This air-conditioner complies with following directive.
Machinery 2006/42/EC
Low Voltage 2014/35/EU
EMC 2014/30/EU
Pressure Equipment 2014/68/EU
RoHS 2011/65/EU
Ecodesign 2009/125/EC

Please refer to the manual provided with WIRED REMOTE CONTROL (RC-EX series) and WIRELESS REMOTE CONTROL (RCN-E2, EK2 series)

This Klimaanlage erfüllt die folgende Richtlinie.
Maschinen 2006/42/EC
Niederspannung 2014/35/EU
EMV 2014/30/EU
Drohne 2014/68/EU
RoHS 2011/65/EU
Ecodesign 2009/125/EC
Die CE-Marke gilt für Bereiche mit einer Netzfrequenz von 50 Hz.

This aire acondicionado cumple con la siguiente directiva.
Máquinas 2006/42/EC
Baja tensión 2014/35/EU
EMC 2014/30/EU
Equipos a presión 2014/68/EU
RoHS 2011/65/EU
Ecodesign 2009/125/EC
La indicación CE sólo corresponde a la red de suministro eléctrico de 50 Hz.

Este ar condicionado está en conformidad con as seguintes directivas.
Máquinas 2006/42/EC
Baja tensión 2014/35/EU
EMC 2014/30/EU
Equipamientos sob presión 2014/68/EU
RoHS 2011/65/EU
Ecodesign 2009/125/EC
A marca CE aplica-se a zona de fornecimento de energia a 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.

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

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

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 “⚠️ CAUTION” 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.

### INSTALLATION PRECAUTIONS

⚠️ DANGER

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.

**WARNING**
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.

**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 air flow 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 air flow 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 object around the outdoor unit, nor allow fallen leaves to pile up. Fallen leaves may induce insects and worms in them, and they may lead to failure, ignition or smoking by touching electric components.

Do not use with inlet/outlet grilles or other panel removed. Otherwise, it may lead to injuries.

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 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.
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.

Place the panels removed for repairing or checking on the stable spot. Otherwise, dropping or falling may lead to injury.
HOW TO PERFORM THE TIMER OPERATION  < WIRED REMOTE CONTROL (RC-E series) >

1. Press TIMER 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

2. Press ▲ or ▼ button.

By pressing ▼ or ▲ button, it is possible to choose the item to set.

3. Press ▶ button.

The unit starts to operate at the setting time. The temperature can be set together. It will operate one time per setting.

THE SELECTION OF TIMER MODE

1. Press TIMER button.
The unit starts operating.

2. Press MODE button. The range of operation modes is displayed according to the model of indoor unit. If the indoor unit is not equipped with the auto swing function, the message “NO AUTO” is displayed.

 For the operation mode ☞ See page 11 to 12

- Press LOUVER button, and change the display to “LOUVER”

 For the louver operation ☞ See page 11 to 12

- Press once while the louver is operating to display stop positions in order.
- Press the button once more at the preferred stop position to stop the louver at that position.

 Effective stop position ☞ See page 11 to 12

- For automatic operation: middle

- For cooling/dehumidifying operation:..................Horizontal

- For heating operation:.............................downwards

Stop

Press ON/OFF button

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)

<table>
<thead>
<tr>
<th>Weekly timer</th>
<th>OFF timer</th>
<th>ON timer</th>
<th>Sleep timer</th>
</tr>
</thead>
<tbody>
<tr>
<td>×</td>
<td>×</td>
<td>○</td>
<td>○</td>
</tr>
</tbody>
</table>

Functions of each timer operation

• Sleep timer

When the specified period of time elapses, operation stops. 10 settings are available, from “1 hour” to “10 hours” later OFF.

- The unit will stop when the setting time is reached.

• OFF timer

The unit starts operating 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

- If you press ▶ 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 have set the ON timer mode and either the OFF timer or Sleep timer mode at the same time, the OFF timer (or Sleep timer) precedes the ON timer.

- If you press the 0 Timer button and “NO AUTO” is displayed, the button can not be operated because the button operation is disabled. If you want to make the button effective, consult your dealer.

- If you do not press any button for several minutes after pressing the 0 Timer button, Timer mode ends and the display returns to the original one.

- When the weekly timer setting recovers from power failures, the setting data (four settings per day) remain stored, but holiday settings will automatically override the settings for each day.
HOW TO PERFORM THE TIMER OPERATION  < WIRED REMOTE CONTROL (RC-E series) >

### SETTING THE TIME

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 : 
     ```
     [  MON TUE WED THU FRI SAT ]
     [    1:00 ]
     [    SET ]
     ```

2. **Press SET button.**
   - The display area shows : 
     ```
     [  MON TUE WED THU FRI SAT ]
     [    1:00 ]
     [    SET ]
     ```

3. **Press ▲ or ▼ button.**
   - Place the “▼” mark above the day of the week to the current day.
   - Press ▲ and ▼ mark to move to the right and the left respectively.
   - If you press the ▲ or ▼ button, the remote control will return to the previous screen and display : 
     ```
     [  MON ]
     [  TUE ]
     [  WED ]
     [  THU ]
     [  FRI ]
     [  SAT ]
     [  SUN ]
     [  ■ ]
     [  ▼ ]
     [  SET ]
     ```
   - If you press the ▲ or ▼ button while timer mode is under setting, timer mode is canceled and the display will return to the original one.

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 “[EXAMPLE]” is displayed.
   - If you press the ▲ or ▼ button while timer mode is under setting, timer mode is canceled and the display will return to the original one.

5. **Press ▲ or ▼ button.**
   - Set to the current time.
   - If you press the ▲ or ▼ button while timer mode is under setting, timer mode is canceled and the display will return to the original one.

6. **Press SET button.**
   - The flashing for time display stops and lights, and “[EXAMPLE]” is displayed.
   - Two seconds later, the display in step 1 returns, and “[EXAMPLE]” 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.
- 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.

1. **Press TIMER button.**
2. **Press ▼ button once.**
   - “CLOCK SET ▼” is displayed.
3. **Press SET button.**
   - The display changes as below. Set as you like.
     - 1 If “Current day of the week” is displayed.
       - “Current day of the week” and “Current time” are displayed.
     - 2 “Current day of the week” and “Current time” are displayed.
     - 3 “Current day of the week” and “Current time” are displayed.
8. **Press ▲ or ▼ button.**
   - The “Current day of the week” and “Current time” are displayed.
   - “Current time” value flashes, and “[EXAMPLE]” is displayed.
9. **Press ▲ or ▼ button.**
   - The “Current day of the week” and “Current time” are displayed.
   - “Current time” value flashes, and “[EXAMPLE]” is displayed.
10. **Press ▲ or ▼ button.**
    - The “Current day of the week” and “Current time” are displayed.
    - “Current time” value flashes, and “[EXAMPLE]” is displayed.

---

### 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.**
   - “CLOCK SET ▼” is displayed.
3. **Press SET button.**
   - The display changes as below. Set as you like.
     - 1 “Current time” value flashes, and “[EXAMPLE]” is displayed.
     - 2 “Current time” value flashes, and “[EXAMPLE]” is displayed.
     - 3 “Current time” value flashes, and “[EXAMPLE]” is displayed.
4. **Press ▲ or ▼ button.**
   - Set the time at which you want to stop the operation.
     - When “Ten hours later OFF” is set >
       - Press ▲ and ▼ mark to move to the right and the left respectively.
     - If you press the ▲ or ▼ button, the number in the display becomes larger or smaller by ten minutes.
5. **Press SET button.**
   - “OFF timer has been set.” is displayed.
   - The air conditioner will turn on if a sleep timer is set while it is turned off.
   - After “OFF timer has been set.” is displayed, the display in step 1 returns.
   - “OFF timer has been set.” is displayed.
   - The remaining time is displayed, and changes in an hourly basis.
   - When the setting time elapses, the unit stops operating.
   - Every operation stops after a certain period of time has elapsed.
6. **Press ON/OFF button.**
   - The timer mode is finished.
HOW TO PERFORM THE TIMER OPERATION < WIRED REMOTE CONTROL (RC-E series) >

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.
   ◎ CLICK SET ◯ → ◯ SLEEP TIMER ◯ → ◯ OFF TIMER ◯ → ◯ ON TIMER ◯
3. Press SET button.
   [EXAMPLE] "2:00" flashes,
   ◯ SET TIMER ◯
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 set to 10:00 AM >>
   ◯ (lights) ◯ TEMP SET ON ◯ (lights)
   If you press the ▲ or ▼ or ◯ or ◯ button, the same will move flashing.
6. Press ▲ or ▼ button.
   Press ▲ button and ◯ TEMP SET OFF ◯ is displayed Press ▼ button and ◯ TEMP SET ON ◯ is displayed
   Select either of the above two.
   • Go to step 7 if temperature is set.
   • Go to step 9 if temperature is not set.
7. Press SET button.
   The left image is displayed in the display area.
   <<if set to 10:00 AM >>
   ◯ (lights) ◯ TEMP SET OFF ◯ (lights)
   "27°C" (The current set temperature is displayed flashing)
   ◯ TEMP SETUP ◯ (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 ▲ or ▼ button, the same will move flashing.
9. Press SET button.
   ON timer is set, and after ◯ TIMER SET OK ◯ is displayed, the display in step 2 returns.
   <<if set to 10:00 AM >>
   ◯ (lights) ◯ TEMP SET OFF ◯ (lights)
   ◯ TEMP SETUP ◯ (lights)
   ◯ ON TIMER ◯
   ◯ Set temperature is displayed only in case it is set.
   The unit starts to operate at setting time with set temperature.
   The time display is turned off.
10. Press ON/Off button.
    The timer mode is finished.

