SAFETY PRECAUTIONS

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

The precautions provided here are classified into "DANGER" and "CAUTION". The "DANGER" sections describe potentially hazardous situations that may lead to serious outcomes such as death and serious injuries if the product is mishandled. Note, however, that depending on the situation, the items listed in the "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

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.

\[\text{\textcopyright marks mean prohibited items. The specified prohibited item is described in the circle or in the vicinage.}\]

\[\text{\textbold{\textbullet} marks mean compulsory action or instruction. The specified prohibited item is described in the circle. The left mark means “Earth is needed”.}\]

SAFETY PRECAUTIONS

DANGER

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\[\text{\textbold{\textbullet} marks mean compulsory action or instruction. The specified prohibited item is described in the circle. The left mark means “Earth is needed”.}\]
The preventive measures that the density of leaked refrigerant does not exceed the limit is necessary in case of installing the unit in a small room.

The leakage of refrigerant may cause oxygen deficiency accident. Consult your dealer for the measures.

**CAUTION**

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

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

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

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

**OPERATION PRECAUTIONS**

**DANGER**

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

Children shall not play with the appliance.

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

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

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

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

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

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

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

**CAUTION**

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

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

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

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

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

Do not wash the unit with water, nor place a vase with water on the unit.
It may cause electric shock or ignition.
Do not install the unit where the 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 inlet/outlet grilles or other panel removed. Otherwise, it may lead to injuries.

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

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

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

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

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

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

**CAUTION**

Never perform any modification. Contact your dealer for repairing. Improper repairing may lead to water leakage, electric shock or fire. Normally the 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. When repairing refrigerant leakage, determine the service with the service staff that the repair has been finished without fault.

If it is required to relocation and reinstall the unit, consult your dealer or a specialist. Improper installation of air conditioning unit may cause water leakage, electric shock and/or fire.

### PRECAUTIONS FOR WASTE DISPOSAL

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

### HOW TO USE < WIRED REMOTE CONTROL >

**NAMES AND FUNCTIONS OF REMOTE CONTROL BUTTONS (WIRED REMOTE CONTROL)**

- **Ventilation display**
  - Displayed during ventilation operation
  - See page 12
- **Weekly timer display**
  - Displays the settings of the weekly timer.
- **Operation setting display area**
  - Displays setting temperature, airflow volume, operation mode and operation message.
- **Operation/check indicator light**
  - During operation: Lit in green
  - In case of error: Flashing in red
- **Operation/stop button**
  - This button is used to operate and stop the air conditioning system.
    - Press the button once to operate the system and press it twice to stop the system.
- **MODE button**
  - This button is used to change the operation mode.
- **FAN SPEED button**
  - This button is used to set the airflow volume.
- **VENT button**
  - This button is used to operate external ventilator.
    - See page 12
- **LOUVER button**
  - This button is used to operate/stop the swing louver.
    - See page 11
- **E.S.P. button**
  - This button is only used by service engineers for installation purposes.
- **AIR CON No. button**
  - Displays the indoor unit number connected to this remote control.
  - This button is used for indoor unit address setting.
- **CHECK button**
  - This button is only used by service engineers for installation purposes.
- **TEST button**
  - This button is used during test operation.
- **SET button**
  - If you press this button while making settings, you can go back to the previous operation.
    - See page 5 to 12
  - This button is also used to reset the “FILTER CLEANING” display.
    - (Press it after cleaning the air filter)
- **RESET button**
  - If case of FDU-F
  - The setting temperature of the remote controller indicates the outdoor temperature while operating thermostat ON/OFF.

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.

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If it is required to relocation and reinstall the unit, consult your dealer or a specialist. Improper installation of air conditioning unit may cause water leakage, electric shock and/or fire.

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**HOW TO OPERATE**

In order to protect both indoor/outdoor air conditioners, keep the power supply on for an hour before initial operation. (The crank case heater is energized in order to heat the compressor.) 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.)

**ATTENTION**

1. The unit starts operating at the setting temperature. When you start to operate the unit for the first time after turning the power supply on, the default settings are listed below. You can change the setting temperature depending on difference between the setting temperature and room temperature automatically changed.

   - **DRY**..........................21 to 24°C
   - **COOL**.......................26 to 28°C

2. Effective stop position
   - For heating operation: ................................... downwards
   - For automatic operation: ............................... middle
3. Fan speed
   - At 4-speed ............................................. [EXAMPLE] Sunday : 1 o'clock in the afternoon
   - At 3-speed ............................................. If you select a combination of modes that cannot be set together (invalid operation) is displayed for 3 seconds and then the mode changes to timer mode.
   - At 2-speed ............................................. If you press the **OFF** button, the timer mode ends and the setting returns to the original one.
   - At 1-speed ............................................. Upon activation

**STOP**

1. **GUIDELINE FOR ROOM TEMPERATURE SETTING**

   - COOL .......................... 20 to 28°C
   - DRY .......................... 21 to 24°C
   - HEAT .......................... 22 to 24°C
   - FAN .......................... Setting unnecessary

2. **THE SELECTION OF TIMER MODE**

   - **OFF** timer
   - **ON** timer
   - **Sleep** timer
   - **Weekly timer**

**NOTICE**

- There may be a case that **OFF** is displayed when any button is pressed in the above list, but it is not a malfunction. In that case, the operation is prohibited.
- When you want to operate the unit for the first time after turning the power supply on, the default settings are listed below. You can change them as you like.
- Central control: Turned off
- Operation changeover: With auto mode / auto cooling
- Set temperature: 20°C
- Fan speed: 4-speed
- Louver position: Horizontal

**FUNCTIONS OF EACH TIMER OPERATION**

- **Off** timer
   - When the specified period of time elapses, operation stops.
   - Operation is cancelled at the end of the setting time.

- **On** timer
   - The unit will stop when the setting time is reached.
   - The unit will stop when the setting time is reached. (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.)

- **Sleep** timer
   - When the specified period of time elapses, operation stops.
   - Operation is cancelled at the end of the setting time.

- **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 **OFF** button while timer mode is under setting, timer mode is canceled and the display will return to the original one. Note that the setting which has not been completed is canceled.**
- **If you 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 **OFF** button and **ON** button, 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 **OFF** button, the 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 >**

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 \( \text{\textcircled{1}} \) TIMER button. The mode changes to timer mode. “Current day of the week” and “Current time” are displayed.
   - Display area: \( \begin{tabular}{c|c|c|c|c|c|c} \text{SUN} & \text{MON} & \text{TUE} & \text{WED} & \text{THU} & \text{FRI} & \text{SAT} \end{tabular} \) \( \text{(current time)} \)

2. Press \( \text{\textcircled{2}} \) SET button. The display area shows “ \( \text{\textcircled{2}} \) Daily setting”.
   - “ \( \text{\textcircled{2}} \) Daily setting” mark stops.

3. Press \( \text{\textcircled{3}} \) or \( \text{\textcircled{4}} \) button. Place the “ \( \text{\textcircled{3}} \) daily setting” mark to the current day.
   - The “ \( \text{\textcircled{3}} \) daily setting” mark stops.

4. Press \( \text{\textcircled{4}} \) SET button. The day of the week is fixed, and the flashing of “ \( \text{\textcircled{3}} \) daily setting” mark stops and lights.
   - The “current time” value flashes, and “ \( \text{\textcircled{5}} \) daily setting” is displayed.

5. Press \( \text{\textcircled{5}} \) or \( \text{\textcircled{6}} \) button. Set to the current time.
   - If you press the \( \text{\textcircled{5}} \) RESET button, the remote control will return to the previous screen and display “ \( \text{\textcircled{5}} \) Daily setting”.

6. Press \( \text{\textcircled{6}} \) SET button. The day of the week is fixed, and the flashing of “ \( \text{\textcircled{3}} \) daily setting” mark stops and lights.
   - The “current time” value flashes, and “ \( \text{\textcircled{5}} \) daily setting” is displayed.

