and the position.

- Other settings selected have no effect.

- For FDE and FDK type, set louver No. 1.

- For FDFW type, set louver No. 2.

- Note: For FDE, select "position --". To change the setting to the factory setting, use "position --".

- Other louver No. settings have no effect.

- If No.1 louver is selected, Note: For FDE, select "position --". To change the setting to the factory setting, use "position --".

- Other settings selected have no effect.

- For FDT and FDTC type, in case the number of the indoor units connected to the remote control are more than one, Go to step 4.

- The following is displayed if the number of the indoor units connected to the remote control are one. Do not apply any setting to other louver. Other louver No. settings have no effect.
HOW TO SET THE AIR FLOW DIRECTION  < WIRED REMOTE CONTROL >

7 Press SET button (Fixing of the upper limit position)
The upper limit position is fixed and the setting position is displayed for two seconds. Then proceed to lower limit position selection display.

[EXAMPLE] No.1 UPPER 2 (lights for two seconds)
No.1 LOWER 5 (returns current setting)

8 Press A or B button (Selection of lower limit position) Select the lower limit position of louver.
• “position 1” is the most horizontal, and “position 6” is the most downwards.
• “position --” is to return to the factory setting. If you need to change the setting to the factory setting, use “position --.”

[EXAMPLE] For Upper position 2, Lower position 5

9 Press SET button (Fixing of the lower limit position) The upper limit position and lower limit position are fixed, the set positions lights for two seconds, and then the setting is completed.
• After the setting is completed, the louver which was set moves from the original position to the lower limit position, and goes back to the original position again. (This operation is not performed if the indoor unit and/or indoor unit fan is in operation.)

[EXAMPLE] No.1 UPPER 2
SET COMPLETE
No.1 LOWER 5

10 Press ON/OFF button. Louver adjusting mode ends and returns to the original display.

NOTICE
• If you press RESET button during settings, the display will return to previous display. If you press ON/OFF button during settings, the mode will end and the original display will return, and the settings that have not been completed will become invalid.
• When plural remote controllers are connected, louver position setting cannot be set by slave remote control.

AIR OUTLET SELECTION (IN CASE OF FDFW)
It is possible to switch between the combination of upper and lower air outlets and upper air outlet. Not operable while the air conditioner is ON.

WHEN THE UPPER AIRFLOW IS SELECTED, UPPER AIR FLOW LED on the unit display will light green only under run. Stop the air conditioner.

1. Stop the air conditioner.

2. Select the airflow from AIR SELECTION button on the unit display.
• In case of selecting to upper airflow, Press the AIR FLOW SELECTION button once, Press the AIR FLOW SELECTION button once again, PRESS button once again.

WHEN UPPER AIR FLOW LED is lit, pressing AIR FLOW SELECTION button, press AIR FLOW SELECTION button once again. UPPER AIR FLOW LED will turn off.

HOW TO OPERATE VENTILATION (WHEN A VENTILATOR IS INSTALLED)  < WIRED REMOTE CONTROL >
When the ventilator is set to "NO VENTI LINK," the ventilator can be turned on and off independently regardless of the operation of the air conditioner. When the ventilator is set to "VENTI LINK," the ventilator operation will be interlocked with the air conditioner operation.

VENTILATION OPERATION LINKED WITH UNIT'S OPERATION
1 Press VENTI button. If a ventilator is connected, ventilation will operate automatically. "V" is displayed.

Press VENTI button again.

VENTILATION OPERATION NOT LINKED WITH UNIT'S OPERATION
1 Press VENTI button. No operation can be performed by pressing the ventilation button. "VENTI" is displayed.

Press VENTI button again.

FOR COMFORTABLE USE
Clean the filter frequently.
The filter should be cleaned when the "Filter cleaning" message is displayed, and at the ends of the cooling and heating season.

Adjust the airflow properly.
Do not block the inlet and outdoor grilles of the indoor and outdoor units.

Adjust the air flow properly.
Block direct sunlight with blinds and curtains during cooling. Close the windows and doors except when ventilation is necessary.

Keep moderate room temperature.
Do not expose yourself directly to the airflow for too long time. For small animals and plants, it is harmful as well.

Adjust the air flow properly.
If the ceiling is so high that the warm airflow does not circulate underneath your feet, it is recommended to use a circulator. Consult your dealer for more details.

Stop the operation and turn the power supply off if there are any possibility of lighting strikes during a thunderstorm. Lightning strikes may lead to the failure of air conditioning system.

