

MITSUBISHI HEAVY INDUSTRIES LTD. PACKAGED AIR CONDITIONER

- Ceiling cassette -4 way- (FDT)
- Ceiling cassette -4 way Compact (600x600mm)- (FDTC)
- Ceiling cassette -2 way- (FDTW)
- Ceiling cassette -1 way Compact- (FDTQ)
- Ceiling cassette -1 way- (FDTS)
- Duct connected -High static pressure- (FDU)
- Duct connected -Middle static pressure- (FDUM)
- Ceiling suspended (FDE)
- Wall mounted (FDK)
- Floor standing -2 way- (FDL)
- Floor standing (with casing) (FDL)
- Floor standing (without casing) (FDL)
- Duct connected (Ultra thin) -Low static pressure- (FDQS)
- Duct connected -Low static pressure- (FDUT)
- Duct connected -Compact&Flexible- (FDUH)
- Duct connected -High static pressure outdoor air processing unit (FDU -F)



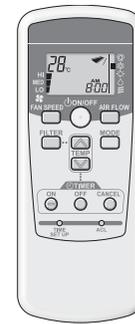
<WIRED REMOTE CONTROL>
RC-E5

- ※ Please refer to the manual provided with eco touch REMOTE CONTROL
- ※ S'il vous plaît se référer à la documentation fournie avec la eco touch télécommande
- ※ Bitte beachten Sie die Dokumentation, die mit der eco touch Fernbedienung kam



<eco touch REMOTE CONTROL>
RC-EX series ※

- ※ Si prega di fare riferimento alla documentazione fornita con il eco touch telecomando
- ※ Por favor, consulte la documentación que viene con el eco touch mando a distancia
- ※ Raadpleeg de documentatie die bij de eco touch afstandsbediening



<WIRELESS REMOTE CONTROL>

- ※ Por favor, consulte a documentação que veio com o eco touch controle remoto
- ※ Ανατρέξτε στην τεκμηρίωση που συνοδεύει το eco touch τηλεχειριστήριο
- ※ Пожалуйста, обратитесь к документации, поставляемой с eco touch дистанционным управлением

- USER'S MANUAL **ENGLISH**
- MANUEL DE L'UTILISATEUR **FRANÇAIS**
- ANWENDERHANDBUCH **DEUTSCH**
- ISTRUZIONI PER L'USO **ITALIANO**
- MANUAL DEL PROPIETARIO **ESPAÑOL**
- GEBRUIKERSHANDLEIDING **NEDERLANDS**
- MANUAL DO UTILIZADOR **PORTUGUÊS**
- ΟΔΗΓΙΕΣ ΧΡΗΣΗΣ **ΕΛΛΗΝΙΚΑ**
- РУКОВОДСТВО ПО ЭКСПЛУАТАЦИИ И **РУССКИЙ**
- KULLANIM KILAVUZU **TÜRKÇE**

※ eco touch uzaktan kumanda ile birlikte gelen belgelere bakın



This air conditioner complies with EMC Directive 2004/108/EC, LV Directive 2006/95/EC.
CE marking is applicable to the area of 50 Hz power supply.

Ce climatiseur est conforme à la Directive EMC: 2004/108/EC, LV Directive 2006/95/EC.
La marque CE s'applique aux régions alimentées en courant de 50 Hz.

Dieses Klimagerät erfüllt die EMC Direktiven 2004/108/EC, LV Direktiven 2006/95/EC.
Die CE-Marke gilt für Bereiche mit einer Netzstromversorgung von 50 Hz.

Questo condizionatore d'aria è conforme alla Direttiva EMC: 2004/108/EC, LV Direttiva 2006/95/EC.
Il marchio CE è applicabile alla fascia di alimentazione 50 Hz.

Este acondicionador de aire cumple con la directiva EMC: 2004/108/EC, LV Directiva 2006/95/EC.
La indicación CE sólo corresponde al área de suministro eléctrico de 50 Hz.

Deze airconditioner voldoet aan EMC Directive 2004/108/EC, LV Directiva 2006/95/EC.
CE-markering is van toepassing op het gebied met een netstroom van 50 Hz.

Este aparelho de ar condicionado está em conformidade com a Directiva EMC 2004/108/EC, a Directiva LV 2006/95/EC.
A marca CE aplica-se à zona de fornecimento de energia a 50 Hz.

Το κλιματιστικό συμμορφώνεται προς την οδηγία 2004/108/ΕΚ περί ηλεκτρομαγνητικής συμβατότητας (EMC) και την οδηγία LV 2006/95/ΕΚ.
Το σήμα CE ισχύει μόνον σε περιοχές όπου η τροφοδοσία είναι 50 Hz.