7. Press \( \text{\textcircled{6}} \) ON/OFF button. The timer mode is finished.

**NOTICE**

- If you press \( \text{\textcircled{6}} \) ON/OFF button while timer mode is under setting, timer mode is canceled and the display will return to the original one. Note that the setting which has not been completed is canceled.
- If you do not press any button for several minutes after entering the timer mode, the timer mode ends and the display returns to the original one.

**SLEEP TIMER MODE**

After a certain period of time has elapsed, operation stops.
- Sleep timer
  - The unit stops after the set time elapses.
- Off timer
  - The unit stops after the set time elapses.

1. Press \( \text{\textcircled{7}} \) TIMER button.
2. Press \( \text{\textcircled{8}} \) button once.
   - \( \text{\textcircled{9}} \) DAY SET \( \Rightarrow \) \( \text{\textcircled{10}} \) SLEEP TIMER
3. Press \( \text{\textcircled{11}} \) SET button.
   - [EXAMPLE] \( \text{\textcircled{12}} \) \( \text{\textcircled{13}} \) SLEEP TIMER

4. Press \( \text{\textcircled{14}} \) or \( \text{\textcircled{15}} \) button. The display changes as below. Set as you like.
   - \( \text{\textcircled{14}} \) \( \text{\textcircled{15}} \) \( \text{\textcircled{16}} \) \( \text{\textcircled{17}} \) \( \text{\textcircled{18}} \) \( \text{\textcircled{19}} \) \( \text{\textcircled{20}} \) \( \text{\textcircled{21}} \) \( \text{\textcircled{22}} \) \( \text{\textcircled{23}} \) \( \text{\textcircled{24}} \) \( \text{\textcircled{25}} \) \( \text{\textcircled{26}} \) \( \text{\textcircled{27}} \) \( \text{\textcircled{28}} \) \( \text{\textcircled{29}} \)

5. Press \( \text{\textcircled{16}} \) SET button.
   - [EXAMPLE] \( \text{\textcircled{17}} \) \( \text{\textcircled{18}} \) \( \text{\textcircled{19}} \) \( \text{\textcircled{20}} \) \( \text{\textcircled{21}} \) \( \text{\textcircled{22}} \) \( \text{\textcircled{23}} \) \( \text{\textcircled{24}} \) \( \text{\textcircled{25}} \) \( \text{\textcircled{26}} \) \( \text{\textcircled{27}} \) \( \text{\textcircled{28}} \) \( \text{\textcircled{29}} \)

6. Press \( \text{\textcircled{17}} \) ON/OFF button. The timer mode is finished.

**OFF TIMER MODE**

The unit stops operating at the setting time. This setting is effective for only once.

1. Press \( \text{\textcircled{30}} \) TIMER button.
2. Press \( \text{\textcircled{31}} \) button twice.
   - \( \text{\textcircled{32}} \) DAY SET \( \Rightarrow \) \( \text{\textcircled{33}} \) OFF TIMER
3. Press \( \text{\textcircled{34}} \) SET button.
   - [EXAMPLE] \( \text{\textcircled{35}} \) \( \text{\textcircled{36}} \) \( \text{\textcircled{37}} \) \( \text{\textcircled{38}} \) \( \text{\textcircled{39}} \) \( \text{\textcircled{40}} \) \( \text{\textcircled{41}} \) \( \text{\textcircled{42}} \) \( \text{\textcircled{43}} \) \( \text{\textcircled{44}} \) \( \text{\textcircled{45}} \) \( \text{\textcircled{46}} \) \( \text{\textcircled{47}} \) \( \text{\textcircled{48}} \) \( \text{\textcircled{49}} \)

4. Press \( \text{\textcircled{39}} \) or \( \text{\textcircled{42}} \) button. Set the time at which you want to stop the operation.
   - [EXAMPLE] \( \text{\textcircled{40}} \) \( \text{\textcircled{41}} \) \( \text{\textcircled{42}} \) \( \text{\textcircled{43}} \) \( \text{\textcircled{44}} \) \( \text{\textcircled{45}} \) \( \text{\textcircled{46}} \) \( \text{\textcircled{47}} \) \( \text{\textcircled{48}} \) \( \text{\textcircled{49}} \)

5. Press \( \text{\textcircled{40}} \) SET button.
   - [EXAMPLE] \( \text{\textcircled{41}} \) \( \text{\textcircled{42}} \) \( \text{\textcircled{43}} \) \( \text{\textcircled{44}} \) \( \text{\textcircled{45}} \) \( \text{\textcircled{46}} \) \( \text{\textcircled{47}} \) \( \text{\textcircled{48}} \) \( \text{\textcircled{49}} \)

6. Press \( \text{\textcircled{42}} \) ON/OFF button. The timer mode is finished.
HOW TO PERFORM THE TIMER OPERATION  < WIRED REMOTE CONTROL >

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

1. Press TIMER button.
2. Press button for three times.
   (Display: ON timer)
   (lights)
3. Press SET button.
   (Example)
   (lights)
   (lights)
4. Press or button.
   Set the preferred time to start the operation
   • Set "Hour":
     If you press or button for a while, "Hour" display is changed
     by one hour, and stops when you stop pressing.
   • Set "Minute":
     If you press or button, the number in the display becomes
     larger or smaller by ten minutes.
5. Press SET button.
   ON timer has been set.
   The left image is displayed in the display area.
   < If set to 10:00 AM >
   (lights)
   (lights)
   (lights)
6. Press or button
   Press button and Temp Set OFF is displayed
   Press or button and Temp Set ON is displayed
   Select either of the above two.
   • Go to step 7 if Temp Set ON is set.
   • Go to step 8 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)
   (lights)
   Set temperature at which you want to start the operation.
   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.
8. Press button.
   The timer mode is finished.

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

WEEKLY TIMER MODE
Selection of Weekly timer mode
You can set up to four ON/OFF timers per day. Note: Set every month in Weekly timer mode.

1. Press TIMER button.
2. Press button for four times.
   (Display: ON timer)
   (lights)
3. Press SET button.
   (Display: Temp Set)
   (lights)
4. Press or button.
   By pressing or button, it is possible to choose the item to set.
   • Temp Set (for setting the timer)
   • Holiday Set (for setting the selected day of the week to holidays)
   • Clock/On/Off (for checking the timer setting and canceling individual settings)
5. Press SET button.
   The selected mode is fixed.

NOTICE
• If you press 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 SETTING

1. In the Weekly timer mode, select Temp Set and press SET button to confirm.
   • See step 1 to 5 in "Selection of Weekly timer mode above"
2. Press button.
   Set the mark above the day of the week to the day to be set for timer setting. Press or button to move the right and left respectively, and move flashing.
3. Press button.
   Set time is displayed in the display area.
4. Press or button.
   Set the time.
5. Press or button.
   Set temperature at which you want to start the operation.
   Temperature is displayed only in case it is set.
6. Press or button.
   The unit starts to operate at setting time with set temperature.
   The time display is turned off.
7. Press button.
   The timer mode is finished.

NOTICE
• If you press the button while timer mode is under setting, timer mode is canceled and the display returns to the original one.
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HOW TO PERFORM THE TIMER OPERATION  < WIRED REMOTE CONTROL >

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

1. Press TIMER button.
2. Press button for three times.
   (Display: ON timer)
3. Press SET button.
   (Example)
4. Press or button.
5. Press SET button.
6. Press or button
7. Press SET button.
8. Press or button
9. Press SET button.
10. Press button.

NOTICE
• If you press the button while timer mode is under setting, timer mode is canceled and the display returns to the original one.
• If you do not press any button for several minutes after entering the timer mode, the timer mode ends and the display returns to the original one.
• ON timer and either Sleep timer or OFF timer are set together, 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 every month in Weekly timer mode.