SUBJECT TO CHANGE WITHOUT NOTICE.
**INSTRUCTION DISPLAY, FILTER SIGN, AIR CONDITIONER NUMBER, STANDBY AND ROOM TEMPERATURE DISPLAY**

**WHEN THE CHECK INDICATOR LIGHT (RED) FLASHES**

- If the display of remote control has troubles, press ACL switch.
- In order to explain the displays in the liquid crystal display, all of them are shown in the figure below.

**WHEN THE FILTER CLEANING MESSAGE IS DISPLAYED**

- If errors have occurred for all the connected air conditioning units.
- Displays all error codes in the ON timer display area and the error code is displayed in reverse order.
- The remote control can be operated even if the unit is not running.
- The unit is running.
- The remote control can be operated even if the unit is not running.

**HOW TO DISPLAY AIR CON NO.**

- By opening AIR CON No. button, the number of the connected AIR CON unit and error codes of the units which have the record are displayed.
- Other displays all turn off.

**STANDBY DISPLAY**

- When the operation of a unit is stopped, the display of the unit starts flashing.
- Press & button to display in the selected number.
- Press & button to display in the lowest number.
- The air conditioner stops in the event of failure.
- The air conditioner stops in the event of failure.

**ROOM TEMPERATURE DISPLAY**

- If indoor temperature display setting is selected, indoor temperature is displayed on the remote control display. Then, if temperature display is turned off, switch to adjust button is operated.
- Adjust the current time setting displayed on the remote control display.
- The current time is displayed on the remote control display.

**BACK UP DISPLAY**

- If the back up display appears on the screen, please contact the dealer where the unit was purchased.
- The back up display is displayed in order from the lowest.
- The back up display is displayed in order from the lowest.

**REPLACING THE BATTERIES**

- If the battery of the remote control is not used for a long time, it loses power.
- If the battery is not used for a long time, it loses power.

**HOW TO USE THE BACKUP BUTTON**

- In order to explain the displays in the liquid crystal display, all of them are shown in the figure below.

**NAMES AND FUNCTIONS OF REMOTE CONTROL BUTTONS**

- To display the display of standby control has troubles, press ACL switch.
- Used to swing the louver.
- The setting temperature of the remote control indicates the outdoor temperature while operating remote on/off.

**ABOUT REMOTE CONTROL HOLDER**

- Automatic operation of the kit (except XFR) cannot be performed. In automatic operation, the automatic operation is not performed. In automatic operation, the automatic operation is not performed.
HOW TO USE < WIRELESS REMOTE CONTROL >

HOW TO OPERATE

- In order to protect both indoor/outdoor air conditioners, keep the power supply on for six hours before initial operation. Do not turn off the power supply. (Power is distributed to the crankcase heater, even if the compressor is stopped. This keeps the compressor warm, and prevents failures caused by accumulation of liquid refrigerant.)
- The operation of remote control must be performed slowly and steadily.

OPERATION

1. Press ON/OFF button.
   The operation display light (Green) turns on, and the operation starts.
   The setting status is displayed on the liquid crystal area on the remote control.
2. Press MODE button.
   Current operation mode is indicated with the ■ marks besides the operation mode icon.
   The mode will change in the following order by pressing the button.
   ■COOL (COOL) — ■DRY (DRY) — ■HEAT (HEAT) — ■AUTO (AUTO)
   (The automatic operation can be selected in case of heat recovery system KOH only. In case of KO, the automatic operation cannot be selected. In this case, setting changes to automatic operation.) See page 13.
3. Press TEMP button.
   Set the room temperature by pressing ▼ or ▲ button.
   ▼ In case of FDU-F
   The setting temperature of the remote controller indicates the outdoor temperature when operating thermostat ON/OFF.
4. Press FAN SPEED button.
   ■HI — MED — LO: FAN SPEED can be changed in order.
5. Press AIR FLOW button.
   Effective AIR FLOW direction: see page 15
   AUTO mode operation ...... Intermediate
   Cooling, dehumidifying mode .... Horizontal
   Heating mode ............... Downwards
   Press ON/OFF button

CURRENT TIME SETTING PROCEDURE

The timer is set on the current time. Adjust the current time correctly at first of all.

TIME SET UP switch.

Press with the tip of ballpoint etc. The time display blinks and can be set to the current time.

2. Press or button to adjust to AM 8:00.
   Morning: AM Afternoon: PM
   The displayed time changes by 1 minute when pressing the button.
   • or button is pressed during the driving, fast-forward or fast-backward can be done.
   • In case the buttons are not pressed for 60 seconds, the displayed time is set as current time without step.
   The value of the time displayed stops flashing and lights, and the setting is completed.

ON – TIMER OPERATION

Operation is started at the setting time.