Thank you very much for your purchase of this packaged air conditioning system produced by Mitsubishi Heavy Industries. Please read through this manual before using the product and use the product appropriately according to the instructions in the manual. After you have read the manual, store it with the warranty certificate in a safe place. It will help you when you have questions or problems.

Do not vent R410A into the atmosphere: R410A is a fluorinated greenhouse gas, covered by the Kyoto Protocol with a Global Warming Potential (GWP) = 1975.

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

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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.

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

 △ marks mean danger, alarm, and caution. The specified prohibited item is described in the triangle. The left mark means “Shock

hazard alarm”.

 ○ marks mean prohibited items. The specified prohibited item is described in the circle or in the vicinage.

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

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

INSTALLATION PRECAUTIONS

DANGER

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

If you install by yourself and the unit is not properly installed, water leakage, electric shock, fire and injuries caused by the drop of the unit may occur.

Electrical installation work must be performed by an electrical installation

service provider qualified by a power provider of the country. Electrical installation work must be executed according to the technical standards and other regulations applicable to electrical installations in the country.

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 around 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 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 airflow is directly blown to animals and plants. They may suffer from adverse effect.

Before cleaning, make sure to stop operation and cut off the power. ⚠️
Otherwise the fan inside may unexpectedly start operation, leading to injury.

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. ⚠️
It may cause injuries because of the fan rotating at high speed.

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 indoor and 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.

The stepladder used for removing and attaching the air filter must be fixed firmly. ⚠️
Otherwise, it may lead to injury due to overturn or fall.

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

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

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

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

Do not place any object around the outdoor unit, nor allow fallen leaves to pile up. ⚠️
Fallen leaves may induce insects and worms in them, and they may lead to failure, ignition or smoking by touching electric components.

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

Do not 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 and around it which must avoid being exposed to water. ⚠️
Over 80 percent humidity or the clogging of drain pipe may damage them through dew dropping.

Do not let the foreign matters enter the indoor unit through the air outlets. ⚠️
This may cause the dumper inoperable.

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.

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.

PRECAUTIONS FOR WASTE DISPOSAL



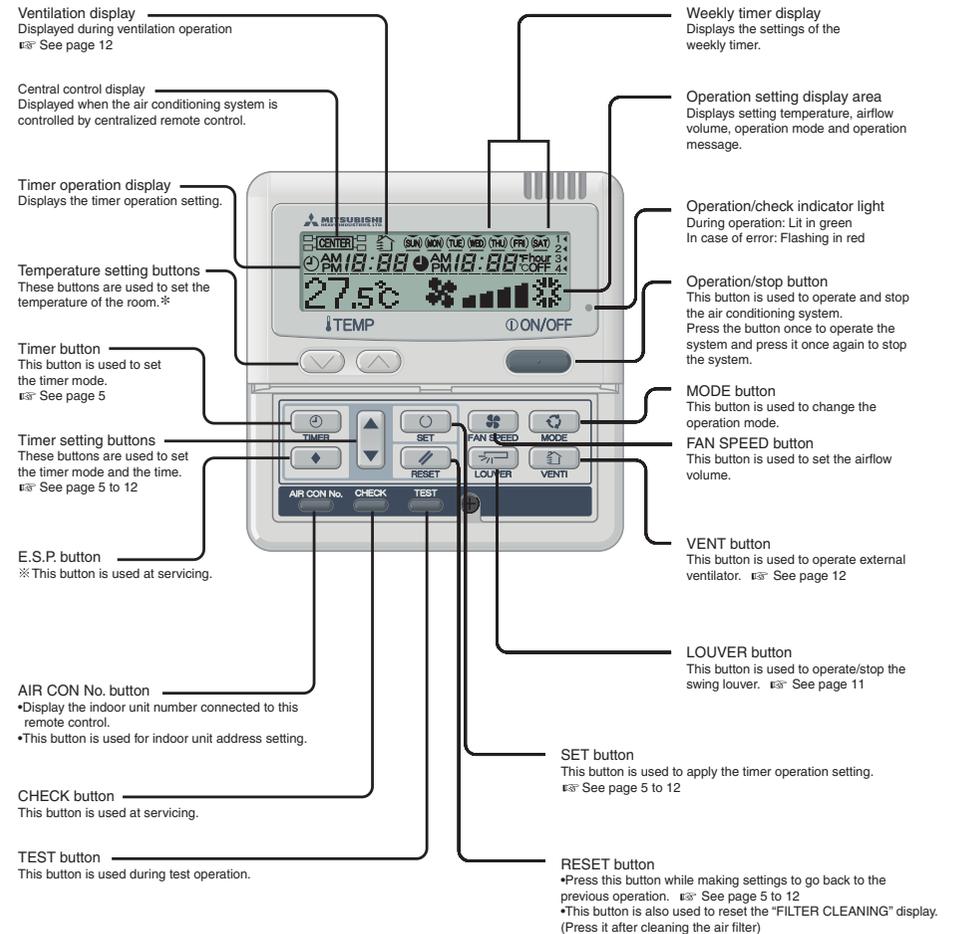
Your Air Conditioning product may be marked with this symbol. It means that waste electrical and electronic equipment (WEEE as in directive 2002/96/EC) should not be mixed with general household waste. Air conditioners should be treated at an authorized treatment facility for re-use, recycling and recovery 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)