NOTICE

• If you press the ◯ 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 is canceled and the display will return 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) precedes.

WEEKLY TIMER MODE

Selection of Weekly timer mode
You can set up to four ON/OFF timers per day.

Note : Set time every month in Weekly timer mode.

1. In the Weekly timer mode, select "" TIMER SET ◯ " and press SET button to confirm.
   ☞ See step 1 to 5 in “Selection of Weekly timer mode” above
   " SAT, SUN, MON, TUE, WED, THU, FRI, SAT ◯ (lights) ◯ " is flashing
   ◯ " SAT, SUN, MON, TUE, WED, THU, FRI, SAT ◯ (lights) " is displayed in the display area.
2. Press ▲ or ▼ button.
   Set the ▲ mark above the day of the week to the day to be set for timer setting.
   Press ▲ button to move the right and left respectively ▲ and ▼ will move flashing.
   If you press the ▲ button, the day ("SUN" to "SAT") indicated with the flashing ▲ mark will change one day at a time.
   If you press the ▲ button when the ▲ mark is indicating "SAT", multiple ▲ marks will appear and flash above "MON" to "FRI".
   Press the ▲ button again, and multiple ▲ marks will appear and flash above "SUN" to "SAT" (every day).
   The same schedule can be applied to all the days indicated with the ▲ marks by using this function.
   Press ◯ RESET ◯ button to return to "selecting Weekly timer mode screen", and ◯ TIMER SET ◯ is displayed.
   ☞ See the above step 3.
3. Press SET button.
   The ▲ mark above the day stops flashing and lights, which indicates that the setting is fixed.
   ◯ SELECT ◯ is displayed as the left image.
4. Press ▲ or ▼ button.
   Up to four schedules can be set for each day.
   Select the timer schedule number you want to set.
   Set either ON timer or OFF timer for each single operation. (See the left EXAMPLE )
   Press ▲ button to make the ▲ mark next to the number flash and move downwards.
   Press the ▲ button to move the mark upwards.
   1
   2
   3
   4
   Press the ◯ RESET ◯ button to return to the display in step 1.
5. Press \textbf{SET} button.  
- If ON timer ▲ or OFF timer ▼ is displayed, press the \textbf{SET} button and the display changes as shown on the left.

6. Press ▲ or ▼ button.  
- Press ▼ button and the OFF timer ▼ is displayed.
- Press ▲ button and the ON timer ▲ is displayed.
- Select either of the above two.
- Press the \textbf{RESET} button to return to the display in step 3.

7. Press \textbf{SET} button.  
- If ON timer ▲ is displayed, press \textbf{SET} button.

8. Press ▲ or ▼ button.  
- Set the time.
- Press the \textbf{RESET} button to return to the display in step 5.

9. Press \textbf{SET} button.  
- When time display lights, the time is fixed.
- In case of OFF timer setting, setting process is completed on this step.
- A “_” mark lights (MON → MON) under the day of the week which you set and the display appears as the left image.
- Proceed to “Next setting and exiting Weekly timer mode” on the right page.
- In case of ON timer setting, “\textbf{TEMP SET}” ▼ is displayed, proceed to step 10.

10. Press ▲ or ▼ button.  
- Select either “\textbf{TEMP SET}” ▼ or “\textbf{TEMP SET}” ▲.

11. Press \textbf{SET} button.  
- In case “\textbf{TEMP SET}” ▲ has been selected, ON timer setting process is completed.
- A “_” mark lights (MON → MON) under the day of the week which you set and the display appears as the left image.
- Proceed to “Next setting and exiting Weekly timer mode” on the right page.
- In case “\textbf{TEMP SET}” ▼ has been selected, “\textbf{AVATOP}” ▲ is displayed, Proceed to step 12.

12. Press the temperature setting buttons ▲ or ▼.  
- Press the ▲ or the ▼ button to increase or decrease by 1°C.
- Set the temperature at the start of operation.
- Press the \textbf{RESET} button to return to the display “\textbf{TEMP SET}” ▼.

13. Press \textbf{SET} button.  
- ON timer setting with start-up temperature has been completed.
- The value of the temperature stops flashing and lights.
- A “_” mark lights (MON → MON) under the day of the week which you set and the display appears as the left image.
- Proceed to “Next setting and exiting Weekly timer mode” on the right page.

\textbf{NOTICE}

- If you press \textbf{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.

- 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 “◄” 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.

\textbf{Display after Weekly timer modes setting}

- The day of the week set is underlined.
- The ▲ 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 ▲ mark indicates the next setting number to be activated, and the set time is displayed.
- 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.
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”.
   ☞ See “Selection of Weekly timer mode” step 1 to 5 on page 7.
   - “HOLIDAY SET” is displayed in the display area (Y is flashing).
   - “SET DAY” is displayed.

2 Press ▲ or ▼ button.
   Move the “Y” mark displayed above the days of week to the day which you want to set as Holiday.
   Press ▲ and ▼ to move to the right and left respectively.
   If you press the ▲ button, the day (“SUN” to “SAT”) indicated with the flashing “Y” mark will change one day at a time. If you press the ▼ button when the “Y” mark is indicating “SAT”, multiple “Y” marks will appear and flash above “MON” to “FRI”. Press the ▲ button again, and multiple “Y” marks will appear and flash above “SUN” to “SAT” (every day). The same schedules can be applied to all the days indicated with the “Y” marks by using this function. This can be used in case you would like to apply Holiday setting to these days.

   In case press the ▲ button, the remote control will return to the previous screen and display “HOLIDAY SET”.

3 Press ◁ SET button.
   The “Y” mark above the day stops flashing and lights, and the day set as a holiday also lights enclosed with (). Then, the following is displayed.
   - “HOLIDAY SET” (lights for two seconds)

   After the holiday setting has been completed, the display of the remote control returns to that of step 1. Repeat step 2 and 3 to continue setting further holidays.

   NOTICE
   If you set a day of the week for which no timer operation is set, “HOLIDAY SET” is displayed for two seconds and the display returns to the one shown in step 1.

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

Canceling Holiday Setting

1 In the Weekly timer mode, select and set “HOLIDAY SET”.
   ☞ See “Selection of Weekly timer mode” step 1 to 5 on page 7.

2 Press ▲ or ▼ button.
   Move the “Y” mark displayed above the day of week to the day on which you want to cancel Holiday setting.
   Select the day of the week that has been set as holiday.

3 Press ◁ SET button.
   After the holiday setting has been completed, the display of the remote control returns to that of step 1. Repeat step 2 and 3 to continue canceling further holiday settings.

   NOTICE
   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.

   • 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/CANCEL”.
   ☞ See “Selection of Weekly timer mode” step 1 to 5 on page 7.
   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. (But if not set, “ ” is displayed.)

2 Press ▲ or ▼ button.
   Detailed timer operation settings are displayed in accordance with the timer operation you have selected.
   Press ▲ button to display from Sunday and the lowest timer operation number.
   Press ▼ button to display the settings in the reverse order.

3 Press ◁ ON/OFF button.
   Timer mode ends.

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/CANCEL”.
   ☞ See “Selection of Weekly timer mode” step 1 to 5 on page 7.
   The display shows the detailed timer operation setting information of the smallest timer operation number on the day of the weak as shown on the left.

2 Press ▲ or ▼ button.
   Detailed timer operation settings are displayed in accordance with the timer operation you have selected.
   Press ▲ button to display from Sunday and the lowest timer operation number.
   Press ▼ button to display the settings in the reverse order.
   Select the timer operation number on a day of the week you want to cancel.

3 Press ◁ SET button.
   “CANCEL?” is displayed.

   If you press the ◁ RESET button, the remote control will return to the previous screen, and display “CHECK/CANCEL”.

4 Press ◁ SET button.
   “CANCEL?” is displayed again.
   If you press the ◁ RESET button, the remote control will return to the previous screen, and display “CHECK/CANCEL”.

5 Press ◁ ON/OFF button.
   Timer mode ends.
### HOW TO PERFORM THE TIMER OPERATION < WIRED REMOTE CONTROL (RC-E series) >

**TIMER CANCELLATION MODE**

1. **Press TIMER button.**
   - Timer mode begins.
   - The current “The day of the week” and “the current time” are displayed.
   - The system applies the silent operation mode at the starting time to be set and finish it after a certain period of time has passed.
   - Once the system is set to operate with the silent mode, the setting is applied everyday until it is canceled.