1. Press TIMER button.
2. Press button for four times.
3. Press SET button.
4. Press or button.
5. Press SET button.
6. Press or button
7. Press SET button.
8. Press or button
9. Press SET button.
10. Press button.

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

WEEKLY TIMER SETTING

1. In the Weekly timer mode, select Temp Set and press SET button to confirm.
2. Press button.
3. Press button.
4. Press or button.
5. Press or button.
6. Press or button.
7. Press button.
8. Press button.
9. Press button.
10. Press button.

NOTICE
• If you press the button while timer mode is under setting, timer mode is canceled and the display returns to the original one.
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HOW TO PERFORM THE TIMER OPERATION  < WIRED REMOTE CONTROL >

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

1. Press TIMER button.
2. Press button for three times.
   (Display: ON timer)
3. Press SET button.
   (Example)
4. Press or button.
5. Press SET button.
6. Press or button
7. Press SET button.
8. Press or button
9. Press SET button.
10. Press button.

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• If you press the button while timer mode is under setting, timer mode is canceled and the display returns to the original one.
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Selection of Weekly timer mode
You can set up to four ON/OFF timers per day. Note: Set every month in Weekly timer mode.

1. Press TIMER button.
2. Press button for four times.
3. Press SET button.
4. Press or button.
5. Press SET button.
6. Press or button
7. Press SET button.
8. Press or button
9. Press SET button.
10. Press button.

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

WEEKLY TIMER SETTING

1. In the Weekly timer mode, select Temp Set and press SET button to confirm.
2. Press button.
3. Press button.
4. Press or button.
5. Press or button.
6. Press or button.
7. Press button.
8. Press button.
9. Press button.
10. Press button.

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

HOW TO PERFORM THE TIMER OPERATION  < WIRED REMOTE CONTROL >

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

1. Press TIMER button.
2. Press button for three times.
   (Display: ON timer)
3. Press SET button.
   (Example)
4. Press or button.
5. Press SET button.
6. Press or button
7. Press SET button.
8. Press or button
9. Press SET button.
10. Press button.

NOTICE
• If you press the button while timer mode is under setting, timer mode is canceled and the display returns to the original one.
• If you do not press any button for several minutes after entering the timer mode, the timer mode ends and the display returns to the original one.
• ON timer and either Sleep timer or OFF timer are set together, 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 every month in Weekly timer mode.

1. Press TIMER button.
2. Press button for four times.
3. Press SET button.
4. Press or button.
5. Press SET button.
6. Press or button
7. Press SET button.
8. Press or button
9. Press SET button.
10. Press button.

NOTICE
• If you press the button while timer mode is under setting, timer mode is canceled and the display returns 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 has already been made, all the timer numbers that have been set are displayed. And the details of the timer setting for the number which has " Ż " mark is displayed. You can modify the selected setting by overwriting it.

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

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

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

Press \( \bigtriangleup \) or \( \bigtriangledown \) button.
By pressing \( \bigtriangleup \) or \( \bigtriangledown \) button, it is possible to choose the item to set.

Set the time.

Press the \( \bigtriangledown \) button and " Ż " is displayed.
Press the \( \bigtriangledown \) button and "Ż" is displayed. Select either of the above two,
Press the \( \bigtriangledown \) button to return to the display in step 3.

Press \( \bigtriangleup \) SET button.
When time display lights, the time is fixed.
In case of OFF timer setting, setting process is completed on this step.
A " Ż " mark lights ( \( \bigtriangleup \) or \( \bigtriangledown \)) under the day of the week which you set and the display appears as the left image.
Proceed to "Next setting and Exit Weekly timer mode" on the right page.
In case of ON timer setting, " Y " is displayed, proceed to step 10.

Press \( \bigtriangleup \) or \( \bigtriangledown \) button.
Select either " Y " or "Ż".

Press \( \bigtriangledown \) button and " Ż " is displayed.
Press the \( \bigtriangledown \) button and "Ż" is displayed.
Select either of the above two.
Press the \( \bigtriangledown \) button to return to the display in step 5.

Press \( \bigtriangleup \) SET button.
When time display lights, the time is fixed.
In case of OFF timer setting, setting process is completed.
A " Ż " mark lights ( \( \bigtriangleup \) or \( \bigtriangledown \)) under the day of the week which you set and the display appears as the left image.
Proceed to "Next setting and Exit Weekly timer mode" on the right page.
In case of ON timer setting, "Ż" is displayed, proceed to step 12.

Press the temperature setting buttons \( \bigtriangleup \) or \( \bigtriangledown \) or the \( \bigtriangledown \) or the \( \bigtriangledown \) button to increase or decrease by 1°C.
Set the temperature at the start of operation.
Press the \( \bigtriangledown \) button to return to the display " Ż "" is displayed.

The value of the temperature stops flashing and lights.
A " Ż " mark lights ( \( \bigtriangleup \) or \( \bigtriangledown \)) under the day of the week which you set and the display appears as the left image.
Proceed to "Next setting and Exit Weekly timer mode" on the right page.

NOTICE
• If you press \( \bigtriangleup \) 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 " Ż " mark is displayed. You can modify the selected setting by overwriting it.
• If you set ON timer and OFF timer operating at the same time, OFF timer will precede.
If the same two times are set for ON timer on the same day, the lower number proceeds.

Display after Weekly timer modes setting
• The day of the week set is underlined.
The " Ż " mark is displayed above the current day of the week.
The display of all the timer operation numbers set for the current day is turned on.
The timer operations are executed in order, and the number and time display are turned off when all the timer operations for the current day are completed.
**HOW TO PERFORM THE TIMER OPERATION**

**< WIRED REMOTE CONTROL >**

### Weekly timer Holiday Setting

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

1. **In the Weekly timer mode, select and set “HOLIDAY SET”**
   - Press “SET” button. 
   - “SA” to “SAT” (days) is displayed in the display area “ ”. 
   - “ON/OFF” is displayed.

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

3. **Press “SET” button.**
   - The “O” mark above the day stops flashing and lights, and the day set as a holiday days (lights enclosed with “ ”). Then, the following is displayed.
   - “SA Mon Tue Wed Thu Fri Sat” (days) “HOLIDAY SET ON” (lights)
   - “SA Mon Tue Wed Thu Fri Sat” (days) “HOLIDAY SET OFF” (lights)

   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 press “RESET” button while the 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/TIMER”**.
   - “SA” to “SAT” (days) “HOLIDAY SET” (lights) “ON/OFF” (lights)

   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.

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

3. **Press “ON/OFF” button.**
   - “ON/OFF” (lights)
   - 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.

1. **In the Weekly timer mode, select and set “CHECK/TIMER”**.
   - “SA” to “SAT” (days) “HOLIDAY SET” (lights) “ON/OFF” (lights)

   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.

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

3. **Select the day of the week that has been set as holiday.**
   - Press Ź button when the “ ” mark above the day stops flashing and lights, and the day set as Holiday is shown on the left.

4. **Move the ” ” mark above the days of week to the one shown in step 1.**
   - Press Ź button when the ” ” mark displayed above “MON” to “FRI”.
   - Press Ź button to move to the right and left respectively.
   - Press Ź button to display the settings in the reverse order.

#### NOTICE

- If you press “RESET” button while the timer mode is under setting, timer mode is canceled and the display will return to the original one.
- In case you press the Ź button while timer mode is under setting, timer mode ends and the display returns 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.
HOW TO PERFORM THE TIMER OPERATION  < WIRED REMOTE CONTROL >

TIMER CANCELLATION MODE

1 Press TIMER button.  
Timer mode is selected.  
The current "The day of the week" and "the current time" are displayed.