Wired remote control

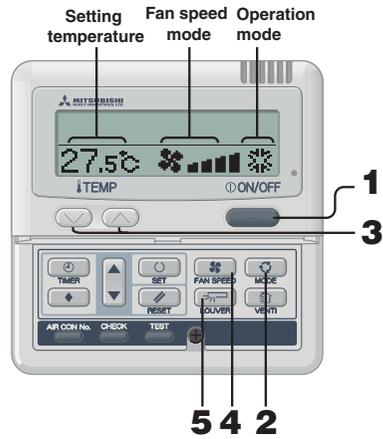
- The figure below shows the remote control with the cover opened. Note that the items in the liquid crystal display (LCD) area are shown for explanation purpose. Characters displayed with dots in the liquid crystal display (LCD) area are abbreviated. Pull the cover downwards to open.



* IN case of FDU-F
The setting temperature of the remote controller indicates the outdoor temperature while operating thermostat ON/OFF.

HOW TO OPERATE (Dehumidifying operation is prohibited for FDU-F.) < WIRED REMOTE CONTROL >

ATTENTION • Turn on the power supply of both indoor/outdoor units for six hours before starting the unit to protect the units. (The crankcase is conducted and the compressor is heated) Do not turn off the power supply. (The crankcase heater is conducted while the compressor is stopped, preventing failure of the compressor due to accumulation of liquid refrigerant by keeping the compressor warm.)

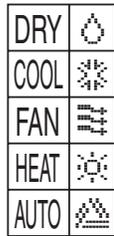


Guideline for room temperature setting

- COOL26 to 28°C
- DRY21 to 24°C
- HEAT22 to 24°C
- FAN.....Setting unnecessary

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

Operation mode



ATTENTION

- The display of "OPERATION MODE INVALID" flashes and the operation is switched to "Fan" in the following case because the operation modes do not match.
 - (1) When other indoor units are operating in different modes (with KXR, the heat recovery system, it is possible to operate indoor units in different cooling/heating modes).
- Do not turn the air conditioning system on/off frequently.
- Do not use sharp objects to press the remote controller switches.

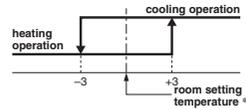
1 Press ON/OFF button.

The unit starts operating.

2 Press MODE button.

The range of operation mode is displayed according to the model of indoor unit. Every time the button is pressed, the display changes in the following order dry → cool → fan → heat. (→ auto)* (The automatic operation can be selected in case of the heat recovery system KXR only. The automatic operation cannot be selected in case of heat pump system KX.)

- With auto operation, heating and cooling is automatically changed depending on difference between the setting temperature and room temperature.*



* IN case of FDU-F
The setting temperature of the remote controller indicates the outdoor temperature while operating thermostat ON/OFF.

3 Press TEMP button.

Press or button to set the room temperature.*

* IN case of FDU-F
The setting temperature of the remote controller indicates the outdoor temperature while operating thermostat ON/OFF.

4 Press FAN SPEED button.

The range of fan speed modes is displayed according to the model of indoor unit.

- At 4-speed.....
- At 3-speed.....
- At 2-speed..... or
- At 1-speed.....The operation is invalid

at 4-speed
The unit operates with the maximum fan speed.

5 Press LOUVER button.

If the indoor unit is equipped with the auto swing function, press the LOUVER button once and current louver status is displayed.

If the indoor unit is not equipped with the auto swing function, the message "INVALID OPER" is displayed.