2. **Press \( \mathbf{\downarrow} \) button for five times.**
   - If \( \mathbf{\downarrow} \) button is pressed, “SILENT MODE” is displayed.
   - If \( \mathbf{\uparrow} \) button is pressed, “CANCELED” is displayed.

3. **Press RESET button.**
   - The settings are displayed as shown below.
   - The settings are displayed as shown below.
   - If you would like to quit cancellation, press the \( \mathbf{\uparrow} \) button to return to the original display.

4. **Press \( \mathbf{\uparrow} \) or \( \mathbf{\downarrow} \) button.**
   - By pressing \( \mathbf{\uparrow} \) or \( \mathbf{\downarrow} \) button, it is possible to choose the item to cancel.
   - “SLEEP TIMER”
   - “OFF TIMER”
   - “ON TIMER”
   - “WEEKLY TIMER”
   - “TIMER CLOCK”
   - “CANCEL”

5. **Press \( \mathbf{\uparrow} \) or \( \mathbf{\downarrow} \) button.**
   - The display of the detailed timer setting is turned off, and returns to the original one.

6. **Press \( \mathbf{\uparrow} \) or \( \mathbf{\downarrow} \) button to set the duration.**
   - The day of the week display area turns off, and after the message “CANCELLED” is displayed again.
   - The settings are displayed as shown below.
   - The setting display turns off, and returns to original display.

7. **Press ON/OFF button.**
   - Timer mode ends.

### HOW TO OPERATE IN SILENT MODE < WIRED REMOTE CONTROL (RC-E series) >

**SILENT MODE**

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

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

2. **Press SET button for three seconds or more.**
   - The system applies the silent operation mode at the starting time to be set, and finish it after a certain period of time has passed.

3. **Press \( \mathbf{\downarrow} \) or \( \mathbf{\uparrow} \) button.**
   - If \( \mathbf{\downarrow} \) button is pressed, “SILENT MODE” is displayed.
   - If \( \mathbf{\uparrow} \) button is pressed, “CANCELED” is displayed.
   - Select “SILENT”.
   - If you press the \( \mathbf{\uparrow} \) button, the remote control return to the original screen.

4. **Press SET button.**
   - The following setting is displayed.
   - “ON” (flashing)

5. **Press \( \mathbf{\downarrow} \) or \( \mathbf{\uparrow} \) button.**
   - Set the “ON TIME.”
   - “OFF TIME”
   - “ON TIME”
   - “WEEKLY TIMER” (cancelling all days of the week)

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

7. **Press \( \mathbf{\downarrow} \) or \( \mathbf{\uparrow} \) button to set the duration.**
   - “ON TIME”
   - “OFF TIME”

8. **Press SET button.**
   - The setting is fixed and displayed.
   - “CANCELED” is displayed, and the silent mode setting ends.
   - The setting display turns off, and returns to original display.
**HOW TO ADJUST THE LOUVER**  
(WIRED REMOTE CONTROL (RC-E series))

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

**[IN CASE OF FDT, FDTC, FDE, FDK, FDFW]**

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

![Image of louver adjustment](image1.png)

**When you operate the swing louver**

1. Press [ LOUVER ] button, and change the display to "SWING".

**The display during swing**

- **SWING**
- **STOP**

2. Press [ LOUVER ] button when the display of the louver comes to the position you desire.

**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>

3. Press [ LOUVER ] button once to change the display to "LOUVER STOP".

**The display during stop**

- **SWING**
- **LOUVER STOP**

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

![Image of louver position fixed](image2.png)

**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.

- SELECT 1 → SELECT 2 → SELECT 3 → SELECT 4

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.

**NOTICE**

- For FDE and FDK type, set louver No. 1.
- For FDFW type, set louver No. 2.

**CAUTION**

- 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)

**[IN CASE OF FDF]**

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

![Image of louver position fixed](image3.png)

**HOW TO SET THE AIR FLOW DIRECTION**  
(IN CASE OF FDT, FDTC, FDE, FDK, FDFW)  
(WIRED REMOTE CONTROL (RC-E series))

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.

   ![Image of remote control](image4.png)

   **DATA LOADING**
   
   - [ SET ]
   - [ LOUVER ]

   The following is displayed if the number of the indoor units connected to the remote control is one. Go to step 4.

   - [1]/[1000]
   - [1]/[10001]
   - [2]/[10002]
   - [3]/[10003]

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

   Select the indoor unit of which the louver is set.

   **[EXAMPLE]**
   
   - [1]/[10001]
   - [2]/[10002]
   - [3]/[10003]
   - [4]/[10004]

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

   Selected indoor unit is fixed.

   **[EXAMPLE]**
   
   - [1]/[1000]
   - [2]/[10001]
   - [3]/[10002]
   - [4]/[10003]

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

   Select the louver No. to be set according to the left figure.

   **[EXAMPLE]**
   
   - [1]/[10001]
   - [2]/[10002]
   - [3]/[10003]
   - [4]/[10004]

   **NOTICE**

   - For FDE, select "Outer louvers 1, 2, 3, 4". Other louver No. settings have no effect.

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.

   **[EXAMPLE]**
   
   - [1]/[10001]
   - [2]/[10002]
   - [3]/[10003]
   - [4]/[10004]

6. Press [ ] or [ ] 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.

   "position --" is to return to the factory setting. If you need to change the setting to the factory setting, use "position --".

   **[EXAMPLE]**
   
   - [1]/[10001]
   - [2]/[10002]
   - [3]/[10003]
   - [4]/[10004]

   **[EXAMPLE]**
   
   - [1]/[10001]
   - [2]/[10002]
   - [3]/[10003]
   - [4]/[10004]
1. Press \( \text{SET} \) 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.

   \[ \text{[EXAMPLE]} \]
   - \( \#1 \text{ UPPER} 2 \) (lights for two seconds)
   - \( \#1 \text{ LOWER} 5 \) (shows current setting)

2. Select the air flow from AIR SELECTION button on the unit display.

   In case of selecting to upper air flow:
   - Press the AIR FLOW SELECTION button once.
   - UPPER AIR FLOW LED will light for ten seconds.
   - In case of selecting to upper and lower air flow:
     - When UPPER AIR FLOW LED is lit by pressing AIR FLOW SELECTION button, press AIR FLOW SELECTION button once again.
     - UPPER AIR FLOW LED will turn off.

8. Press \( \text{△} \) or \( \text{▼} \) 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 --".

   \( \#1 \text{ LDRR 1} \) (the most horizontal)
   \( \#1 \text{ LDRR 2} \)
   \( \#1 \text{ LDRR 3} \)
   \( \#1 \text{ LDRR 4} \)
   \( \#1 \text{ LDRR 5} \)
   \( \#1 \text{ LDRR 6} \) (the most downwards)
   \( \#1 \text{ LDRR --} \) (return to the position of shipment)

9. Press \( \text{SET} \) 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.

   \[ \text{[EXAMPLE]} \]
   - \( \#1 \text{ LDRR 2} \) (lights for two seconds)
   - \( \text{SET COMPLETE} \)

10. Press \( \text{ON/OFF} \) button.

    Louver adjusting mode ends and returns to the original display.

**NOTICE**

- If you press \( \text{RESET} \) button during settings, the display will return to previous display. If you press \( \text{ON/OFF} \) 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.

**FOR COMFORTABLE USE**

**AIROUTLET SELECTION**

It is possible to switch between the combination of upper and lower air outlets and upper air outlet.

1. Stop the air conditioner.
2. Set the upper and lower limit position of the louver No.1 from the wired remote control.
3. For the method of changing the setting, refer to HOW TO SET THE AIR FLOW DIRECTION on page 11.

   \[ \text{[EXAMPLE]} \]
   - Set the upper and lower limit position to UPPER 5 and LOWER 5. (No.1 UPPER 5 / LOWER 5)

**Clean the filter frequently**

- See page 17

   - If the filter is clogged...
     - The cooling/heating capacity will get reduced. Moreover it leads to waste of electricity and larger operation noise.
     - It may cause failure.
     - Dew may form and stop during cooling.
     - Do not block the inlet and outlet grilles of the indoor and outdoor units.
     - Excessive load to the unit may cause failure.
     - Keep moderate room temperature
     - Too much cooling or heating is not good for your health. It will also waste the electricity.

   - The filter should be cleaned when the "Filter cleaning" message is displayed, and at the ends of cooling and heating seasons.

**Block direct sunlight and prevent draft**

- Block direct sunlight with blinds and curtains during cooling. Close the windows and doors except when ventilation is necessary.

   - Adjust the air flow properly

     - Do not expose yourself directly in the air flow for too long time. For small animals and plants, it is harmful as well.

   - If you feel cold underneath your feet during heating

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

   - Stop the operation and turn the power supply off if there are any possibility of lightning

     - Striking during a thunderstorm.

     - Lightning strikes may lead to the failure of air-conditioning system.