EXAMPLE) If you would like to start the operation at AM 8:00
1. Press ON timer button.
2. Press or button to adjust to AM 8:00.
3. Press ON timer button.

OFF – TIMER OPERATION

Operation is stopped at the setting time.

EXAMPLE) If you would like to stop the operation at PM 9:00
1. Press ON/OFF button when the air conditioner stops.
2. Press OFF timer button.
3. Press or button to adjust to PM 9:00.

PROGRAM TIMER OPERATION

By setting both ON timer and OFF timer, the settings turn into PROGRAM timer mode. Operation and stopping can be performed at the same time of each day by setting program timer once.

1. Set ON timer.
   Press ON timer button and set the time with or button.
   Press ON timer button again.
2. Set OFF timer.
   Press OFF timer button and set the time with or button.
   Both ON TIMER and OFF TIMER are displayed. The direction of arrow mark changes depending on the status of operation.
   OFF – TIMER (operating)
   ON – TIMER (stop)

Cancellation
• Press CANCEL button to turn off the TIMER display and timer is canceled.
• After TIMER setting, if ON/OFF button is pressed before the setting time, TIMER display turns off and the TIMER is canceled.

Time change
Press OFF TIMER button to set again.

Guideline of room temperature setting

| COOL | ..….. 20 to 28°C |
| DRY | ..….. 21 to 24°C |
| HEAT | ..….. 22 to 24°C |

Operational mode icons.

IN case of FDU

Effective AIR FLOW direction: see page 15

AUTO mode operation ...... Intermediate
Cooling, dehumidifying mode .... Horizontal
Heating mode ............... Downwards

Displayed time will be changed by 10 minutes by pressing the buttons.

TIME display turns off and the TIMER is canceled.

Stop

Press CANCEL button to turn on the TIMER display and timer is canceled.

At AM 8:00, TIMER/CHECK display lamp turns off and the air conditioner is ready for restart at the setting time.

Cancellation
• Press CANCEL button to turn off the TIMER display and timer is canceled.
• After TIMER setting, if ON/OFF button is pressed before the setting time, TIMER display turns off and the TIMER is canceled.

Time change
Press OFF TIMER button to set again.

Stop

Press CANCEL button to turn on the TIMER display and timer is canceled.

In case the ON timer is set while the air conditioner is in operation, it will be stopped and ready for restart at the setting time.

At PM 9:00, TIMER/CHECK display lamp turns off and the air conditioner will start operating.

Cancellation
• Press CANCEL button to turn off the TIMER display and timer is canceled.
• After TIMER setting, if ON/OFF button is pressed before the setting time, TIMER display turns off and the TIMER is canceled.

Time change
Press ON TIMER button to set again.

Cancellation
• Press CANCEL button to turn off the TIMER display and timer is canceled.
• After TIMER setting, if ON/OFF button is pressed before the setting time, TIMER display turns off and the TIMER is canceled.

Time change
Press OFF TIMER button to set again.
HOW TO ADJUST THE LOUVER

UP AND DOWN ADJUSTING

How to move swing louver
Press AIR FLOW button when the air conditioner is in operation.

To fix the position of the swing louver
Press AIR FLOW button when the louver position indication comes to the position where you would like to fix it.

The swing louver movement during heat preparation
When “heat preparation” is displayed, the position of the swing louver sets horizontal automatically. (The display of remote control keeps the set position)
When heat preparation ends and normal operation starts, the position of the swing louver returns to the set position.

FOR COMFORTABLE USE
See page 12

CHECK INDICATION, FILTER SIGN

Ceiling suspended (FDE)

When there is something wrong with the air conditioner:
- Immediately after the timer/check indicator lamp flashed (lights for 2.5 seconds and blinks for 0.5 seconds), the air conditioner stops.
- Address No. and error code are shown on the display on the indoor unit.
- The control display is turned off after the display time elapses.
- When nothing is displayed on the monitor, operate the remote control or press the BACKUP button to resume.

Please contact your dealer and inform them “address No. and error code”, “symptom of the trouble”, “air conditioner type” and “model name” etc.

For FDTW, FDK and FDFW, address No. is not shown on display.

WHEN SHORT FLASHING LIGHT (                         ) IS SHED FROM THE TIMER/CHECK INDICATOR LAMP (YELLOW)

When cumulative running time reaches to 120 hours, long flashing light (lights for 2 seconds and blinks for 1 second) is shed from the timer/check indicator lamp.
After cleaning of filter, press the FILTER button on the remote control to turn off the filter cleaning sign. (Press the button for one second or more)

NOTICE
The cumulative running time for filter sign can be changed. Consult your dealer for more information.