- For the louver operation See page 11 to 12
 - ① Press LOUVER button, and change the display to
 - For the louver stopping See page 11 to 12
 - ① Press once while the louver is operating to display stop positions in order.
 - ② Press the button once more at the preferred stop position to stop the louver at that position.
- Effective stop position See page 11 to 12
- At automatic operation..... middle
 - At cooling/dehumidifying operation..... Horizontal
 - At heating operation: downwards

Stop Press ON/OFF button

NOTE

- There may be a case that "INVALID OPER" is displayed when any button mentioned in the above is pressed, but it is not a malfunction. In that case, the operation of the button is prohibited.
- When you start to operate for the first time after turning the power supply on, the unit starts to operate as below. You can change the setting as you like.
 - Central control..... Turned off
 - Operation changeover..... With auto mode : auto cooling
 - Without auto mode : cooling
 - Set temperature23°C
 - Fan speed
 - Louver position..... Horizontal

HOW TO PERFORM THE TIMER OPERATION < WIRED REMOTE CONTROL >

THE SELECTION OF TIMER MODE

1 Press TIMER button.

It enters the timer mode. "Current day of the week" and "Current time" are displayed. [EXAMPLE] Monday : 10 o'clock in the morning



2 Press or button.

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

- (set to current time)
- (The unit stops operating at each setting time once it is set.)
- (The unit stops operating at the setting time.)
- (The unit starts operating at the setting time.)
- (Timer set by one week)
- (Cancel the timer setting)

If you press the button, the display of the following timer modes is switched in the upwards direction. If you press the button, timer mode ends and return to original status.

3 Press SET button.

The selected timer mode is set.

For setting of each timer mode, See next page and thereafter.

Each timer mode can be set in parallel. The following combinations are available.

Combination of modes that can be set together (○: possible x: impossible)

	Sleep timer	OFF timer	ON timer	Weekly timer
Sleep timer		x	○	x
OFF timer	x		○	x
ON timer	○	○		x
Weekly timer	x	x	x	

- If you select a combination of modes that cannot be set together and press the SET button, the message "INVALID OPER (invalid operation)" is displayed for 3 seconds and then it returns to the display selected in step 2.

ATTENTION

- If you press the button while timer mode is operative, timer mode is finished and the display will return to the original display. Note that the setting which has not 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) shows preference to the ON timer.
- If you press the timer button and "INVALID OPER" is displayed, the button can not be operated because the button operation is disabled. If you want to make the button effective, consult your dealer.
- If you do not press any button for several minutes after pressing the Timer button, Timer mode ends and returns to the original display.
- If a power failure occurs, the specified timer settings will be canceled except Sleep timer. Weekly timer setting will return to the condition that all days of the week selected as "holidays".

SETTING THE TIME

Timer operation is performed base on the time set by the steps described in this section. Make sure to set the time to the current time correctly.



1
3
2
5
4
6

- 1 Press TIMER button.**
It enters the timer mode.
"Current day of the week" and "Current time" are displayed.
Display area : [SUN MON TUE WED THU FRI SAT]
[PM 1:00]
- 2 Press SET button.**
The display area shows : [SUN MON TUE WED THU FRI SAT]
(▼ flashes)
[PM 1:00] (current time)
- 3 Press ▲ or ▼ button.**
Align the ▼ mark above the day of the week to the current day of the week.
Press ▲ and ▼ mark to move to the right and the left respectively.
If you press the RESET button, the remote control will return to the previous screen and display .
- 4 Press SET button.**
The day of the week is fixed, and the flashing of ▼ mark turns to lighting stably.
"current time" is displayed by flashing in the ON timer display area, and is displayed in the display area.
- 5 Press ▲ or ▼ button.**
Set to the current time.
If you press the RESET button, the remote controller return to step 1.
- 6 Press SET button.**
The flashing of time display turns to lighting stably, and is displayed to show that the current time is set.
Two seconds later, it returns to step 1, and is displayed.
- 7 Press ON/OFF button.**
The timer mode is finished.



ATTENTION

- If you press button while timer mode is operative, timer mode is canceled and the display will return to the original display. 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 returns to the original display.

SLEEP TIMER MODE

After certain period has elapsed, the unit stops operating.
• Sleep timer
The unit stops operating at each setting time once it is set.



1 2•4 3•5

NOTE

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

OFF TIMER MODE

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



1 2•4 3•5

NOTICE If you start the operation while you are setting the OFF timer, operate the air conditioner before setting of timer.

ATTENTION

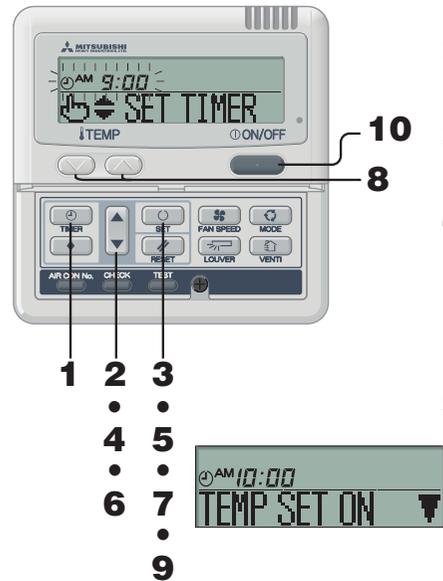
- If you press button while timer mode is operative, timer mode is canceled and the display will return to the original display.
- If you do not press any button for several minutes after entering the timer mode, the timer mode ends and returns to the original display.