< WIRED REMOTE CONTROL (RC-E series) >

WHEN THE CHECK INDICATOR LIGHT (RED) FLASHERS

- The air conditioner stops in the event any trouble occurs. At the same time, the check indicator light flashes in red and the error code is displayed in the ON timer display area and the warning is displayed in the display area.

1/1000 s ~ PROTECT STOP

(Air conditioner number) (lights for 2 seconds by turns)

ERROR display when multiple indoor units are connected

- If errors have occurred for all the connected air conditioning units, Initially, the error display shows the formation of the air conditioning unit whose number is the lowest. Errors of each air conditioning unit can be checked with the following procedure.

- 1 Press AIR CON No. button. Enter AIR CON No. display mode.
- 2 Press button. AIR CON No. and error codes are displayed in order from the lowest. Press button to display in the reverse order.
- 3 Press button. Return to the AIR CON of the lowest number.

- If errors have occurred for some of the connected AIR CON units, Only the units for which errors have occurred stop operating. The remote control controls the operating units.

- 1 Press AIR CON No. button. AIR CON No. display mode appears.
- 2 Press button. AIR CON No. are displayed in order from the lowest. and error codes are displayed on the unit in trouble. Press button to display in the reverse order.
- 3 Press button. Return to the AIR CON of the lowest number.

NOTICE

• If button is pressed once while errors are displayed, the error display is turned off, and the stop mode returns.
• If button is pressed again, the errors are displayed.

ROOM TEMPERATURE DISPLAY

If room temperature display setting is activated, room temperature is displayed on the remote control display. Then air flow display off, but air flow adjusting button is operative. Consult your dealer for settings.

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 indicated per 1 second at intervals of 5 seconds when the air conditioners is in operation.

NAMES AND FUNCTIONS OF REMOTE CONTROL BUTTONS (WIRELESS REMOTE CONTROL (RCN-EIR series))

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

NOTICE

- If no error occurs, the following displays will be skipped.

STANDBY DISPLAY

during the first operation after breaker power supply input or the recovery from power failure. "PREPARE" can be displayed on the remote control for max 30 minutes. The refrigerant oil protection control is activated to protect the compressor and this is a failure. Please wait till the display turns off.

BACK UP DISPLAY

Preparing

The room temperature display

WIRELESS REMOTE CONTROL HANDLING PROCEDURE

REPLACING THE BATTERIES

If the following occurs, the batteries are exhausted. Replace them with new ones.

• When the signal is transmitted, the AIR CON does not display reception.
• The display fades away or does not show anything.

1 Pull out the cover.

2 Replace the old batteries with new ones. (R6P15)

3 Close cover.

4 Adjust the current time.

(When any error occurs on the display)

Pressing the preparation button after the remote control is set to "Radio Interference Prevention Setting" is impossible to be sent in two ways.

ATTENTION

- Do not use old and new batteries mixed.
- Remove the batteries when the remote control is not used for a long time.
- The recommendable effective period of a battery is about 6 to 12 months. (It depends on the usage.)
- The effective period is shorter than 3 months.
- The battery may be still working in order after expiry date.

[IN CASE OF FDUF]

The setting temperature of the remote controller indicates the outdoor temperature while operating thermostat ON/OFF.

SETTING CHANGE OF AUTOMATIC OPERATION

Automatic operation of the KK (except XKP) cannot be selected. When automatic operation is selected in this unit, set the remote controller to the automatic operation.

In case of FDUF

If the display of remote control has troubles, press ACL switch.

NOTICE

• If the remote control is set as "Radio Interference Prevention Setting", it returns to default when the batteries are removed. It is necessary to perform the next procedures again.

ATTENTION

The remote control can be mounted on the wall or pillar with the remote control holder. Slide from the upper part of the holder to place or take out the remote control.

ABOUT REMOTE CONTROL HOLDER

ATTENTION

Do not place the remote control to the following places.

- The place exposed to direct sunlight or strong sunlight.
- The place exposed to high temperature, for example, in a car or near a stove.

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ATTENTION

Do not place the remote control to the following places.

- The place exposed to direct sunlight or strong sunlight.
- The place exposed to high temperature, for example, in a car or near a stove.
- The place exposed to direct sunlight or strong sunlight.
- The place exposed to high temperature, for example, in a car or near a stove.

ATTENTION

Danger of electric shock.

Do not use old and new batteries mixed.

Replacing the batteries

Replace the old batteries with new ones.

ATTENTION

Pull out the cover.

Replace the old batteries with new ones.

ATTENTION

Pull out the cover.

Replace the old batteries with new ones.

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Replace the old batteries with new ones.

ATTENTION

Pull out the cover.

Replace the old batteries with new ones.

ATTENTION

Pull out the cover.
HOW TO USE < WIRELESS REMOTE CONTROL (RCN-EIR series) >

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 icons. The mode will change in the following order by pressing the button.
AUTO ⎯ COOL ⎯ DRY ⎯ HEAT ⎯ FAN
(The automatic operation can be selected in case of heat recovery system KXR only. In case of KX, the automatic operation cannot be selected. In this case, setting changes it 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 while 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
COOL mode operation ......... Intermediate
Heating mode ................. Downwards

Guideline of room temperature setting

COOL .............26 to 28°C
DRY .............21 to 24°C
HEAT .............22 to 24°C
FAN ..TEMP setting is unnecessary

• Operation mode can be changed even when the unit stops.
• If you operate under the same condition (operation mode, set temperature, air flow, louver) just follow step 1, no other operations are necessary. The conditions which were set previously are indicated on the remote control.

CURRENT TIME SETTING PROCEDURE

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

EXAMPLE] AM (morning) 8:00 setting

1 Press TIME SET UP switch.
Press it 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 After noon : PM
The displayed time changes by 1 minute when pressing the button.
• If or button is pressed during the blinking, fast-forward or fast-backward can be done.

NOTICE
• In case the buttons are not pressed for 60 seconds, the displayed time is set as current time without step 3.

3 Press TIME SET UP switch.
The value of the time displayed stops flashing and lights, and the setting is completed.

EXAMPLE] If you would like to start the operation at AM 8:00

1 Press ON timer button.
ON timer display OFF blinks.

2 Press or button to adjust to AM 8:00.
Displayed time will be changed by 10 minutes by pressing the buttons.

3 Press ON timer button.
• On timer display OFF stops flashing and lights, and the setup is completed. (Press within 60 seconds)
• TIME/CHECK display lamp of the air conditioner lights. (The receiving part of indoor unit)
• At AM 8:00, TIME/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.

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.
The air conditioner starts to operation.
OFF timer can be set only in case the air conditioner is in operation.

2 Press OFF timer button.
OFF timer display OFF blinks.

3 Press or button to adjust to PM 9:00.
Displayed time will be changed by 10 minutes by pressing the buttons.

4 Press OFF timer button.
• OFF timer display OFF stops flashing and lights, and the setting is completed. (Press within 60 seconds)
• TIME/CHECK display lamp of the air conditioner lights. (The receiving part of indoor unit)
• At PM 9:00, TIME/CHECK display lamp turns off and the air conditioner will stop 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 OFF TIMER button to set again.

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.

EXAMPLE] AM (morning) 8:00 setting

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.
Press OFF timer button again.
Both ON TIMER and OFF TIMER are displayed. The direction of arrow mark changes depending on the status of operation.

CANCELLATION
• Whenever the CANCEL button is pressed, both ON and OFF timer display will be turned off and the PROGRAM timer mode will be cancelled. (Operation condition is kept as before the button is pressed.)
• Whenever the ON/OFF button is pressed, both ON and OFF timer display will be turned off and the PROGRAM timer mode will be cancelled. The air conditioner stops operating.

Changing the set time
Press OFF TIMER button or ON timer button to set again.

NOTICE
The same time cannot be set for OFF timer and ON timer.
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.

- The swing louver moves up and down, and the display moves too.

The louver position which the display shows is not synchronized with the actual position when the louver is swinging. But this is not a failure.

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.

- Auto swing display stops at the position and then the swing louver stops and be fixed.

Noticing

Press the button and auto swing display stops immediately, then the swing louver stops later, but this is not a failure. (Auto swing display and the actual louver movement of the air conditioner are not synchronized)

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.

CAUTION

Do not set the position of the swing louver downwards for a long time. Dew formation on the side panel may drop. (in case of FDE)

FOR COMFORTABLE USE

See page 12

CHECK INDICATION, FILTER SIGN

WHEN SHORT FLASHING LIGHT (lights for 0.5 seconds and blinks for 0.5 seconds) IS SHED FROM THE TIMER/CHECK INDICATOR LAMP (YELLOW)

There is something wrong with the air conditioner.

- Immediately after the timer/check indicator lamp flashed (lights for 0.5 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 monitor 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.

Press the ON/OFF button to stay the air conditioner on the stop mode.

Notice

For FDTW-KXE6, FDK-KXE6, -KXZE1 and FDFW-KXE6, address No. is not shown on display.

WHEN LONG FLASHING LIGHT (lights for 2 seconds and blinks for 1 second) IS SHED FROM THE TIMER/CHECK INDICATOR LAMP (YELLOW)

Clean the filter.