Detail of display
Follow the instruction mentioned below according to the indoor unit type.

Ceiling cassette-4 way-(FDT)
Ceiling cassette-4 way Compact (600x600mm)-(FDTC)
Ceiling cassette - 2 way (After FDTW-KXE6F)
Floor standing -2way- (FDFW)
Wall mounted (FDK)

NOTICE
For FDTW, FDK and FDFW, check indicator lamp “check1” / “check2” shows error code.
The number of blinks shows the error code number of tens/ones place and check1/2 corresponds to tens/ones place.

See page 16.
HOW TO MAINTAIN

How to clean the Air Filter
Clean the filter frequently for economical operation.

Caution Before cleaning, stop the operation and turn off the power supply. Otherwise, it may lead to injury as fan inside rotates at high speed.

Caution Do not operate the air conditioner while the air filter is removed.

How to remove
Follow the instruction mentioned below according to the indoor unit type.

Ceiling cassette -4 way-(FDT)
1. Hold the stoppers on the grille (2 places) to the "OPEN" direction (arrow mark 1), and then pull down to open the grille. Remove the hooks of the grille to dismount it.

<How to mount the filter>
1. Check that the filter is on the right side and that its orientation is correct. Then, hook it to the hooks. Insert in the way indicated with arrow mark 2.
2. Ensure to insert the holders of the grille into the filter’s holes until clicking sounds are heard.

Wall mounted (FDK)
+ FDK22-56

<How to handle inlet grille/filter>
Removal

• How to handle inlet grille/filter
In case of battery exhausted, or loss or any trouble of remote control, the air conditioner can be operated with the BACKUP button on the indoor unit display part.

Backup button

Ceiling cassette -4 way Compact (600x600mm) -(FDTC)

In case of FDE/FDT/FDT/C/FDK/FDFW

Press backup button and leave it untouched for two seconds.

The operation starts.

Press it again to stop the operation.

Backup button

Timer

Operation mode .......... AUTO Fan speed .................. H
Timer ....................... No setting
Set temp ................... 23°C
Auto swing ................ STOP (HORIZONTAL)

Backup button

Ceiling cassette -2 way- (FDTW)

Wall mounted (FDK)
• FDK71

<How to remove the filter>
1. Push holders (arrow mark 3) and filter frame (arrow mark 2'), and remove the filter from the holders. Then, slide the filter in the indicated direction (3) to remove it from the grille.

<How to mount the grille>
1. Mount the hooks of the grille to the holes on the panel. (The hooks on the grille can be mounted in all 4 directions.)
2. Close the grille while pressing the stoppers on the grille (2 places) to the "OPEN" direction. Then, release the stoppers.

<How to maintain the grate securely>
Otherwise, it may lead to decreased efficiency due to leakage of flow from the gap.

<When the stopper is deformed or damaged, repair or replace without delay.> Otherwise, the grille may fall.

Floor standing -2way- (FDFW)

Ceiling cassette -4 way-(FDT)

1. Push one side of the inlet panel (pin A side) upward.
2. Disengage the panel from pin A.
3. Disengage the panel from the pin B and remove the panel.
4. Press the air filter and turn the stopper to remove the air filter.

<How to remove the grille>
1. Hold the stoppers on the grille (2 places) to the "OPEN" direction (arrow mark 1), and then pull down to open the grille. Remove the hooks of the grille to dismount it.

<How to mount the filter>
1. Check that the filter is on the right side and its orientation is correct. Then, hook it to the hooks. (Insert in the way indicated with arrow mark 2.)
2. Ensure to insert the holders of the grille into the filter’s holes until clicking sounds are heard.
### HOW TO MAINTAIN

#### Ceiling cassette - 4 way Compact (600×600mm) – (FDTC)
1. Slide the inlet grille lever in the direction of the arrow (→), and open it downwards.
2. Release the inlet grille stopper.
3. Pull the filter towards you.
4. When the filter is in place, insert the hooks on the inlet grille, and be sure to return the stopper to its original position.
5. When pulling the inlet grille back in place, slide the levers in the opposite direction and check to be sure that the grille does not come open.
6. When mounting, press the lever forward until it snaps.

#### Ceiling suspended (FDE)
1. Slide the lever of the inlet grille backward (← direction) and open it downwards.
2. Pressing the inlet grille, press the filter to remove it from the tab and pull it downwards.
3. Release the inlet grille stopper.
4. When the filter is put in place, insert the filter into the hooks on the inlet grille.

#### Ceiling cassette - 1 way – (FDTS)
1. Slide the lever of the suction grille in the arrow (→) direction to open the grille.
2. While light pushing up, remove the filter from the intake grille, and pull towards the front.