- 1 Press TIMER button.**
- 2 Press ▼ button once.**
 →
- 3 Press SET button.**
[EXAMPLE] " 1 OFF " flashes,
 " lights.
- 4 Press ▲ or ▼ button.**
The display changes as below. Set as you like.
" 1 OFF " ↔ " 2 OFF " ~ " 9 OFF " ↔ " 10 OFF "
- 5 Press SET button.**
Sleep timer has been set.
If the Sleep timer is set when the unit stops, it starts operating.
After is displayed in the display area, it returns to step 2.
<When "Ten hours later OFF" is set >
" 10 OFF " (lights)
 (lights for two seconds)
↓
" 10 OFF " (lights)
 (lights)
The time left is displayed by one hour as time passes off after the setting.
When the setting time elapses, the unit stops operating.
The unit stops operating at each setting time once it is set.
- 6 Press ON/OFF button.** The timer mode is finished.

- 1 Press TIMER button.**
- 2 Press ▼ button twice.**
 → →
- 3 Press SET button.**
[EXAMPLE] " PM 4:00 " flashes,
 " lights.
- 4 Press ▲ or ▼ button.**
Set the time at which you want to stop 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 display increases or decreases by ten minutes.
- 5 Press SET button.**
OFF timer has been set.
After is displayed in the display area, it returns to step 2.
<If set to 6:00 PM >
" PM 6:00 " (lights)
 (lights for two seconds)
↓
" PM 6:00 " (lights)
 (lights)
The unit stops operating at 6:00 PM.
The time display is also turned off.
- 6 Press ON/OFF button.** The timer mode is finished.

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. One setting results in one operation only.



- Press **TIMER** button.
- Press **▼** button for three times.
[CLOCK SET ▼] → [SLEEP TIMER ⇄] → [OFF TIMER ⇄] → [ON TIMER ⇄]
- Press **SET** button.
[EXAMPLE] "AM 9:00" flashes, "SET TIMER" lights.
- 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 display increases or decreases by ten minutes.
- Press **SET** button.
ON timer has been set.
The left display is displayed in the display area.
<If set to 10:00 AM >
"AM 10:00" (lights)
"TEMP SET ON" (lights)
If you press the **RESET** button, the remote control will return to the previous screen.
- Press **▲** or **▼** button.
Press **▼** button and "TEMP SET OFF ▲" is displayed
Press **▲** button and "TEMP SET ON ▼" is displayed
Select either of the above two.
 - Go to step 7 if temperature is set.
 - Go to step 9 if set temperature is not set.
- Press **SET** button.
The left display is displayed in the display area.
<If set to 10:00 AM >
"AM 10:00" (lights)
"27°C" (The current set temperature is displayed flashing)
"SET UP" (lights)
- Press **▲** or **▼** button to set temperature.
If you press **▲** or **▼** button, the display increases or decreases by 1°C.
Set temperature at which you want to start the operation.
If you press the **RESET** button, the remote control will return to the previous screen.
- Press **SET** button.
ON timer is set, and after "TIMER SET OK" is displayed, it returns to step 2.
<If set to 10:00 AM >
"AM 10:00" " 27°C" (lights)
"TIMER SET OK" (lights)
"AM 10:00" " 27°C" (lights)
"ON TIMER" (lights)
Set temperature is displayed only in case it is set.
The unit starts to operate at setting time with set temperature.
The time display is turned off.
- Press **ON/OFF** button.
The timer mode is finished.

ATTENTION

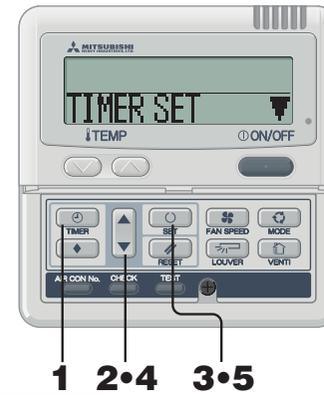
- If you press the **ON/OFF** button while timer mode is operative, timer mode is canceled and the display will return to the original display.
- If you do not press any button for several minutes after entering the timer mode, the timer mode ends and returns to the original display.
- ON timer and either Sleep timer or OFF timer are set together, the temperature of ON timer is not displayed.
- ON timer and either Sleep timer or OFF timer are set together, OFF timer (or Sleep timer) shows preference.

WEEKLY TIMER MODE

Selection of Weekly timer mode

Up to four times of timer operation (ON timer/OFF timer) are available for each day of the week.

Note : Set time every month in Weekly timer mode.