- 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 (yellow).
- 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-VF, -VG, -KXE6, -KXZE1)

Ceiling cassette - 4 way compact (600x600mm) (FDTC-VF, -KXE6)

Ceiling suspended (FDE-VG, -KXZE1)

Ceiling cassette - 2 way (FDTW-KXE6)

Floor standing - 2 way (FDFW-KXE6)
Wall mounted (FDK-KXE6)

Backup button

For FDTW-KXE6, FDK-KXE6 and FDFW-KXE6, check indicator lamp “check1” / “check2” shows error code. The number of blinking shows the error code number and check1/check2 corresponds to tens/ones place.

Display method
Example: For E39

<table>
<thead>
<tr>
<th>check1</th>
<th>ON</th>
<th>OFF</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>0.5s</td>
<td>0.5s</td>
</tr>
<tr>
<td>check2</td>
<td>0.5s</td>
<td>0.5s</td>
</tr>
</tbody>
</table>

- 56
- 71

NOTICE
For FDK-KXZE1 check indicator lamp “green lamp (check1)” / “yellow lamp (check2)” shows error code.

Display method
Example: For E39

<table>
<thead>
<tr>
<th>green lamp (check1)</th>
<th>ON</th>
<th>OFF</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>0.5s</td>
<td>0.5s</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>yellow lamp (check2)</th>
<th>ON</th>
<th>OFF</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>0.5s</td>
<td>0.5s</td>
</tr>
</tbody>
</table>

- 56
- 71

Wall mounted (FDK-KXZE1)

Backup button

Ceiling suspended (FDE-VG, KXE1)

Backup button

Ceiling cassette -4 way- (FDTC-VF, -KXE6)

Backup button

Wall mounted (FDK-KXE6)

Backup button

Floor standing -2 way- (FDFW-KXE6)

Backup button

Wall mounted (FDK-KXZE1)

Backup button

NOTICE
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.

- Press backup button and leave it untouched for two seconds. The operation starts.
- Press it again to stop the operation.

<table>
<thead>
<tr>
<th>SETTING</th>
<th>OPERATION MODE</th>
<th>FAN SPEED</th>
<th>TIMER</th>
<th>SET TEMP</th>
<th>AUTO SWING</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>AUTO</td>
<td></td>
<td>No setting</td>
<td>23°C</td>
<td>STOP (HORIZONTAL)</td>
</tr>
</tbody>
</table>
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 The stepladder used for removing and attaching the air filter must be fixed firmly. Otherwise, it may lead to injury due to overturn or fall.

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

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

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

Ceiling cassette −4 way− (FDT-VG, -KXZE1)

• How to handle inlet grille/filter

Removal

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.

2. While opening the tab parts (③) outward, lift them to detach the tab parts from the claws on the grill. Insert your finger from the side of the tab, then the tab can be detached easily.

3. Slide the filter (⑤), then remove it from the grill.

How to mount the filter

1. Correctly align the front and back sides of the filter in the correct orientation. Then, hook it to the hooks. (Insert in the way indicated with arrow mark ④)

2. Ensure to insert the holders of the grille into the filter’s holes until clicking sounds are heard.

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.

Caution Mount the filter to the grille securely.

Otherwise, it may lead to decreased efficiency due to leakage of flow from the gap.

Caution Mount the grille securely.

Otherwise, it may fall.

Caution When the stopper is deformed or damaged, repair or replace without delay.

Otherwise, the grille may fall.

Mounting

Direction for closing

Holes for hooks

Ceiling cassette −2 way− (FDTW-KXE6)

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. 

   © Disengage the pin B side.

4. Press the air filter and turn the stopper to remove the air filter.

   © Push the pin A side upward.

   © Disengage the pin A side.

CAUTION

Install the air filter in the correct order.

Stopper

Two locations on both sides

Holder

Filter frame

Tabs

Claws

Hooks

Mounting

Holes for hooks

Direction for closing

Ceiling cassette –4 way− (FDT-VF, -KXE6)

• How to remove the grille

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.

   © Disengage the pin B side.

How to handle inlet grille/filter

Removal

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.

2. Push holders (arrow mark ②) and filter frame (arrow mark ③’), and remove the filter from the holders. Then, slide the filter in the indicated direction (④) to remove it from the grille.

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 ④)

2. Ensure to insert the holders of the grille into the filter’s holes until clicking sounds are heard.

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.

Caution Mount the filter to the grille securely.

Otherwise, it may lead to decreased efficiency due to leakage of flow from the gap.

Caution Mount the grille securely.

Otherwise, it may fall.

Caution When the stopper is deformed or damaged, repair or replace without delay.

Otherwise, the grille may fall.
HOW TO MAINTAIN

Ceiling cassette -4 way Compact (600x600mm) – (FDT-C-VF, -KXE6)

1. Slide the lever of the inlet grille 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 put in place, insert the filter into the hooks on the inlet grille, and be sure to return the stopper to its original position.
5. When putting 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.

Ceiling suspended (FDE-VG, -KXE1)

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.

Ceiling cassette -1 way- (FDTS-KXE6)

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 tabs at the left and right, and pull towards the front.

Ceiling cassette -1 way compact- (FDTQ-KXE6)

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 tabs at the left and right, and pull towards the front.

Wall mounted (FDK-KXE6)

1. Pull up the suction grille forward.
   Hold the concave sections at both the right and left side with your hands and pull the suction grille forward. It stops while being open at about 60°.
2. Lightly hold the handle of the air filter, slightly lift it upward, and then pull it out forward.

Wall mounted (FDK-KXZE1)

1. Place fingers at the recesses on both sides of the panel and pull up the panel forward so that it will be open by about 60 - 70 degrees.
2. Lightly hold the knobs both sides and lift a little to remove the panel forward.

Floor standing -2way- (FDFW-KXE6)

<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 inlet panel>

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 insert securely.
2. Close the air inlet panel.

Floor standing (with casing) (FDL-KXE6)

Remove the front panel and pull the air filter out from the bottom of the unit.

Floor standing (without casing) (FDFU-KXE6)

Pull the air filter out from the bottom of the unit.

Floor Standing (FDF-VD)

Please take out the air filter by pulling carefully the both sides of the inlet grille.
How to clean

1. Wash away for cleaning. If it is not so dirty, tap it or use cleaner.
   If it is very dirty, dissolve some neutral detergent in lukewarm water (approximately 30°C), rinse the filter with it and wash the detergent away completely.
2. After drying the filter, attach it to the body of the air conditioner.
3. Reset the filter sign using the remote controller.

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 trouble.
• Do not wash the filter using hot water. Otherwise, the filter may be damaged.
• Do not pull the filter with excessive force. Otherwise, the filter may be damaged.

### MAINTENANCE OF THE UNIT

- **Clean the unit by wiping with a piece of soft and dry cloth.** If the unit is dirty, wipe it with a piece of cloth wet with neutral detergent dissolved in lukewarm water and wipe it off with clean water.
- **Make sure to turn off the power supply.**
  - The air conditioner consumes several tens of watts electricity even if it is stopped.
  - Clean the air filter and mount it.
  - Clean the indoor/outdoor units.

### AT THE END OF THE PERIOD OF USE

(after a long period of use)

- Make sure to turn off the power supply.
- The air conditioner consumes several tens of watts electricity even if it is stopped.
- **Clean the air filter and mount it.**
- **Clean the indoor/outdoor units.**

### AT THE BEGINNING OF THE PERIOD OF USE

(after a long unused period)

- Make sure that there is no object blocking the air flow around the inlet and outlet grilles of the indoor/outdoor unit.
- **Inspect the air filter.** If it is dirty, clean and mount it.
- **Turn on the power supply button for 6 hours before starting the operation.**

### TROUBLESHOOTING

#### HOW TO USE THE UNIT

Check the following items before requiring service.

**THE UNIT DOES NOT WORK AT ALL**

- **Is the power supply switch turned off?**
- **Is there a blackout or is the fuse blown?**
- **Is the leakage breaker activated?**

#### POOR COOLING OR HEATING

- **Is the air filter clogged?**
- **Is the swing louver (during heating)?**
- **Is the leakage breaker activated?**
- **If there is any obstacle blocking the air inlet and outlet grill?**

#### NO AIR FLOW AT HEATING

- **Is the unit in the heating preparation mode?**
- **Are there any unexpected heat sources in the room?**
- **Are there too many people in the room?**

#### AT THE END OF THE PERIOD OF USE

(after a long period of use)

- **Clean the air filter and mount it.**

#### AT THE BEGINNING OF THE PERIOD OF USE

(after a long unused period)

- **Check the air flow.**
- **Check the air temperature.**

### POOR COOLING

- **Is there any unexpected heat sources in the room?**

### NO AIR FLOW AT HEATING

**ATTENTION**

• **If the fuse and breaker blow frequently.**
• **If water drips at cooling/dehumidifying operation.**
• **If the operation or operation noise is abnormal.**
• **If the check indicator light flashes.**

The phenomena mentioned below is not malfunction.