#### Ceiling cassette - 1 way compact – (FDTQ)
1. Slide the lever of the suction grille in the arrow (→) direction to open the grille.
2. While light pushing up, remove the filter from the intake grille, and pull towards the front.

#### Wall mounted (FDK)
1. Pull up the suction grille forward.
2. Lightly hold the handle of the air filter, slightly lift it upward, and then pull it out forward.

### How to remove, install the filter

**Remove**
1. Pull up the air inlet panel forwards.
2. Lightly hold the knobs at the both sides and lift a little to remove the panel forward.

**Install**
1. Hold firmly the filter at the both sides as shown at right and install securely.
2. Close the air inlet panel.

#### Floor standing -2way- (FDFW)
**How to open, close the inlet panel**
- **Open**: Place fingers at the recesses on both sides of the panel and pull down the panel forward so that it will be open by about 15°.
- **Close**: Push both ends evenly and press further lightly at the center.

**How to remove, install the filter**
- **Remove**:
  1. Pull up the air inlet panel forwards.
  2. Lightly hold the knobs at the both sides and lift a little to remove the panel forward.
- **Install**: Secure the upper edge of the panel by lightly pushing it in, place the string as illustrated and then close the panel.

### Duct connected –High static pressure– (FDU)
- **Duct connected –Middle static pressure– (FDUM)
- **Duct connected –Compact & Flexible– (FDUH)
- **Duct connected –High static pressure Out door Air processing unit (FDU-F)
- **Duct connected –Low static pressure– (FDUH)

**Air filter**
- **Air filter is attached when the air conditioner is installed, so consult your dealer about how to remove or clean it.**

**How to clean**
1. Wash away for cleaning. If it is not so dirty, tap it or use cleaner.
2. If it is very dirty, dissolve some neutral detergent in lukewarm water (approximately 30°C), rinse the filter with it and wash off the detergent away completely.
3. After the air filter is dried, mount it to the main body and press RESET button.

**ATTENTION**
- Do not dry by exposing the air filter to the direct sunlight or using fire. Otherwise, the filter may be damaged.
- Do not operate the air conditioner with the filter removed. Otherwise it may lead to troubles.

#### Floor standing (with casing) (FDFL)
- **Remove**
  1. Pull up the air inlet panel forwards.
  2. Lightly hold the knobs at the both sides and lift a little to remove the panel forward.

**Install**
1. Hold firmly the filter at the both sides as shown at right and install securely.
2. Close the air inlet panel.

#### Floor standing (without casing) (FDFU)
- **Remove**
  1. Pull the air filter out from the bottom of the unit.

**How to remove, install the filter**
- **Remove**
  1. Pull up the air inlet panel forwards.
  2. Lightly hold the knobs at the both sides and lift a little to remove the panel forward.
- **Install**: Secure the upper edge of the panel by lightly pushing it in, place the string as illustrated and then close the panel.

### How to clean
1. Wash away for cleaning. If it is not so dirty, tap it or use cleaner.
2. If it is very dirty, dissolve some neutral detergent in lukewarm water (approximately 30°C), rinse the filter with it and wash off the detergent away completely.
3. After the air filter is dried, mount it to the main body and press RESET button.

**ATTENTION**
- Do not dry by exposing the air filter to the direct sunlight or using fire. Otherwise, the filter may be damaged.
- Do not operate the air conditioner with the filter removed. Otherwise it may lead to troubles.

#### Maintenance of the unit
- **Clean the unit by wiping with a piece of soft dry cloth.**
- **Clean the indoor/outdoor units.**
- **Clean the indoor/outdoor units.**

### AT THE END OF THE PERIOD OF USE
- **Clean the unit by wiping with a piece of soft dry cloth.**
- **Make sure to turn off the power supply.**
- **Clean the air filter and mount it.**
- **Clean the indoor/outdoor units.**

### AT THE BEGINNING OF THE PERIOD OF USE
- **Clean the unit by wiping with a piece of soft dry cloth.**
- **Clean the indoor/outdoor units.**
- **Clean the indoor/outdoor units.**

---

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**TROUBLESHOOTING**

**Check the following items before requiring service.**

<table>
<thead>
<tr>
<th>The unit does not work at all</th>
</tr>
</thead>
<tbody>
<tr>
<td>Is the power supply switch turned off?</td>
</tr>
<tr>
<td>Is a blackout or is the fuse blown?</td>
</tr>
<tr>
<td>Is the leakage breaker activated?</td>
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<tr>
<td>Are there any obstacles blocking the air inlet and outlet grill?</td>
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</table>