ATTENTION

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

WEEKLY TIMER SETTING



2•4•6•8•10
3•5•7•9•11•13

<In case Monday is set>



[EXAMPLE]

- Number 1 : AM 9:00
- Number 2 : PM 0:00
- Number 3 : PM 1:00
- Number 4 : PM 5:00

* Four operations can be set with only ON timer or only OFF timer.

- Press **TIMER** button.
- Press **▼** button for four times.
[CLOCK SET ▼] → [SLEEP TIMER ⇄] → [OFF TIMER ⇄] → [ON TIMER ⇄] → [WEEKLY TIMER ⇄]
- Press **SET** button.
"TIMER SET" is displayed in the display area.
- Press **▲** or **▼** button.
By pressing **▲** or **▼** button, it is possible to choose the item to set.
"TIMER SET" (for setting the timer)
"HOLIDAY SET" (for setting the selected day of the week to holiday)
"CHECK/CANCEL ▲" (for checking the timer setting and canceling individual settings)
- Press **SET** button.
The selected mode is fixed.

- In the Weekly timer mode, select "TIMER SET" and press SET button confirm.
See step 1 to 5 in the above "Selection of Weekly timer mode"
"SUN MON TUE WED THU FRI SAT" (▼ is flashing)
"SET DAY" is displayed in the display area.
- Press **▲** or **▼** button.
Set the ▼ mark above the day of the week to the day to be set for timer setting. Press **▲** and **▼** will move flashing.
If you press the **▲** button when the "▼" marks are displayed on from "MON" to "FRI", and then "SUN" to "SAT" (every day) with flash, this can be used to apply the same schedule on these days.
Press **RESET** button to return to "selecting Weekly timer mode screen", and "TIMER SET" is displayed.
See the above step 3.

- Press **SET** button.
"▼" mark above the day of the week is switched to light, and is fixed.
"SELECT No." is displayed as the left display.
- Press **▲** or **▼** button.
Up to four schedules can be set for each day. Select the timer schedule number you want to set. Set either ON timer or OFF timer for each single operation. (See the left EXAMPLE).
Press **▼** button to make the ◀ mark next to the number flash and move downwards.
Press the **▲** button to move the mark upwards.
 - 1
 - 2
 - 3
 - 4
 Press the **RESET** button to return to step 1 display.



5 Press SET button.
 ◀ mark next to a number is switched to light.
 ON TIMER ▼ or OFF TIMER ▲ is displayed.
 The settings so far are effective and the display buttons to the left diagram.

6 Press ▲ or ▼ button.
 Press ▼ button and OFF TIMER ▲ is displayed.
 Press ▲ button and ON TIMER ▲ is displayed.
 Select either of the above two.
 Press the RESET button to return to the step 3 display.

7 Press SET button.
 SET TIMER is displayed

8 Press ▲ or ▼ button.
 Set the time.
 Press the RESET button to return to the step 5 display.

9 Press SET button.
 Time display is switched to light, and is fixed.
In case of OFF timer setting, setting process is completed on this step.
 A "_" mark is lit (MON → MON) under the day of the week which you set and the display appears as the left diagram.
 Proceed to "Next setting and Exiting Weekly timer Mode" on the right page.
In case of ON timer setting, "TEMP SET ON ▼" is displayed, proceed to step 10.

10 Press ▲ or ▼ button.
 Select either "TEMP SET ON ▼" or "TEMP SET OFF ▲".

11 Press SET button.
In case "TEMP SET OFF ▲" has been selected, ON timer setting process is completed.
 A "_" mark is lit (MON → MON) under the day of the week which you set and the display appears as the left diagram.
 Proceed to "Next setting and Exiting Weekly timer Mode" on the right page.
In case "TEMP SET ON ▼" has been selected, "SET UP" is displayed; Proceed to step 12.

12 Press the temperature setting buttons ▲ or ▼.
 Press the ▲ or the ▼ button to increase or decrease by 1°C.
Set the temperature of operation starting.
 Press the RESET button to return to the display "TEMP SET ON ▼".

13 Press SET button.
ON timer setting with start-up temperature has been completed.
The temperature display switches from flashing to lighting stably.
 A "_" mark is lit (MON → MON) under the day of the week which you set and the display appears as the left diagram.
 Proceed to "Next setting and Exiting Weekly timer Mode" on the right page.

<When "OFF TIMER ▲" is selected>



Next setting and Exiting Weekly timer Mode
 After "SELECT No. ▼" is displayed, "SELECT No. ▼" is displayed.