The air conditioning system sounds as if water is dripping from it. Sounds of rustling or gurgling may be heard when the operation is started, when the compressor is activated/deactivated during operation, or when the operation is stopped. Those are the sounds of the refrigerant flowing through the system.

**Sounds of rustling or gurgling may be heard from a stopped indoor unit.**

The supply air from the indoor unit smells bad. The supply air from the indoor unit may smell bad the smell of cigarettes, cosmetics and/or furniture has saturated the air conditioning system.

White vapor is generated from the indoor unit during operation. White vapor may be generated during operation if the system is used in environment where oils and fats are frequently used, such as in restaurants. In this case, consult the dealer and clean the heat exchanger.

The operation switched to fan operation during cooling operation. The operation may switch to fan operation automatically in order to avoid frost being built up on the surface of the heat exchanger. The operation will soon return to cooling operation.

The indoor fan does not stop even when the operation is stopped in heating mode. The indoor unit fan may continue operating for 40 seconds in order to remove remaining heat in the indoor unit.

**ATTENTION**

Do not turn off the power supply until the fan stops.

The air conditioning system cannot start operating again immediately after stopping. During the first 3 minutes after stopping operation, it is not possible to perform cooling, dehumidifying or heating operation even if the ON/OFF button is pressed to indicate "operation." This is because a circuit for protecting the compressor is activated during this period.

**No air comes out during dehumidifying operation.**

**The air volume cannot be changed.**

**ATTENTION**

During dehumidifying operation, the fan speed is automatically controlled in low speed/stop cycle in order to avoid both drastic temperature drop and humidity rise.

The swing louver moves without any operation. The swing louver automatically swings twice when the power supply switch is turned on. This is not a trouble. The louver also moves automatically to the horizontal position when "PREPARATION OF HEATING" is displayed.

The outdoor unit discharges water or steam during heating operation. Water or steam is discharge during defrosting operation which removes frost built up on the surface of the heat exchanger in the outdoor unit in heating mode.

The outdoor unit fan is not running even when the system is in operation. The fan speed is automatically controlled according to the ambient temperature. It may be stopped in high ambient temperature in case of heating, and in low ambient temperature in case of cooling. Also, the fan is stopped during defrosting operation.

The operation switched to fan operation during cooling operation (in case of FDFW type). In case the relative humidity is 73% or higher, the operation may alternate between fan operation and cooling operation even though the thermostat has not been activated. The objective of this operation mode is to prevent condensate dew formation and dew dropping from indoor unit in air supply port.

The operation mode cannot be selected (in case of the heat recovery system KXR). The operation mode is set to the main and sub indoor unit during the heat recovery system KXR, operation mode of the sub unit cannot be selected (in this case, the system conforms to operation mode of the main unit).

The air flow becomes weak if the operation mode is changed during operation (in case of the heat recovery system KXR).

When you switch the operation mode from Cool to Heat or from Heat to Cool during operation, the airflow becomes weak for 3 minutes.
**Troubleshooting**

The phenomena mentioned below is not malfunction.

- **Slapping sounds are heard.** These sounds are generated when plastic components are expanded or shrunk by the heat and rubbed with each other.
- **Hissing sounds are heard when the operation is stopped or during defrost operation.** These sounds are generated when the refrigerant valve inside the air conditioning system is actuated.

- **The air conditioner starts operation automatically as soon as the power supply is turned on.** In case the automatic restart function is enabled, and when the power supply recovers, the system restarts the operation automatically as same condition before power cut is set. See below setting.

- **The setting temperature cannot be changed (the setting temperature display flashes).** If changing the set temperature is prohibited on the remote control, it is not possible to change the temperature setting even if or ▲ is pressed. See right

- **In case of wireless remote control, the unit does not operate with the inspection display light on the indoor unit flashing even though any button on the remote control is pressed.** In case the system is controlled by the other centralized remote control and it fords operating the system from the remote control control, it is not possible to operate by the remote control.

- **Even if the wired remote control is operated, “central controlling” or “center” displayed?** Is not “central controlling” or “center” displayed? If controlled with a separately purchased center console etc., the unit cannot be operated by the remote control.

**Preparation of Heating**

- **Heat pump type**
  - Heat pump type heating applies the mechanism that draws heat from the outside air to warm up the room by means of the refrigerant.

- **Defrost operation**
  - During heating with a heat pump type air conditioner, frost will be formed on the outdoor unit if the temperature outside the room drops. If left alone, the heating efficiency decreases. In order to deal with this, the operation is automatically switched to defrost operation to remove the frost. During the period, the air flow of indoor/outdoor unit is stopped and “heating defrost” is displayed.

- **Air temperature and heating capacity**
  - The heating efficiency of heat pump type air conditioner decreases as the outside temperature becomes lower. If the capacity of air conditioner for heating is not sufficient, please use other heating device.

- **Time required until the room temperature increases**
  - A heat type air conditioner warms up to warm the entire room, so it takes a while to rise up the room temperature. It is recommended to start operation earlier on a very cold day.

- **When room temperature adjusting device operates during heating**
  - If room temperature rises and the room temperature adjusting device is activated, the air flow becomes automatically low. When the room temperature drops, it switched back automatically to the normal operation.

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**Auto Restart**

- **An auto restart function, which is disabled at the factory setting, is applicable to the remote control. Consult your dealer.**

  - **Note**
    - A power failure occurs or the power supply is turned off, the function allows the system to automatically resume operation with the remote control setting made set before the power failure when the power supply recovers. If the system is stopped before power failure it remained stopped after the power failure.
    - Note that in the following cases it is needed to set again with the remote control.
      - The remote control is placed under high humidity. If the air conditioning system is not used, water leakage, electric shock and/or fire may occur. Note that an installation fee will be charged for relocation and installation.

**Installation, relocation, and inspection maintenance**

- **See right**

**Operation range**

- **See right**

**NOTICE**

- The button operations can be disabled. If the button is disabled, “FUNCTION button” is displayed indicating that the button is disabled, and the original display returns. Consult your dealer for “FUNCTION button” setting.

**Electrical work**

- **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?
      - In the case of exposed wiring, is the wiring fixed with the attached screws?
      - In the case of exposed wiring, is the wiring fixed with the attached screws?
      - Is the remote control mounted at a height where children cannot reach?

**Relocation**

- **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.

**Inspection maintenance**

- **Normally the efficiency of the air conditioning system will become lower after a while, because dust accumulates inside the system. This occurs gradually in around 3 years of use, depending on the condition of use and surrounding environment. It is thus necessary to conduct inspection maintenance in addition to regular maintenance.**
  - We recommend you to consult the dealer from whom you purchased the system and make a contract for periodic inspection. (charged)

**Operation range**

- **See right**

**Operation range**

- **See right**

**NOTICE**

- The operation range may differ depending on models. Please check the catalog.
This table indicates the details of regular inspection items and their intervals (inspection intervals) at the time of replacement under a normal use condition. If the equipment falls into a certain category specified by the laws and regulations of each country, conduct the maintenance and inspection according to the specified rules too. As to the preventive maintenance, the regular inspection interval is indicated as the “maintenance interval.” As to the cleaning and adjustment, the timing is set to prevent the deterioration of parts and the degradation of performance. As to the regular parts replacement and repair after the inspection, the timing is set by estimating the operation time or use time, when the wear-out failure period is reached.