2 Press button for five times.  
(Debrief Time)  
OFF TIME  
ON TIME  
(WEEKLY)  
(First press)  
(Second press)  
(Third press)  
(Fourth press)  
(Canceling all days of the week)

3 Press SET button.  
Timer Cancellation Mode begins.

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

(Debrief Time)  
OFF TIME  
ON TIME  
(WEEKLY)  
(Canceling all days of the week)

If you press the button, the remote control will return to the previous screen, and display TIMER ON/ OFF.  
(Stop 4 above)

In case "Weekly Timer" or "Off Time" or "On Time" was selected.

5 Press SET button.  
The selected setting of selected timer mode is displayed as shown below.  
If not set, " is displayed.

Display Ex: "Cancel?" "is selected.

If you would like to quit cancellation, press the button to return to the original display.

6 Press SET button.  
The display of the detailed timer setting is turned off, and after the message " Cancel? " is displayed for two seconds, " OFF TIME " is displayed again.  
Repeat steps 4 to 6 to continue cancelling timer mode settings.

NOTICE
If you press while timer mode is under setting, timer mode is canceled and the display returns 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.

HOW TO OPERATE IN SILENT MODE  < WIRED REMOTE CONTROL >

SILENT MODE

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

Silent Mode Setting

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

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

SET SILENT  " " icons display.

3 Press or button.  
If button is pressed, " OFF TIME " is displayed.  
If a button is pressed, " ON TIME " is displayed.  
Select " OFF TIME " or " ON TIME ".

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

4 Press SET button.  
The following setting is displayed.

5 Press or button.  
Set the "ON TIME".
☞ If you hold or , the number in "hour" display changes, and if you release it, the number stops changing.
☞ Set "Minute".

If you press or button, the number in the display becomes larger or smaller by ten minutes.
If you press the button, the remote control return to the original display.

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

7 Press or button to set the duration.  
Select OFF time.

When you press button, and the duration is increased by two hours as below.  
When you press button, and the duration is decreased by two hours.
If you press button, the "ON TIME SET" display returns.

8 Press SET button.  
The setting is fixed and displayed.  
The setting display turns off, and returns to original display.
HOW TO ADJUST THE LOUVER (IN CASE OF FDT, FDTC, FDE, FDK, FDFW) < WIRED REMOTE CONTROL >

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

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

When you operate the swing louver
1. Press LOUVER button, and change the display to 33D8.

The function of the swing louver during the heating preparation, heating/defrost
" (lights for two seconds)

When the position of the swing louver is fixed
1. Press LOUVER button once while the louver is swinging, and 4 step positions are displayed every one second in order.

The display during swing

- SWING
- STOP 1
- STOP 2
- STOP 3
- STOP 4

The display with the louver position fixed

- DATA LOADING
- LOUVER

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

Recommended louver fixed position

- COOL-DRY
  - SELECT 1
  - SELECT 2
  - SELECT 3
  - SELECT 4

- HEAT
  - SELECT 1
  - SELECT 2

NOTICE
• For FDT and FDTC types, in case the louver No. to be set is uncertain, select any louver temporarily. The louver will swing once when the setting is completed and it is possible to confirm the louver No. and the position.
• After that, choose the correct louver No. and set the top and bottom positions.
• For FDE and FDK type, set louver No. 1.
• For FDFW type, set louver No. 2.

Other settings selected have no effect.

How to set the airflow direction (In case of FDT, FDTC, FDE, FDK, FDFW) < WIRED REMOTE CONTROL >

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.

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

1/0000

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

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

Select the indoor unit of which the louver is set.

EXAMPLE 1A000 4 1/1001 2 3/1002 2 4/1003 2

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

Selected indoor unit is fixed.

EXAMPLE 1A000 2

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

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

EXAMPLE 1A000 1 4

Note: For FDE, select "position --" (return to the factory setting) if you need to change the setting to the factory setting, use "position --".

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 1A000 1 4

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

Select the upper limit of louver movable range.

- "position 1" is the most horizontal, and "position 0" 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 1A000 1 4

For FDT and FDTC:
- 1F1PB1 2 (The most horizontal)
- 1F1PB2 2
- 1F1PB3 1
- 1F1PB4 0
- 1F1PB5 0 (The most downward)
- 1F1PB6 0 (Return to the position of shipment)
HOW TO SET THE AIR FLOW DIRECTION < WIRED REMOTE CONTROL >

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

[EXAMPLE] "+10 UP" (lights for two seconds)
"+10 LOW" (lights for two seconds)
"+10 UP" (return to the position of shipment)
"+10 LOW" (return to the position of shipment)

8 Press A or B button (Selection of lower limit position)
Select the lower limit position of louver.
"position 1" is the most horizontal, and "position 6" is the most downwards.
"position 5" is to return to the factory setting. If you need to change the setting to the factory setting, use "position 5".
"+10 UP" (the most horizontal)
"+10 UP" (the most horizontal)
"+10 UP" (the most horizontal)
"+10 UP" (the most horizontal)
"+10 UP" (the most horizontal)
"+10 UP" (the most horizontal)

9 Press SET button (Fixing of the lower limit position)
The upper limit position and lower limit position are fixed, the set positions light for two seconds, and then the setting is completed.

[EXAMPLE] +10 UP 5
"SET COMPLETE"

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

NOTICE

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

AIROUTLET SELECTION (IN CASE OF FDFW)

It is possible to switch between the combination of upper and lower air outlets and upper air outlet. Not operable while the air conditioner is ON.

When the upper airflow is selected, UPPER AIR FLOW LED on the unit display will light green only under run.

<WIRED REMOTE CONTROL>

1. Stop the air conditioner.

2. Select the airflow from AIR SELECTION button on the unit display.

[EXAMPLE]
1. In case of selecting to upper airflow.
Press the AIR FLOW SELECTION button once, then press the SET button once again. UPPER AIR FLOW LED will light for ten seconds.

2. In case of selecting to upper and lower airflow.
When UPPER AIR FLOW LED is lit, press AIR FLOW SELECTION button once again. UPPER AIR FLOW LED will turn off.

HOW TO OPERATE VENTILATION (WHEN A VENTILATOR IS INSTALLED) < WIRED REMOTE CONTROL >

When the ventilator is set to "NO VENTILATOR LINK", the ventilator can be turned on and off independently regardless of the operation of the air conditioner.

When the ventilator is set to "VENTIL"; the ventilator operation will be interlocked with the air conditioner operation.

VENTILATION OPERATION LINKED WITH UNIT'S OPERATION

1. Press ON button.
If a ventilator is connected, ventilation will operate automatically.

2. Press ON button again.

NOTICE

• If no ventilator is connected, no operation can be performed by pressing the ventilation button. ("NO VENTILATOR LINK" is displayed).

VENTILATION OPERATION NOT LINKED WITH UNIT'S OPERATION

1. Press ON button.

2. Press ON button again.

NOTICE

• No operation can be performed by pressing the ventilation button. ("NO VENTILATOR LINK" is displayed).

FOR COMFORTABLE USE

Clean the filter frequently.

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

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.
• Uneven flow and drop 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.

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 airflow properly.
Do not expose yourself directly to the airflow 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 strikes during a thunderstorm.
Lightning strikes may lead to the failure of air-conditioning system.
<Wired Remote Control>

When the Check Indicator Light (red) Flashes

- The air conditioner stops in the event of any trouble.

The remote control indicates the air conditioner number whose indicator is red. Errors of other air conditioning units can be checked with the following procedures.

1. Press the AIR CON No. button. Enter the AIR CON No. display mode.
2. Press a button. The unit number display flashes in order from the lowest.
3. Press the (ON/OFF) button. Return to the AIR CON No. of the lowest number.

If errors have occurred for all of the connected air conditioning units, only the unit for which an error has occurred stops operating. The remote control shows the operating units.

How to Display AIR CON No.