1 Press ▲ or ▼ button.
 By pressing ▲ or ▼ button, it is possible to choose the item to set.
 "SELECT No. ▼" (selecting the next timer operation number for the same day of the week)
 "DAY SET ▲" (selecting the next day of the week)
 "END ▲" (Timer mode ends)

2 Press SET button.
 In case "SELECT No. ▼" is selected, "SELECT No. ▼" is displayed.
 Repeat step 3 and onward of Weekly timer setting on page 7.
 In case "DAY SET ▲" is selected, "SET DAY" is displayed.
 Repeat step 1 and onward of Weekly timer setting on page 7.
 In case "END ▲" is selected, timer mode is ended.

ATTENTION

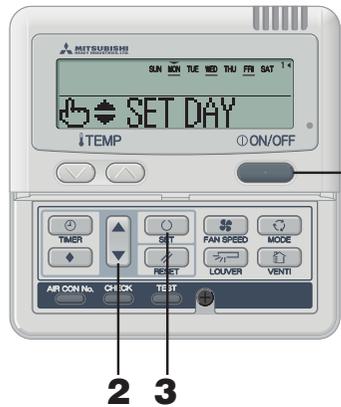
- If you press ON/OFF button while timer mode is operative, timer mode is canceled and the display will return to the original display.
- If you do not press any button for several minutes after entering the timer mode, the timer mode ends and returns to the original display.
- If you select a day of the week for which setting have already been mode, all the timer numbers that have been set are displayed. And the details of the timer setting for the number which has "◀" mark is displayed. You can modify the selected setting by overwriting it.
- In case you set ON timer and OFF timer operating at the same time, OFF timer will be effective.
- If the same two time are set for ON timer on the same day, the lower number shows preference.

Display after Weekly timer Modes Setting

- The day of the week set is underlined.
- The ▼ mark is displayed above the current day of the week.
- The display of all the timer operation numbers set for the current day is turned on. The ◀ mark indicates the next setting number to be activated, and the set time is displayed.
- The timer operations are executed in order, and the number and time display is turned off when all the timer operations for the current day is completed.

Weekly timer Holiday Setting

It is possible to disable the timer settings temporarily which has been already set by applying Holiday Set on a particular day of the week. When the Holiday Setting is cancelled, the timer setting is enabled again.



1 In the Weekly timer mode, select and set

“HOLIDAY SET”.

See “Selection of Weekly timer made” step 1 to 5 on page 7.

“SUN MON TUE WED THU FRI SAT” is displayed in the display area (▼ is flashing)
 “SET DAY” is displayed.

2 Press ▲ or ▼ button.

Move the “▼” mark displayed above the days of week to the day which you want to set as Holiday.

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

If you press the ▲ button when the “▼” marks are displayed on from “MON” to “FRI”, and then “SUN” to “SAT” (every day) with flash. This can be used in case you would like to apply Holiday setting on these days.

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

3 Press SET button.

The “▼” mark above the day of the week switches from flashing to lighting stably, the day set as a holiday is lit with (), and the following is displayed.

[SUN (MON) TUE WED THU FRI SAT] (lit)
 “HOLIDAY SET OK” (lit for two seconds)

[SUN (MON) TUE WED THU FRI SAT] (lit)
 “SET DAY” (lit)

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

NOTICE

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

4 Press ON/OFF button.

Timer mode ends.

Canceling Holiday Setting

ATTENTION

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

1 In the Weekly timer mode, select and set

“HOLIDAY SET”.

See “Selection of Weekly timer made” step 1 to 5 on page 7.

2 Press ▲ or ▼ button.

Move the “▼” mark displayed above the day of week to the day on which you want to cancel Holiday setting.

Select a day of the week that has been set as holiday.

3 Press SET button.

() display is turned off and the following is displayed.

[SUN MON TUE WED THU FRI SAT] (lit)
 “HOLIDAY CANCEL” (lit for two seconds)

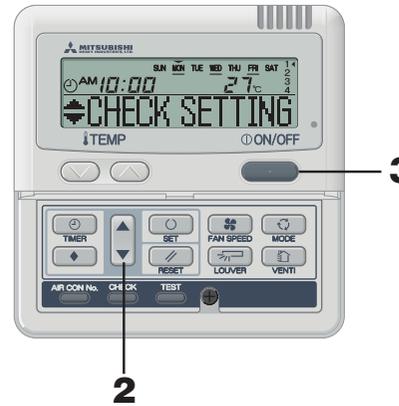
[SUN MON TUE WED THU FRI SAT] (lit)
 “SET DAY” (lit)

After the holiday setting has been canceled, the remote control returns to step 1. Repeat step 2 and 3 to continue canceling further holiday settings.

4 Press ON/OFF button.

Timer mode ends.

Weekly timer Checking



1 In the Weekly timer mode, select and set

“CHECK/CANCEL”.