**POOR COOLING OR HEATING**

<table>
<thead>
<tr>
<th>The air conditioning system starts to draw air from it</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sound of humming or humming may be heard when the operation is started, when the compressor is activated during heating or when the operation is stopped. These are the sounds of the refrigerator drawing air through the system.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Sound of humming or humming may be heard from the indoor unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>These sounds can be heard when the air conditioning system is performing automatic control.</td>
</tr>
</tbody>
</table>

**The phenomena mentioned below is not malfunction.**

<table>
<thead>
<tr>
<th>Is the air filter clogged?</th>
</tr>
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**Is there a problem with the remote control display area?**

<table>
<thead>
<tr>
<th>Is the direct daylight coming into the room?</th>
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<tbody>
<tr>
<td>Is there any unexpected heat source in the room?</td>
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<td>Are there too many people in the room?</td>
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<tr>
<th>Is the thermostat set correctly?</th>
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<tr>
<td>The unit may be set to operate at the same level as before power supply is cut.</td>
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**PREPARATION AT HEATING**

**TROUBLESHOOTING**

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</tbody>
</table>
The following button operations can be disabled. If the button is pressed, "<Wired remote control>
button" is displayed indicating that the button is disabled, and the original display returns. Consult your dealer for setting.

1. button
2. TEMP button
3. LOUVER button
4. MODE button
5. FAN SPEED button
6. TIMER button

### INSTALLATION LOCATION

- Is the system installed in a well-ventilated place?
- Are there any obstacles? If so, it leads to the decrease of the efficiency and the increase of operation noise.

### INSTALLATION, RELOCATION, AND INSPECTION MAINTENANCE

- ELECTRICAL WORK
  - **Warning:** Make sure to consult a dealer or specialist if it is required to relocate and reinstall the air conditioning system.
  - If the air conditioning system is installed incorrectly, water leakage, electric shock and/or fire may occur. Note that an installation fee will be charged for relocation and installation.
  - **Caution:** Make sure to perform grounding work. Do not connect the ground wire to any gas pipe, water pipe, or wires of lightning conductors and telephones. If the ground work is not good, it may lead to electric shock.
  - **Caution:** A leakage breaker is necessary depending on the installation environment. If it is not mounted there, it may lead to electric shock.
  - Only qualified specialists of electrical and grounding work can do these works according to electric equipment technical standards.
  - Is the wiring designated for the air conditioner?
  - Is the remote control mounted correctly?
  - Is the remote control mounted at a height where children cannot reach?

- **INSTALLATION, RELOCATION, AND INSPECTION MAINTENANCE**
  - **Warning:** Make sure to consult a dealer or specialist if it is required to relocate and reinstall the air conditioning system.
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### INSTALLATION, RELOCATION, AND INSPECTION MAINTENANCE

#### OPERATION RANGE

- Please use the system in the following operation range. If the system is operated outside this range, the protective controls may be activated to prevent malfunction.

<table>
<thead>
<tr>
<th>Operation</th>
<th>Outdoor air temperature</th>
<th>Temperature inside the room</th>
<th>Humidity inside the room</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Cooling operation</strong></td>
<td>Approximately 20 to 30°C</td>
<td>Approximately 4 to 35°C</td>
<td>Approximately 60% or less</td>
</tr>
<tr>
<td><strong>Dry operation</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Heating operation</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

(Nota) Operation range may differ depending on models. Please check the catalog.

### FDU-F

<table>
<thead>
<tr>
<th>Condition</th>
<th>Outdoor air temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Cooling operation</strong></td>
<td>35 - 65°C (95°F wet bulb) Dry-bulb</td>
</tr>
<tr>
<td><strong>Heating operation</strong></td>
<td>-30 - 28°C Dry-bulb</td>
</tr>
</tbody>
</table>
## MAINTENANCE AND INSPECTION GUIDELINE OF MAIN PARTS OF PACKAGED AIR CONDITIONER

This table indicates the details of regular inspection items and their intervals (inspection interval), and the timing of parts replacement under a normal use condition if the equipment falls into a certain category specified by the sense and regulations of each country, conduct this maintenance and inspection according to the specified scale. For the preventive maintenance, the recommended inspection interval is indicated as the “Inspection interval” and the predicted interval of the “Implementation of cleaning and adjustment” or “Implementation of parts replacement and repair” according to the result of the regular inspection is indicated as the “Maintenance interval.” As to the cleaning and adjustment, the timing is set to prevent the accumulation of parts and the degradation of performances. As to the parts replacement and repair after the inspection, the timing is set by examining the operation time or use time, when the wear-out failure period is reached.