- By operating AIR CON No. button, the number of the connected AIR CON unit and error codes of the units which have the record are displayed.

- If the following occurs, the batteries are exhausted. Replace them with new ones.
  - The signal is transmitted, but the AIR CON No. does not display on the remote control.
  - The display becomes dim, or it has no display.

Replacing the Batteries

- Pull out the cover.
- Remove the batteries when the remote control is not used for a long time.
- In case of the remote controller, the setting temperature of the remote controller indicates the outdoor temperature while operating remote control ON/OFF.

<Wireless Remote Control Handling Procedure>

1. Pull out the cover.
2. Remove the batteries when the remote controller is not used for a long time.

Replacing the Batteries

- Pull out the cover.
- Remove the batteries when the remote controller is not used for a long time.

<Standby Display>

- Pull out the cover.
- Remove the batteries when the remote controller is not used for a long time.

<Room Temperature Display>

- Pull out the cover.
- Remove the batteries when the remote controller is not used for a long time.

<Back Up Display>

- Pull out the cover.
- Remove the batteries when the remote controller is not used for a long time.

Name and Functions of Remote Control Buttons

- Pull out the cover.
- Remove the batteries when the remote controller is not used for a long time.

<Preparation>

- Pull out the cover.
- Remove the batteries when the remote controller is not used for a long time.

<Operation section Display section>

- Pull out the cover.
- Remove the batteries when the remote controller is not used for a long time.

<Filter sign, Air Conditioner Number, Standby and Room Temperature Display>

- Pull out the cover.
- Remove the batteries when the remote controller is not used for a long time.

<Error display when multiple indoor units are connected>

- Pull out the cover.
- Remove the batteries when the remote controller is not used for a long time.

<When the Filter Cleaning Message is Displayed>

- Pull out the cover.
- Remove the batteries when the remote controller is not used for a long time.

<When the Display of Remote Control has Troubles>

- Pull out the cover.
- Remove the batteries when the remote controller is not used for a long time.

<How to Display Room Temperature>

- Pull out the cover.
- Remove the batteries when the remote controller is not used for a long time.

<Setting the current time>

Automatically turn off, to prevent accidents due to an error.

- Pull out the cover.
- Remove the batteries when the remote controller is not used for a long time.

<Recovering from Power Failure>

- Pull out the cover.
- Remove the batteries when the remote controller is not used for a long time.

<Wall Mounting the Remote Control>

- Pull out the cover.
- Remove the batteries when the remote controller is not used for a long time.

<Operationsequence Display>

- Pull out the cover.
- Remove the batteries when the remote controller is not used for a long time.

<Room Temperature Display>

- Pull out the cover.
- Remove the batteries when the remote controller is not used for a long time.

<Backup Display>

- Pull out the cover.
- Remove the batteries when the remote controller is not used for a long time.

<Names and Functions of Remote Control Buttons>

- Pull out the cover.
- Remove the batteries when the remote controller is not used for a long time.

<Preparation>

- Pull out the cover.
- Remove the batteries when the remote controller is not used for a long time.

<Operation section Display section>

- Pull out the cover.
- Remove the batteries when the remote controller is not used for a long time.
HOW TO USE < WIRELESS REMOTE CONTROL >

HOW TO OPERATE

1. 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.)

2. The operation of remote control must be performed slowly and steadily.

OPERATION

1. Press [ON/OFF] button.
   The operation display light (Green) turns on, and the operation starts. The setting status is displayed on the liquid crystal area on the remote control.

2. Press MODE button.
   Current operation mode is indicated with the marks besides the operation mode icon.
   The mode will change in the following order by pressing the button.
   COOL (AUTO) – HEAT
   (The automatic operation can be selected in case of heat recovery system KX only. In case of KX, the automatic operation cannot be selected. In this case, setting changes it to automatic operation.)

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.
   High – Med – Low: FAN SPEED can be changed in order.

5. Press AIR FLOW button.
   Effective AIR FLOW direction: see page 15
   AUTO mode operation: Intermediate
   Cooling, dehumidifying mode: Horizontal
   Heating mode: Downwards
   Press [ON/OFF] button.

CURRENT TIME SETTING PROCEDURE

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

<table>
<thead>
<tr>
<th>EXAMPLE</th>
<th>AM (morning) 8:00 setting</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Press TIME SET UP switch. Press with the tip of ballpoint etc. The time display blinks and can be set to the current time.</td>
<td></td>
</tr>
<tr>
<td>2. Press or button to adjust to AM 8:00. Monday - Friday, noon: PM The displayed time changes by 1 minute when pressing the button. * or button is pressed during the driving, fast-forward or fast-backward can be done.</td>
<td></td>
</tr>
<tr>
<td>3. Press TIME SET UP switch. The value of the time displayed stops flashing and lights, and the setting is completed.</td>
<td></td>
</tr>
</tbody>
</table>

ON – TIMER OPERATION

Operation is started at the setting time.

EXAMPLE] If you would like to start the operation at AM 8:00
1. Press ON timer button. (OFF timer display) Operation is started.

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 stops flashing and lights, and the setting is completed. (Press within 60 seconds)
   • The operation display lamp of the air conditioner lights. (The receiving part of indoor unit)
   • At AM 8:00, TIMER/CHECK display lamp turns off and the air conditioner will start operating.

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

Time change
Press ON TIMER button to set again.

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 operate.

2. Press OFF timer button.
   • OFF timer display 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 stops flashing and lights, and the setting is completed. (Press within 60 seconds)
   • The operation display lamp of the air conditioner lights. (The receiving part of indoor unit)
   • At PM 9:00, TIMER/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.

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 turning off)
• 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.

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.

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.

**NOTICE**

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.

**FOR COMFORTABLE USE**

See page 12

**CHECK INDICATION, FILTER SIGN**

**Ceiling suspended (FDE)**

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 room 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.

**NOTICE**

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

**Floor standing 2-way (FDFW)**

- 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)**

- Check indicator lamp: red

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

- Check indicator lamp: red

**Ceiling cassette - 2 way (After FDTW-KXE6F)**

- Check indicator lamp: red

**Floor standing -2way- (FDFW)**

- Check indicator lamp: red

**Wall mounted (FDK)**

- Check indicator lamp: red

**NOTICE**

For FDTW, FDK and FDFW, check indicator lamp “check1”, “check2” shows error code.

The number of blinking shows the error code number of tens/ones place and check1/check2 corresponds to tens/ones place.
How to Maintain

Clean the Air Filter

Clean the filter frequently for economical operation.

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

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

How to remove the grille:

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

How to remove the filter:

1. 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.

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.

Ceiling cassette −2 way− (FDTW)

1. Push one side of the inlet panel (pin A side) upward.

2. Disengage the panel from pin A.

3. Disengage the panel from the pin B and remove the panel.

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

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

Install the air filter in the correct order.

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.

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

Backup button

In case of battery exhausted, or loss or any trouble of remote control, the air conditioner can be operated with the BACKUP button on the indoor unit display part.

Backup button

ON/OFF

"Press backup button and leave it untouched for two seconds.

The operation starts.

Press it again to stop the operation."

OPERATION MODE ...... AUTO FAN SPEED .......... HI

TIMER ....................... No setting

SET TEMP .................... 23°C

AUTO SWING .............. STOP (HORIZONTAL)

Ceiling suspended (FDE)

Backup button

Ceiling cassette −4 way− (FDT)

How to handle inlet grille/filter

Removal

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

1. Press backup button and leave it untouched for two seconds. The operation starts.

2. Press it again to stop the operation.

Ceiling cassette −4 way− (FDT)

How to remove the grille:

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

How to remove the filter:

1. 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.

Ceiling cassette −2 way− (FDTW)

1. Push one side of the inlet panel (pin A side) upward.

2. Disengage the panel from pin A.

3. Disengage the panel from the pin B and remove the panel.

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

Install the air filter in the correct order.