### Part Name and Regular Inspection

<table>
<thead>
<tr>
<th>Part Name</th>
<th>Details of Inspection</th>
<th>Inspection Method</th>
<th>Criteria &lt;Standard&gt;</th>
<th>Details of Maintenance</th>
<th>Inspection Interval</th>
<th>Preventive Maintenance*</th>
<th>Elapsed Years</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Structural component</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Decorative panel (design panel)</td>
<td>- Check of dirt and scratch</td>
<td>Visual inspection</td>
<td>- There should be no extreme dirt, scratches, or deformation</td>
<td>Cleaning with neutral detergent, panthenol by repair coating, or</td>
<td></td>
<td></td>
<td></td>
<td>Cleaning object item</td>
</tr>
<tr>
<td>Intake outlet grille</td>
<td>- Visual check of dirt and scratch</td>
<td>Visual inspection</td>
<td>- There should be no extreme dirt, scratches, or deformation</td>
<td>Repair or replace if deformation or damaged</td>
<td>Every year</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>- Outlet grill louver operation check</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>5 years</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Frame, bottom plate, etc.</td>
<td>- Check of rust and peeling off of the heat insulation material</td>
<td>Visual inspection</td>
<td>- There should be no extreme rust or damage of heat insulation material</td>
<td>Repair or replace if the heat insulation materials is peeled off, repair and stick it</td>
<td></td>
<td></td>
<td></td>
<td>Cleaning object item</td>
</tr>
<tr>
<td>- Check of peeling off and peeling of paint coating</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vibration-proof rubber</td>
<td>- Check of deterioration and hardening of rubber coating</td>
<td>Visual and audible inspection</td>
<td>- Vibration insulation function should not be impaired</td>
<td>Replace it when deteriorated or hardened</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Fiber</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>- Visual check of dirt and breakage</td>
<td>Visual inspection</td>
<td>- Fiber material should be seen through</td>
<td>Clean if it is dirty</td>
<td>Every week</td>
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<td></td>
<td></td>
<td></td>
<td>- There should be no breakage or deformation</td>
<td>Replace it if it is broken</td>
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</tr>
<tr>
<td><strong>Fan</strong></td>
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</tr>
<tr>
<td>Fan casing</td>
<td>- Visual check of vibration and balance</td>
<td>Visual inspection</td>
<td>- Should not be in an extremely vibrating condition</td>
<td>Replace in case of deviation and extreme unbalance</td>
<td></td>
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<tr>
<td>- Check of dual admission and appearance</td>
<td></td>
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<tr>
<td><strong>Fan motor</strong></td>
<td>- Sound audibility check</td>
<td>Audible inspection</td>
<td>- The resistance value should be 1MΩ or more</td>
<td>Wash the air inflow side in case of clogging</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>- Insulation resistance measurement</td>
<td>500 V mega</td>
<td>- When a bearing sound is loud, replace the bearing</td>
<td></td>
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<tr>
<td><strong>Reactor</strong></td>
<td>- Regular operation is required</td>
<td>Audible inspection</td>
<td>- There should be no abnormal sound generation</td>
<td>Replace parts regularly</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td><strong>Automatic louver motor</strong></td>
<td>- Insulation resistance, abnormal sound generation</td>
<td>500 V mega, audible inspection</td>
<td>- The resistance value should be 1MΩ or more, there should be no abnormal sound</td>
<td>Replace it if the resistance value is 1 MΩ or less</td>
<td></td>
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</tr>
<tr>
<td><strong>Drain pan</strong></td>
<td>- Check of the clogging of foreign matters and the drain water</td>
<td>Visual inspection</td>
<td>- There should be no drainage clogging</td>
<td>Cleaning of drain pan, inclination check</td>
<td></td>
<td></td>
<td></td>
<td>Cleaning object item</td>
</tr>
<tr>
<td>- Check of peeling off and peeling of paint coating</td>
<td></td>
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<tr>
<td><strong>Drain pump</strong></td>
<td>- Check the drainage condition</td>
<td>Visual inspection</td>
<td>- There should be no drainage clogging or dirt generation and hole opening</td>
<td>Repair coating or replace the drain pan depending on the problem level</td>
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<tr>
<td>- Check of drainage and of the water supply and drainage outlet</td>
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<tr>
<td><strong>Drainage preventing heater</strong></td>
<td>- Insulation resistance, appearance check</td>
<td>500 V mega, visual inspection</td>
<td>- The resistance value should be 1 MΩ or more, there should be no abnormal sound</td>
<td>Replace it if the resistance value is 1 MΩ or less</td>
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<tr>
<td><strong>Heat exchanger</strong></td>
<td>- Check the clogging and damage due to foreign objects</td>
<td>Gas leakage</td>
<td>- There should be no leakage detection</td>
<td>Cleaning of drain pan, inclination check</td>
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<tr>
<td>- Gas leakage</td>
<td></td>
<td></td>
<td>- There should be no drainage clogging</td>
<td>Repair coating</td>
<td></td>
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<tr>
<td><strong>Piping in the unit</strong></td>
<td>- Symmetrical vibration, contact, and corrosion of the piping in the unit</td>
<td>Visual inspection</td>
<td>- There should be no abnormal symmetrical vibration, sound, or corrosion</td>
<td>Replace it if the resistance value is 1 MΩ or less, replace the parts</td>
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<tr>
<td>- Symmetrical vibration and contact of capillary tube</td>
<td>Visual inspection</td>
<td>- There should be no abnormal symmetrical vibration, sound, or contact</td>
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<tr>
<td><strong>Electronic expansion valve</strong></td>
<td>- Operation check</td>
<td>Tactile inspection</td>
<td>- Circuit insulation resistance check</td>
<td>Replace it if the resistance value is 1 MΩ or less, replace the parts</td>
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<tr>
<td><strong>Electronic expansion valve, four way switching valve, etc.</strong></td>
<td>- Operation output by power on/off (pressure check)</td>
<td>Audible and tactile inspection</td>
<td>- Circulation of refrigerant should be felt</td>
<td>Replace it when leaking occurs</td>
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</tr>
<tr>
<td>Operation and insulation performance of electronic expansion valve, four way switching valve, etc.</td>
<td>500 V mega, visual and audible inspection</td>
<td>- There should be no abnormal sound or corrosion</td>
<td>Wash the air inflow side in case of clogging</td>
<td></td>
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<tr>
<td><strong>Refrigerant</strong></td>
<td>- Operation check</td>
<td>Tester</td>
<td>- There should be no abnormal sound or corrosion</td>
<td>Wash the air inflow side in case of clogging</td>
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<tr>
<td>- Output voltage measurement</td>
<td>Tester</td>
<td>- There should be no leakage detection</td>
<td>Wash the air inflow side in case of clogging</td>
<td></td>
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</tr>
<tr>
<td>Refrigerant valve (including inverter)</td>
<td>- Circuit insulation resistance check</td>
<td>500 V mega, visual inspection</td>
<td>- There should be no leakage detection</td>
<td>Wash the air inflow side in case of clogging</td>
<td></td>
<td></td>
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<tr>
<td>- Terminal part, connector boxness check</td>
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<tr>
<td><strong>Switching power source transformer</strong></td>
<td>- Output voltage measurement</td>
<td>Tester</td>
<td>- Output voltage should be within a specified value</td>
<td>Replace it if the output voltage is abnormal</td>
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</tr>
<tr>
<td><strong>Temperature sensor thermometer</strong></td>
<td>- Open, short, circuit, earth, appearance check</td>
<td>Tester</td>
<td>- Output voltage should be within a specified value</td>
<td>Replace it if the output voltage is abnormal</td>
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<tr>
<td><strong>Remote control switch</strong></td>
<td>- Check the controllability by the operation</td>
<td>Visual inspection</td>
<td>- The LCD should display as operated</td>
<td>Replace it in case of failure of the following capability of control and the display</td>
<td></td>
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</tr>
</tbody>
</table>

Note 1) Random fault is an unexpected failure which occurs before the wear is progressed within the service life of the parts and equipment. It is difficult to establish a technological 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 operation time as 10 hours/day and 2000 hours/year in normal operating condition. Therefore, conduct the maintenance in arbitrary cycles according to the use condition.

Note 3) The inspection timing of filter is basically every week. However, the contamination state varies depending on the type of filter and the use condition. Therefore, conduct the inspection in arbitrary cycles according to the use condition.
### Explanation of Symbols
- **random failure**
- **wear-out failure**

### Remarks
- **Cleaning object item**
- **Consumable components**

---

### Mainly Outdoor parts and built-in components

*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.