### Explanation of symbols
- Conduct the cleaning and adjustment according to the inspection result.
- Conduct the periodic maintenance (preventive maintenance) at the predicted interval.
- Conduct the complete maintenance (impact maintenance) at the predicted interval.
- Conduct the periodic maintenance (preventive maintenance) at the predicted interval.

### Note 1)
Random fault is an unexpected failure which occurs before the wear-out interval. The fault may result from the operating environment, the structure of the equipment, the condition of the parts, and the operation and maintenance. To prevent the random failure, it is necessary to maintain the equipment properly. The random fault is an unpredictable event. To prevent the random fault, it is necessary to maintain the equipment properly.

### Note 2)
The predicted interval marked with "n" indicates the time when the wear-out failure period is reached. The predicted interval marked with "n+1" indicates the time when the wear-out failure period is reached. The predicted interval marked with "n+2" indicates the time when the wear-out failure period is reached.

### Note 3)
The inspection timing of filter is basically every week. However, if the contamination of the filter is not observed, the filter can be inspected every two weeks.

### Note 4)
The inspection timing of filter is basically every week. However, if the contamination of the filter is not observed, the filter can be inspected every two weeks.

---

<table>
<thead>
<tr>
<th>Structural components</th>
<th>Part Name</th>
<th>Details of Inspection</th>
<th>Inspection Method</th>
<th>Criteria</th>
<th>Details of Maintenance</th>
<th>Details of Maintenance</th>
<th>Inspection Interval</th>
<th>Maintenance Interval</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Filter</td>
<td>Visual check of dirt and damage</td>
<td>Visual inspection</td>
<td>There should be no dirt, scratches, or damage</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Ventilation systems parts</th>
<th>Part Name</th>
<th>Details of Inspection</th>
<th>Inspection Method</th>
<th>Criteria</th>
<th>Details of Maintenance</th>
<th>Details of Maintenance</th>
<th>Inspection Interval</th>
<th>Maintenance Interval</th>
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<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>State systems parts</th>
<th>Part Name</th>
<th>Details of Inspection</th>
<th>Inspection Method</th>
<th>Criteria</th>
<th>Details of Maintenance</th>
<th>Details of Maintenance</th>
<th>Inspection Interval</th>
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<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Refrigeration systems parts</th>
<th>Part Name</th>
<th>Details of Inspection</th>
<th>Inspection Method</th>
<th>Criteria</th>
<th>Details of Maintenance</th>
<th>Details of Maintenance</th>
<th>Inspection Interval</th>
<th>Maintenance Interval</th>
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<td>Visual inspection</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
The distinction between the indoor and outdoor assumes the air conditioner for a store and a multiple-air conditioner for a building. This may vary depending on the configuration of the unit, such as equipment air conditioner.

**Note 1:** Random fault is an unexpected failure which occurs before the operation starts and how the failure rate increases as the time passes.

**Note 2:** The estimated year marked with " assumes the operating time of 10 hours/day and 2500 hours/year in a normal operating condition without frequent starting. This may vary according to the operating condition. Please check the calculation basis of the estimated year when making a maintenance contract.

**Note 3:** Maintains the estimated timing when the wear-out occurs and how the failure rate increases as the time passes.