Ceiling cassette −4 way− (FDT)

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.

How to remove the filter:

1. 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.

Ceiling cassette −4 way− (FDT)

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.

How to remove the filter:

1. 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.

Ceiling cassette −4 way− (FDT)

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.

How to remove the filter:

1. 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.

Ceiling cassette −4 way− (FDT)

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.

How to remove the filter:

1. 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.

Ceiling cassette −4 way− (FDT)

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.

How to remove the filter:

1. 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.

Ceiling cassette −4 way− (FDT)

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.

How to remove the filter:

1. 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 MAINTAIN

Ceiling cassette - 4 way Compact (600×600mm) – (FDTC)

1. Slide the inlet grille lever in the direction of the arrow (→), and open it downwards.
2. Release the inlet grille stopper.
3. Pull the filter towards you.
4. When the filter is in place, insert the 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 lever in the opposite direction and check to be sure that the grille does not come open.

Ceiling suspended (FDE)

1. Slide the lever of the suction grille backward (← direction) and open it downwards.
2. Pressing the inlet grille, press the filter to remove it from the tab and pull it downwards.
3. Release the inlet grille stopper.
4. When the filter is put in place, insert the filter into the hooks on the inlet grille.
5. Lightly hold the knobs at the both sides as shown at right and insert securely.

Ceiling cassette - 1 way – (FDT)

1. Slide the lever of the suction grille in the arrow (→) direction to open the grille.
2. While lightly pushing up, remove the filter from the tabs at the left and right, and pull towards the front.
3. Pull up the suction grille forward. Hold the concave sections at both the right and left sides with your hands and pull the suction grille forward. It stops when being open at about 15°.

Wall mounted (FDK)

1. Pull up the suction grille forward. Hold the concave sections at both the right and left sides with your hands and pull the suction grille forward. It stops when being open at about 15°.
2. Lightly hold the handle of the air filter, slightly lift it upward, and then pull it out forward.

Floor standing -2 way- (FDFW)

How to open, close the inlet panel
Open
Place fingers at the recesses on both sides of the panel and pull down the panel forward so that it will be open by about 15°.
Close
Push both ends evenly and press further lightly at the center.

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

How to remove, install the inlet panel
Remove
1. Hold firmly the filter at the both sides as shown at right and insert securely.
2. Close the air inlet panel.

MAINTENANCE OF THE UNIT

• Clean the unit by wiping each with a piece of soft and dry cloth.
• If the unit is very dirty, wipe it with a cloth wet with neutral detergent dissolved in lukewarm water and wipe it off with clean water.

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

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), moisten filter with it and wash the detergent away completely.
2. After the air filter is dried, mount it to the main body and press the detergent away completely.

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

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

Remove

Open

ATTENTION
• Make sure to turn off the power supply.
• Clean the air filter and mount it.
• Clean the indoor/outdoor unit.

AT THE BEGINNING OF THE PERIOD OF USE
after a long period of use

• Make sure that there is no object blocking the airflow 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**

Check the following items before requiring service.

**POOR COOLING OR HEATING**
- Is the outdoor unit discharging water or steam during heating operation?
- Is the indoor unit fan not moving or abnormal sound heard?
- Does the digital display flicker?
- Does the indoor unit louver move automatically to the horizontal position when "PREPARATION OF HEATING" is displayed?
- Is there any unexpected heat source in the room?
- Is there too many people in the room?

The phenomena mentioned below is not malfunction.

**POOR COOLING**
- Is the air filter clogged?
- Are there any obstacles blocking the air inlet and outlet grill?

**NO HEAT AT HEATING**
- Is the unit in the heating preparation mode?

In order to protect the compressor, the indoor unit fan may take several minutes to begin moving after beginning cooling/defrosting/defrosting/defrosting operation.

**AUTOMATIC RESTART**

When a power failure occurs or the power supply is turned off, the operation will automatically resume from where it stopped before the power failure when the power supply is restored.

When a power failure occurs or the power supply is turned off, the indoor unit fan will automatically restart immediately when the power supply is turned on. In addition, the outdoor unit fan will also start at the restart of the power supply. (In case of the indoor unit fan, it starts after the power supply is turned on.)

**POOR COOLING**

- In the setting display area in horizontal (in case of FDFW type), 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.
- White vapor is generated from the outdoor unit during heating operation.
- The outdoor unit discharges water or steam during heating operation.
- The outdoor unit fan is not running even when the system is in heating mode.
- White vapor may be generated during generation of the compressor is in operation when the system is used in environment where oils and dirt are frequently used. In this case, check the dealer and clean the heat exchanger.
- The operation may switch to fan operation automatically in order to avoid frost building up on the surface of the heat exchanger. The operation will soon return to cooling operation.
- The indoor unit fan may continue operating for 40 seconds in order to remove remaining heat in the indoor unit.
- The outdoor unit discharge water or steam during heating operation.
- The outdoor unit louver 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 fan operation is automatically switched to normal operation.
- During the first 3 minutes after stopping operation, it is not possible to perform cooling, dehumidifying or heating operation even if the G10 button is pressed to indicate 'operation'. This is because a circuit for protecting the compressor is activated (the fan is activating during this period).
- The outdoor unit louver moves automatically when the power supply switch is turned on. This is not a trouble. The louver also moves automatically when the horizontal position when "PREPARATION OF HEATING" is displayed.
- The sensor 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 fan stops automatically when the system is in heating mode.

**PREPARATION OF HEATING**

When the indoor unit fan is not moving after an abnormal operation (in case of the heat recovery system KXR), the operation may stop during defrosting operation. In order to protect the compressor, the indoor unit fan may take several minutes to begin moving after beginning cooling/defrosting/defrosting/defrosting operation.

**DEFROST OPERATION**

- The air conditioning system cannot operate during defrosting operation.
- The operation may switch to fan operation automatically in order to avoid frost being built up on the heat exchanger in the outdoor unit in heating mode.
- The outdoor unit fan is not running even when the system is in heating mode.
- 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 unit fan may continue operating for 40 seconds in order to remove remaining heat in the indoor unit.
- The outdoor unit discharge water or steam during heating operation.
- The outdoor unit louver 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 fan operation is automatically switched to normal operation.
- During the first 3 minutes after stopping operation, it is not possible to perform cooling, dehumidifying or heating operation even if the G10 button is pressed to indicate 'operation'. This is because a circuit for protecting the compressor is activated (the fan is activating during this period).
- The outdoor unit louver moves automatically when the power supply switch is turned on. This is not a trouble. The louver also moves automatically when the horizontal position when "PREPARATION OF HEATING" is displayed.

**HEATING OPERATION**

Heat pump type air conditioners reheat the air from the outside air to warm up the room by means of the refrigerant.

**DEHUMIDIFYING OPERATION**

- When the relative humidity is 73% or higher, the operation may alternate between fan operation and dehumidifying operation even if the fan speed is automatically controlled.
- If the operation mode is set to the main and sub indoor unit during the heating recovery system KXR, defrost operation mode of the sub unit cannot be selected.
- The digital display area in the main unit
- In case of wireless remote control, the fan operation is automatically switched to normal operation when the system is used in environment where oils and dirt are frequently used. In this case, check the dealer and clean the heat exchanger.
- 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 unit fan may continue operating for 40 seconds in order to remove remaining heat in the indoor unit. Even if it stops, do not insert finger and/or stick.
- 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 outdoor unit fan is not running even when the system is in heating mode.
- 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 unit fan will automatically restart immediately when the power supply is turned on. In addition, the outdoor unit fan will also start at the restart of the power supply. (In case of the indoor unit fan, it starts after the power supply is turned on.)
The following button operations can be disabled. If the button is pressed, " ( )" is displayed indicating that the button is disabled, and the original display returns. Consult your dealer for " ( )" setting.