#### Part Name | Details of Inspection | Inspection Method | Criteria «Standard» | Details of Maintenance | Inspection Interval (Used Hours/Duration) | Maintenance Interval (Elapsed Years) | Elapsed Years | Remarks
--- | --- | --- | --- | --- | --- | --- | --- | ---
Guard, etc. | Check of peeling off and floating of paint coating | Visual inspection | There should be no extreme rust generation, cracks, fracture, etc. | Paintwork by repair coating | 8 years | 8 years | 8 years | **Cleaning object item**
| Check of fractures and cracks of plastic parts |  |  |  |  |  |  |  |  
| Check of peeling off and floating of paint coating |  |  |  |  |  |  |  |  
| Frame, bottom plate, etc. | Check of rust and peeling off of the heat insulation material | Visual inspection | There should be no extreme rust or damage of heat insulation material | Paintwork by repair coating | 8 years | 8 years | 8 years | **Cleaning object item**
| Check of peeling off and floating of paint coating |  |  |  |  |  |  |  |  
| Vibration-proof rubber | Check of deterioration and hardening of rubber | Visual and audible inspection | Vibration insulation function should not be impaired | Replace it if deteriorated or hardened | 10 years | 10 years | 10 years |  
| Fan, Fan casing | Visual check of vibration and balance | Visual inspection | Should not be in an extremely vibrating condition | Replace it in case of vibration and extreme unbalance | 10 years | 10 years | 10 years |  
| Check of dust adhesion and appearance | Visual inspection | Should there be no extreme rust or deformation | Replace it if there is any damage, such as cracks and fractures |  |  |  |  |  
| Fan motor | Sound audibility check | Audible inspection | There should be no abnormal sound generation | When a bearing sound is loud, replace the bearing | 30,000 Hr | 20,000 Hr | 20,000 Hr |  
| - Insulation resistance measurement | 500 V mega | The resistance value should be 1 MΩ or more | Replace the motor |  |  |  |  |  
| - Cleaning object item |  |  |  |  |  |  |  |  
| Bearing | Regular lubrication is required | Audible inspection | There should be no abnormal sound generation | Replace parts regularly | 15,000 Hr | 15,000 Hr | 15,000 Hr |  
| Compressor | Sound audibility and vibration at the start-up, operation, and stop | Visual, audible, and tactile inspection | There should be no abnormal sound or vibration | Replace it if abnormal | 20,000 Hr | 20,000 Hr | 20,000 Hr |  
| - Insulation resistance measurement (after energizing the manufacturer designated time) | 500 V mega | The resistance value should be 1 MΩ or more | Replace it if the resistance value is 1 MΩ or less |  |  |  |  |  
| - Lossness of terminals and contact of wiring |  | There should be no looseness or contact | Replace it if the resistance value is 1 MΩ or less |  |  |  |  |  
| Air heat exchanger | Check the clogging and damage due to foreign objects Gas leakage | Visual inspection, Gas detector | There should be no clogging or damage No leakage should be detected | Wash the air inflow side in case of clogging | 5 years | 5 years | 5 years |  
| | Driver, visual inspection | There should be no looseness or contact | Replace it if leakage is detected |  |  |  |  |  
| Piping in the unit | Sympathetic vibration, contact, and corrosion of the piping in the unit | Visual inspection, Gas detector | There should be no abnormal sympathetic vibration sound, or contact | Replace it if the gas leakage is detected | 20,000 Hr | 20,000 Hr | 20,000 Hr |  
| - Sympathetic vibration and contact of capillary tube | Visual inspection | There should be no abnormal sympathetic vibration sound, or contact | Replace it if the gas leakage is detected |  |  |  |  |  
| Electronic expansion valve | Operation check Operation sound by power on/off (pressure check) | Tactile inspection | There should be no abnormal sympathetic vibration sound, or contact | Replace it if the gas leakage is detected | 20,000 Hr | 20,000 Hr | 20,000 Hr |  
| - Insulation resistance measurement | 500 V mega | The resistance value should be 1 MΩ or more | Replace it if the resistance value is 1 MΩ or less |  |  |  |  |  
| - Operation and insulation performances of electromagnetic valve, four way switching valve, etc. | Visual inspection | There should be no abnormal sound or corrosion | Replace it if the resistance value is 1 MΩ or less |  |  |  |  |  
| - Operation and insulation performances of electromagnetic valve, four way switching valve, etc. | Visual inspection | There should be no abnormal sympathetic vibration sound, or contact | Replace it if the resistance value is 1 MΩ or less |  |  |  |  |  
| - Container, etc. | Insulation resistance measurement (after energizing the manufacturer designated time) | 500 V mega | The resistance value should be 1 MΩ or more | Replace it if the resistance value is 1 MΩ or less | 20,000 Hr | 20,000 Hr | 20,000 Hr |  
| - Corrosion of accumulator, of separator, etc. | Visual inspection | There should be no abnormal corrosion | Replace coating in case of corrosion generation | 20,000 Hr | 20,000 Hr | 20,000 Hr |  
| Pressure loss device (security parts) | Operation/maintenance, gas/steam leakage, insulation/resistance | Operation/maintenance, gas/steam leakage, insulation/resistance | Operate it in a safety valve Observe the rules specified by the laws and regulations | Replace it if it does not operate within the permissible range of settling values | 25,000 Hr | 25,000 Hr | 25,000 Hr |  
| - Appearance check (wearing of fusible alloy) | Visual inspection | The fusible alloy should be in a normal position | Replace it if it does not operate within the permissible range of settling values | 15,000 Hr | 15,000 Hr | 15,000 Hr |  

**Note 1)** Random fault is an unexpected failure which occurs before the wear is progressed, within the service life of the parts and equipment. It is difficult to establish a technological 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 start/stop. This may vary according to the operating condition. Please check the calculation basis of the elapsed year when making a maintenance contract.

**Note 3)** Illustrates the estimated timing when the wear-out failure starts and how the failure rate increases as the time passes.
### Explanation of symbols
- ✗: Conduct the cleaning and adjustment according to the inspection result
- ▲: In case of abnormality after inspection, replace or repair the corresponding part
- ●: Conduct the periodic replacement (consumable components)

### Random failure
- In case of abnormality after inspection, replace or repair the corresponding part.

### Wear-out failure
- Conduct the periodic replacement (consumable components).

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#### Electric and electronic parts

<table>
<thead>
<tr>
<th>Part Name</th>
<th>Details of Inspection</th>
<th>Inspection Method</th>
<th>Criteria &lt;Standard&gt;</th>
<th>Details of Maintenance</th>
<th>Inspection Interval</th>
<th>Maintenance Interval (Used Hours/Duration)</th>
<th>Elapsed Years</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Crankcase heater</td>
<td>- Conduction check</td>
<td>Water 500 V mega visual inspection</td>
<td>- It should be in a conducting state</td>
<td>Replace it if it is not in a conducting state</td>
<td>8 years</td>
<td>20,000 h</td>
<td>0</td>
<td>Consumable components</td>
</tr>
<tr>
<td>Anti-freezing heater</td>
<td>- Insulation resistance, appearance check</td>
<td>Water 500 V mega visual inspection</td>
<td>- The resistance value should be 1MΩ or more</td>
<td>Replace it if the resistance value is 1MΩ or less</td>
<td>8 years</td>
<td>25,000 h</td>
<td>0</td>
<td>Consumable components</td>
</tr>
<tr>
<td>Electric component box (including inverter)</td>
<td>- Circuit insulation check</td>
<td>Water 500 V mega visual inspection</td>
<td>- The resistance value should be 1MΩ or more</td>
<td>Replace it if the resistance value is 1MΩ or less</td>
<td>8 years</td>
<td>20,000 h</td>
<td>0</td>
<td>Consumable components</td>
</tr>
<tr>
<td>Electrolytic capacitor</td>
<td>- Terminal part, connector looseness check</td>
<td>Water 500 V mega</td>
<td>- There should be no looseness in the connecting part</td>
<td>Replace it if it is not in a conducting state</td>
<td>8 years</td>
<td>25,000 h</td>
<td>0</td>
<td>Consumable components</td>
</tr>
<tr>
<td>Smoothing capacitor</td>
<td>- Measurement/electric capacitance, insulation resistance</td>
<td>Water 500 V mega Tester</td>
<td>- Should be of a specified volume or more</td>
<td>Replace parts regularly</td>
<td>8 years</td>
<td>25,000 h</td>
<td>0</td>
<td>Consumable components</td>
</tr>
<tr>
<td>Terminal block</td>
<td>- Visual check of dirt adhesion to the board, etc.</td>
<td>Water 500 V mega visual inspection</td>
<td>- There should be no deposited foreign matter</td>
<td>Replace it if it is not in a conducting state</td>
<td>8 years</td>
<td>25,000 h</td>
<td>0</td>
<td>Consumable components</td>
</tr>
<tr>
<td>Electric component (including inverter)</td>
<td>- Visual inspection</td>
<td>Water 500 V mega visual inspection</td>
<td>- There should be no abnormal display</td>
<td>Replace it if it is not in a conducting state</td>
<td>8 years</td>
<td>25,000 h</td>
<td>0</td>
<td>Consumable components</td>
</tr>
<tr>
<td>Pressure sensor</td>
<td>- Open short, circuit, earth, appearance check</td>
<td>Water, visual inspection</td>
<td>- Should be of a specified resistance value</td>
<td>Replace it if there is a case of disconnection and short circuit</td>
<td>8 years</td>
<td>25,000 h</td>
<td>0</td>
<td>Consumable components</td>
</tr>
<tr>
<td>Switch, etc. (including FFB, ELB)</td>
<td>- Operation, appearance check</td>
<td>Visual inspection</td>
<td>- There should be no deformation</td>
<td>Replace it if it is not in a conducting state</td>
<td>8 years</td>
<td>25,000 h</td>
<td>0</td>
<td>Consumable components</td>
</tr>
<tr>
<td>Switching power source transformer</td>
<td>- Output voltage measurement</td>
<td>Water</td>
<td>- Output voltage should be within a specified value</td>
<td>Replace it if there is voltage abnormality</td>
<td>8 years</td>
<td>25,000 h</td>
<td>0</td>
<td>Consumable components</td>
</tr>
<tr>
<td>Cooling fan</td>
<td>- Insulation resistance, abnormal sound generation</td>
<td>500 V mega, audible inspection</td>
<td>- The resistance value should be 1MΩ or more</td>
<td>Replace it if the resistance value is 1MΩ or less</td>
<td>8 years</td>
<td>20,000 h</td>
<td>0</td>
<td>Consumable components</td>
</tr>
<tr>
<td>Fuse</td>
<td>- Appearance check</td>
<td>Visual inspection</td>
<td>- There should be no deformation or discoloration</td>
<td>Replace it if it is not in a conducting state</td>
<td>8 years</td>
<td>25,000 h</td>
<td>0</td>
<td>Consumable components</td>
</tr>
</tbody>
</table>

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**Note 1)** Random fault is an unexpected failure which occurs before the wear-out failure. It is difficult to establish a technological 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. This may vary according to the operating condition. Please check the calculation basis of the elapsed year when making a maintenance contract.

**Note 3)** Illustrates the estimated timing when the wear-out failure starts and how the failure rate increases as the time passes.
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