---

### Part Name | Details of Inspection | Regular Inspection | Inspection Method | Criteria (Standards) | Details of Maintenance | Maintenance Interval | Remarks |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Grille, etc.</td>
<td>Check of function and location of paint coating, Check of noise</td>
<td>Visual inspection</td>
<td>There should be no existence of fuel generation.</td>
<td>Parts made by plastic coating</td>
<td>Replace if there is any damage such as cracks and fuse.</td>
<td>8 years</td>
<td>-</td>
</tr>
<tr>
<td>Frame, bottom plate, etc.</td>
<td>Check of function and location of the paint coating</td>
<td>Visual inspection</td>
<td>There should be no existence of fuel or damage in heat insulating material.</td>
<td>Replace if heat insulation material is peeled off, repair and stick it.</td>
<td>Repair by heat coating</td>
<td>10 years</td>
<td>-</td>
</tr>
<tr>
<td>Vibration isolation</td>
<td>Check of vibration and location of vibration isolation</td>
<td>Visual and audible inspection</td>
<td>Vibration isolation function should not be impaired</td>
<td>Replace if located onrelevant or impaired</td>
<td>-</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>Fan, fan casing</td>
<td>Visual check of vibration and balance</td>
<td>Visual inspection</td>
<td>Should be in an extremely condition</td>
<td>Replace in case of vibration and extremely noise</td>
<td>-</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>Fan motor</td>
<td>Check of vibration and balance</td>
<td>Visual inspection</td>
<td>Should be no existence of fuel or damage</td>
<td>Replace in case of vibration and extremely noise</td>
<td>-</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>Bearing</td>
<td>Regular lubrication is required</td>
<td>Acoustic inspection</td>
<td>There should be no existence of fuel generation</td>
<td>Replace parts regularly</td>
<td>-</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>Compressor</td>
<td>Sound and vibration at the startup, operation, and stop</td>
<td>Visual, audible, and tactile inspection</td>
<td>There should be no abnormal vibration or noise generation</td>
<td>Replace if abnormal</td>
<td>-</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>Air heat exchanger</td>
<td>Check the clogging and damage due to foreign objects</td>
<td>Visual inspection</td>
<td>There should be no clogging or damage</td>
<td>Replace the air filter size in case of clogging</td>
<td>-</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>Piping in the unit</td>
<td>Gas leakage, contact, and connectivity of piping</td>
<td>Visual inspection</td>
<td>There should be no abnormal vibration, sound, or vibration</td>
<td>Replace if the resistance value is 1.0 MΩ or less, replace the motor.</td>
<td>-</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>Electronic expansion valve</td>
<td>Operation check</td>
<td>Visual, audible, and tactile inspection</td>
<td>There should be no existence of foreign objects</td>
<td>Replace if the resistance value is 1.0 MΩ or less, replace the motor.</td>
<td>-</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>Electronic diagnostic, filter</td>
<td>Gas leakage, contact, and connectivity of piping</td>
<td>Visual inspection</td>
<td>There should be no abnormal vibration, sound, or vibration</td>
<td>Replace if the resistance value is 1.0 MΩ or less, replace the motor.</td>
<td>-</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>Fins</td>
<td>Check of air heat exchanger, etc.</td>
<td>Visual inspection</td>
<td>There should be no existence of foreign objects</td>
<td>Replace in case of vibration and extreme dust adhesion.</td>
<td>-</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>Exposure to dust (mail box, etc.)</td>
<td>Plug valve, gas leakage, insulation resistance, etc.</td>
<td>Visual inspection</td>
<td>There should be no existence of fuel generation</td>
<td>Replace if local gas leakage, or insulation resistance</td>
<td>10 years</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>Appearance check (suction or return line)</td>
<td>Visual inspection</td>
<td>There should be no existence of fuel generation</td>
<td>Replace the device/facility keep without the normal position</td>
<td>-</td>
<td>-</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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**Explanation of symbols**
- Conduct the clearing and adjustment according to the inspection result.
- Conduct the periodic replacement (consumable components).

**S**
- Random failure
- Wear-out failure
- Conduct the periodic replacement (consumable components)
### Part Name | Details of Inspection | Precaution Maintenance* | Elapsed Years | Remarks
--- | --- | --- | --- | ---

#### Consumable Components
- **Fuse**
  - Appearance check
  - Visual inspection
- **Capacitor**
  - Measurement of electrical capacitance
  - Check for liquid leakage
- **Overcurrent relay**
  - Check for liquid leakage

#### Electric Component Box (Including Switch, etc.)
- **Terminal block**
  - Visual inspection
  - Check for deformation or discoloration
  - Replace if there is liquid leakage
- **Electric component box**
  - Visual inspection
  - Check for deformation or discoloration
- **Switching power source**
  - Output voltage measurement
  - Replace if there is voltage abnormality

#### Anti-freezing heater
- **Insulation resistance check**
  - Visual inspection
  - Check for deformation or discoloration
- **Crankcase heater**
  - Visual inspection
  - Check for deformation or discoloration

#### Electric and Mechanical Equipment
- **Cooling fan**
  - Insulation resistance check
  - Check for deformation or discoloration
- **Switching power source (Including FIB, ELB)**
  - Terminal part, connector loosness check
  - Check for deformation or discoloration

#### Explanation of symbols
- **S**: Conduct the cleaning and adjustment according to the inspection result
- **S**: Conduct the periodic replacement (consumable components)

### Note 1)
Random fault is an unexpected failure which occurs before the wear is component, when the service life of the parts and equipment is difficult to establish. It is important to establish a technical measure against the random fault. At the moment, statistical handling is the only measure against the random fault.

### Note 2)
The elapsed year marked with * assumes the operating time as 10 hours/day and 2500 hours/year in a normal operating condition without frequent starting. This may vary according to the operating condition. Please check the calculation basis of the expected year when making a maintenance contract.

### Note 3)
Wear-out failure is an unexpected failure which occurs after the wear is component. The expected year is estimated from the elapsed year when making a maintenance contract.