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

**SETTING TO DISABLE BUTTON OPERATION**

**NOTICE**

Please observe the following points in order to use the air conditioner in a safe and comfortable manner. Make sure to request your dealer for installation, and do not attempt to do by yourself.

**INSTALLATION LOCATION**

- Is the system installed in a well-ventilated place?
- Are there any obstacles? If so, it leads to the decrease of the efficiency and the increase of operation noises.
- Avoid the place where cool/warm air and operation noise cause problems to your neighbors.

**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 wire 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, it may lead to electric shock.
  - Only qualified specialists of electrical and grounding work can do these works according to "electric equipment technical standard".
  - Is the wiring designated for the air conditioner?
  - Is the remote control mounted correctly?
  - Is the attached remote control damage used for fixing the remote control cord?
  - 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.

**INSTALLATION, RELOCATION, AND INSPECTION MAINTENANCE**

- 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: Only qualified specialists of electrical and grounding work can do these works according to "electric equipment technical standard".
  - Is the installation fee charged for relocation and installation?

**OPERATION RANGE**

<table>
<thead>
<tr>
<th>Condition</th>
<th>Operation</th>
<th>Outdoor air temperature</th>
<th>Room temperature outside the room</th>
<th>Room temperature inside the room</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cooling</td>
<td>Dry operation</td>
<td>Approximately 22°C (72°F)</td>
<td>Approximately 7°C to 35°C</td>
<td>Approximately 65% or less</td>
</tr>
<tr>
<td></td>
<td>Long continuous operation under approximately 20°C may lead to condensation due to dew.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Heating</td>
<td>Dry operation</td>
<td>Approximately 15°C (59°F) or less</td>
<td>Approximately 20°C to 40°C</td>
<td>Approximately 65% or less</td>
</tr>
</tbody>
</table>

(Note) Operating range may differ depending on models. Please check the catalog.

**FDU F**

<table>
<thead>
<tr>
<th>Condition</th>
<th>Outdoor air temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cooling</td>
<td>30 - 40°C (86°F wet bulb) Dry-bulb</td>
</tr>
<tr>
<td>Heating</td>
<td>-15°C to 25°C Dry-bulb</td>
</tr>
</tbody>
</table>
## MAINTENANCE AND INSPECTION GUIDELINE OF MAIN PARTS OF PACKAGED AIR CONDITIONER

This table indicates the details of regular inspection items and their inspection intervals, and the timing of parts replacement under a normal use condition if the equipment falls into a certain category specified by the user and regulations of each country, conduct this maintenance and inspection according to the specified rules. As to the preventive maintenance, the regular inspection interval is indicated as the “inspection interval” and the predicted interval of the implementation of cleaning and adjustment or implementation of parts replacement and repair as “maintenance interval.”

### Structural components

<table>
<thead>
<tr>
<th>Part Name</th>
<th>Details of Inspection</th>
<th>Inspection Method</th>
<th>Criteria</th>
<th>Details of Maintenance</th>
<th>Inspection Interval</th>
<th>Maintenance Interval</th>
<th>Details of Maintenance</th>
<th>Precautionary Maintenance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fan</td>
<td>Visual check of dirt and damage</td>
<td>Visual inspection</td>
<td>There should be no dirt, scratches, or abrasion</td>
<td>Changing with insulation defects, replace by equivalent</td>
<td>6 years</td>
<td>Every week Before the air conditioning season</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Drainage</td>
<td>Visual check of dirt and damage</td>
<td>Visual inspection</td>
<td>There should be no dirt, scratches, or abrasion</td>
<td>Repair or replace if dirt or damage detected</td>
<td>6 years</td>
<td>Every week Before the air conditioning season</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ventilation</td>
<td>Visual check of dirt and damage</td>
<td>Visual inspection</td>
<td>There should be no dirt, scratches, or abrasion</td>
<td>Repair the leading parts, etc., when damage is detected</td>
<td>6 years</td>
<td>Every week Before the air conditioning season</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Ventilation system parts

<table>
<thead>
<tr>
<th>Part Name</th>
<th>Details of Inspection</th>
<th>Inspection Method</th>
<th>Criteria</th>
<th>Details of Maintenance</th>
<th>Inspection Interval</th>
<th>Maintenance Interval</th>
<th>Details of Maintenance</th>
<th>Precautionary Maintenance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Filter</td>
<td>Visual check of dirt and damage</td>
<td>Visual inspection</td>
<td>There should be no dirt, scratches, or abrasion</td>
<td>Replace it when determined or hardness</td>
<td>6 years</td>
<td>Every week Before the air conditioning season</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Drain system

<table>
<thead>
<tr>
<th>Part Name</th>
<th>Details of Inspection</th>
<th>Inspection Method</th>
<th>Criteria</th>
<th>Details of Maintenance</th>
<th>Inspection Interval</th>
<th>Maintenance Interval</th>
<th>Details of Maintenance</th>
<th>Precautionary Maintenance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Remote control</td>
<td>Visual check of dirt and damage</td>
<td>Visual inspection</td>
<td>There should be no dirt, scratches, or abrasion</td>
<td>Replace it in case of malfunction</td>
<td>20,000 Hr</td>
<td>8 years</td>
<td>8 years</td>
<td>Conservatory components</td>
</tr>
<tr>
<td>Temperature sensor</td>
<td>Visual check of dirt and damage</td>
<td>Visual inspection</td>
<td>There should be no dirt, scratches, or abrasion</td>
<td>Replace it in case of malfunction</td>
<td>20,000 Hr</td>
<td>8 years</td>
<td>8 years</td>
<td>Conservatory components</td>
</tr>
</tbody>
</table>

### Refrigerant system

<table>
<thead>
<tr>
<th>Part Name</th>
<th>Details of Inspection</th>
<th>Inspection Method</th>
<th>Criteria</th>
<th>Details of Maintenance</th>
<th>Inspection Interval</th>
<th>Maintenance Interval</th>
<th>Details of Maintenance</th>
<th>Precautionary Maintenance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fan</td>
<td>Visual check of dirt and damage</td>
<td>Visual inspection</td>
<td>There should be no dirt, scratches, or abrasion</td>
<td>Replace it in case of malfunction</td>
<td>6 years</td>
<td>Every week Before the air conditioning season</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Electrical components

<table>
<thead>
<tr>
<th>Part Name</th>
<th>Details of Inspection</th>
<th>Inspection Method</th>
<th>Criteria</th>
<th>Details of Maintenance</th>
<th>Inspection Interval</th>
<th>Maintenance Interval</th>
<th>Details of Maintenance</th>
<th>Precautionary Maintenance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drainage</td>
<td>Visual check of dirt and damage</td>
<td>Visual inspection</td>
<td>There should be no dirt, scratches, or abrasion</td>
<td>Cleaning or visual inspection</td>
<td>20,000 Hr</td>
<td>8 years</td>
<td>8 years</td>
<td>Conservatory components</td>
</tr>
</tbody>
</table>

Note 1) Random failure is an unexpected failure which occurs before the wear is progressed, within the service life of the parts and equipment 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 * expresses the operating time at 10 hours/season and 2000 hours/year is a normal operating condition without frequent start/stop. This may vary according to the operating condition. Please check the calculation method of the elapsed year when making a maintenance contract.

Note 3) Indicates the estimated timing when the wear-out begins, and how the failure rate increases as the time passes.

Note 4) The implementation timing of the inspection is basically every week. However, the conservation state varies depending on the type of filter and the maintenance category. Therefore, conduct inspection in arbitrary cycles according to the use condition.

### Maintenance and Inspections of the Air Conditioner

- **Mainly indoor 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.

### Maintenance and Inspections of the Air Conditioner

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### Part Name | Details of Inspection | Regular Inspection | Inspection Method | Criteria (standard) | Details of Maintenance | Prevention Maintenance | Elapsed Years | Remarks
--- | --- | --- | --- | --- | --- | --- | --- | ---
**Consumable components**

- **Bore, etc.**
  - Check of coating of anti-fading in paint coating
  - Check of leak and evaporation in plastic parts
  - Visual inspection
  - There should be no extensive rust generation, cracks, bulges, etc.
  - Performed by manual coating
  - Replace if there is any damage, such as cracks and bulges
  - 8 years

- **Frame, bottom plate parts**
  - Check of coat peeling off of the heat insulation material
  - Check of peeling off and feeling of paint coating
  - Visual inspection
  - There should be no extensive rust or damage to the insulation material
  - If the heat insulation material is peeling off, repair and adjust it
  - Regularly by manual coating
  - 20,000 Hr

- **Vibration-proof rubber**
  - Check of deterioration and hardening of rubber
  - Visual and audible inspection
  - There should be no vibration function of rubber
  - Replace it when broken or hardened
  - 8 years

### Installation parts

- **Fan cooling**
  - Visual check of vibration and balance
  - Check of dust adhesion and appearance
  - Visual inspection
  - Should not be in an extremely abscission condition
  - Replace it in case of vibration and extreme appearance
  - 15,000 Hr

- **Fan motor**
  - Check of operation and insulation measurement
  - Lenshield resistance 500 V rge
  - Visual inspection
  - There should be no potential issues generation
  - The resistance value should be 1 M Ω or more
  - When the resistance value is 1 M Ω or less, replace the motor
  - 20,000 Hr

- **Bearing**
  - Regular lubrication is required
  - Visual inspection
  - There should be no abnormal sound generation
  - Replace parts regularly
  - 15,000 Hr

- **Compressor**
  - Sound audibility and vibration at the startup, operation, and stop
  - Insulation measurement after energizing the manufacturer designated time
  - Visual, audible, and tactile inspection
  - There should be no abnormally high vibration, vibration, sound, or corrosion
  - Replace it if abnormal
  - 20,000 Hr

- **Air heat exchanger**
  - Check the stopping and damage due to foreign objects
  - Gas leakage
  - Visual inspection
  - There should be no stopping or leakage
  - No leakage should be detected
  - Replace it when gas leakage is detected
  - 5 years

- **Piping in the unit**
  - Operation sound, dust adhesion and contact of auxiliary parts
  - Visual inspection
  - There should be no abnormal sympathetic vibration, sound, or contact
  - Replace it or readjust the piping when abnormal vibration, sound, or contact wear
  - 20,000 Hr

### Integrated parts

- **Electronic expansion valve**
  - Operation sound by power on/off (pressure check)
  - Visual inspection
  - There should be no driving sound and temperature
  - Circulation of refrigerant should be felt
  - Replace it in case of driving sound
  - 20,000 Hr

- **Electronic expansion valve, start switching valve, etc.**
  - Operation and insulation performance of electronic expansion valve, start switching valve, etc.
  - Visual and audible inspection
  - The resistance value should be 1 M Ω or more
  - Replace it if the resistance value is 1 M Ω or less
  - 20,000 Hr

- **Fan**
  - Check of grease and unbalance (check the normal position)
  - Visual inspection
  - There should be no unbalance
  - Replace it if there is any damage
  - 5 years

- **Electronic expansion valve, start switching valve, etc.**
  - Pressure (gas) check, insulation measurement
  - Visual inspection
  - There should be no excessive pressure
  - Replace it if it does not operate within the permitted range of handling work
  - 20,000 Hr

- **Motor**
  - Appearance check of winding and bushing
  - Visual inspection
  - There should be no abnormality in the winding
  - Replace the device if there is any abnormality
  - 15,000 Hr

---

**Note 1:** Random fault is an unexpected failure which occurs before the wear is progressed. In this case, the service life of the parts and equipment 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 starting. This may vary according to the operating condition. Please check the calculation based on the elapsed year when making a maintenance contract.

**Note 3:** It illustrates the estimated timing when the wear-out failure starts and how the failure rate increases as the time passes.
### Table: Regular Inspection and Preventive Maintenance

<table>
<thead>
<tr>
<th>Part Name</th>
<th>Details of Inspection</th>
<th>Inspection Method</th>
<th>Criteria</th>
<th>Details of Maintenance</th>
<th>Inspection Interval</th>
<th>Maintenance Method (Part Disassembly)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Antifreezing heater</strong></td>
<td>Conductivity check, appearance check</td>
<td>Visual inspection</td>
<td>The resistance value should be 1M Ω or more</td>
<td>Replace it if the resistance value is 1M Ω or less</td>
<td>Every 5 years</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Insulation resistance check</td>
<td>Visual inspection</td>
<td>The resistance value should be 1M Ω or more</td>
<td>Replace it if the resistance value is 1M Ω or less</td>
<td>25,000 Hr</td>
<td>-</td>
</tr>
<tr>
<td><strong>Dielectric component box (including Carter)</strong></td>
<td>Conductivity check, appearance check</td>
<td>Visual inspection</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Terminal part, connector, insulator check</td>
<td>Visual inspection</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Capacitor (electrolytic) appearance check</td>
<td>Visual inspection</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td><strong>Temperature sensor</strong></td>
<td>Conductivity check, insulation resistance check</td>
<td>Visual inspection</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Appearance check</td>
<td>Visual inspection</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td><strong>Pressure sensor</strong></td>
<td>Conductivity check, insulation resistance check</td>
<td>Visual inspection</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Appearance check</td>
<td>Visual inspection</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td><strong>Switch, etc. (including F24, FL4, etc.)</strong></td>
<td>Conductivity check, appearance check</td>
<td>Visual inspection</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Rough contact surface</td>
<td>Visual inspection</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td><strong>Relaying power source</strong></td>
<td>Output voltage measurement</td>
<td>Visual inspection</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td><strong>Cooling fan</strong></td>
<td>Insulation resistance, ambient sound generation</td>
<td>Visual inspection</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

**Remarks**

1. Random faults (unspecified failure) which occur between the service hours, 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.

2. The elapsed year marked with * assumes the operating time every 10 hours and 2500 hours. For normal operating condition without frequent starting. This may vary according to the operating condition. Please check the calculation basis of the elapsed year when making a maintenance contract.

3. Indicates the estimated timing when the wear-out failure starts and how the failure rate increases as the time passes.
EU DECLARATION OF CONFORMITY

MITSUBISHI HEAVY INDUSTRIES THERMAL SYSTEMS, LTD.
2-3, Marunouchi 3-chome, Chiyoda-ku, Tokyo, 100-8332, Japan

declare under our sole responsibility that the apparatus referred to in this declaration conforms with the following directives.

Description of apparatus: Split Type Air Conditioner
Model name:

Conformity model list

<table>
<thead>
<tr>
<th>Indoor Unit</th>
<th>Outdoor Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>FDFW Series</td>
<td>FDK Series</td>
</tr>
<tr>
<td>FDU Series</td>
<td>FDUH Series</td>
</tr>
<tr>
<td>FDUM Series</td>
<td>FDU-F Series</td>
</tr>
<tr>
<td>FDUT Series</td>
<td>FDT Series</td>
</tr>
<tr>
<td>FDC-KXZPE1 Series</td>
<td>FDC-KEP Series</td>
</tr>
</tbody>
</table>

Relevant EU Directives:
Machinery EU Directive 2006/42/EC

Applied Standards:
EN 378-2
EN 60335-1
EN 60335-2-40

Authorized representative in the EU:
MITSUBISHI HEAVY INDUSTRIES AIR-CONDITIONING EUROPE, LTD.
5 The Square, Stockley Park, Uxbridge, Middlesex, UB11 1RT, United Kingdom

Note: About the detail of Conformity model, see EC DECLARATION OF CONFORMITY sheet included in a package.
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