See “Selection of Weekly timer made” step 1 to 5 on page 7.

The display shows the detailed timer operation setting information of the smallest timer operation number on the day of the week as shown on the left. (But if not set, “NO SETTING” is displayed.)

2 Press ▲ or ▼ button.

Detailed timer operation setting are displayed in accordance with the timer operation you have selected.

Press ▼ button to display from Sunday and the lowest timer operation number.

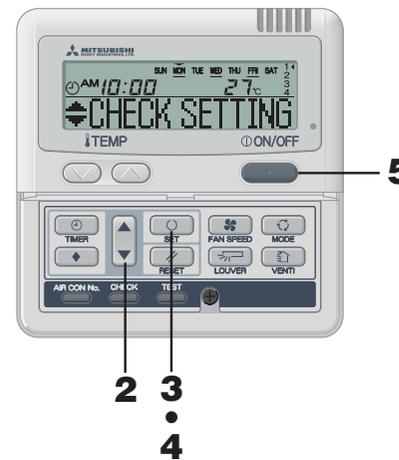
Press ▲ button to display the settings in the reverse order.

3 Press ON/OFF button.

Timer mode ends.

Weekly timer Mode Setting Canceling

It is possible to cancel Weekly timer mode settings of each day of the week and “Timer Cancellation Mode” on page 10 to cancel settings of all days of week.



1 In the Weekly timer mode, select and set

“CHECK/CANCEL”.

See “Selection of Weekly timer made” 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 ▲ or ▼ button.

Detailed timer operation setting are displayed in accordance with the timer operation you have selected.

Press ▼ button to display from Sunday and the lowest timer operation number.

Press ▲ button to display the settings in the reverse order.

Select the timer operation number on a day of the week you want to cancel.

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

3 Press SET button.

“CANCEL?” is displayed.

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

4 Press SET button.

“CANCELLED” is displayed, and the displayed detail timer operation settings disappears and is canceled.

“CHECK SETTING” is displayed again. Repeat step 2 to 4 to continue canceling other settings.

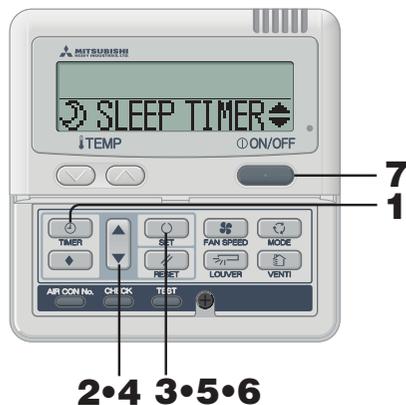
5 Press ON/OFF button.

Timer mode ends.

ATTENTION

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

TIMER CANCELLATION MODE



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

[SUN MON TUE WED THU FRI SAT]
PM 1:00
CLOCK SET

2 Press button for five times.

- CLOCK SET
- SLEEP TIMER (▼ first press)
- OFF TIMER (▼ second press)
- ON TIMER (▼ third press)
- WEEKLY TIMER (▼ fourth press)
- TIMER CANCEL ▲ (▼ fourth press)

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.

- SLEEP TIMER
- OFF TIMER
- ON TIMER
- WEEKLY TIMER ▲ (canceling all days of the week)

Press button, and the displays is switched upwards.

If you press the RESET button, the remote control will return to the previous screen, and display "TIMER CANCEL ▲". (step 2 above)

In case "WEEKLY TIMER ▲" was selected.
All the Weekly timer setting will be canceled if you proceed the following steps.
To cancel a part of the timer setting, please see "Weekly timer Mode Setting Canceling" on page 9.

5 Press SET button.
The settings are displayed as shown below.
(But if not set, "NO SETTING" is displayed)



If you would like to quit cancellation, press the RESET button to return to the "WEEKLY TIMER ▲" display. (step 4 above)

6 Press SET button to confirm.
The day of the week display area turns off, and after the message "CANCELLED" is displayed for two seconds, the display returns to "SLEEP TIMER". (step 4 above)
By this operation settings, for all days of the week are canceled.

7 Press ON/OFF button.
Timer mode ends.

In case "SLEEP TIMER", "OFF TIMER" or "ON TIMER" was selected.

5 Press SET button.
The detailed setting of selected timer mode are displayed as shown below.
(But if not set, "NO SETTING" is displayed)
<Display EXAMPLE when "ON TIMER" is selected>



If you would like to quit cancellation, press the RESET button to return to the "ON TIMER" display. (step 4 above)

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

ATTENTION

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

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 certain period 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 3 2
• •
5 4
• •
7 6
•
8

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" or "CANCEL SILENT ▲" (lights)

3 Press or button.
If button is pressed, "CANCEL SILENT ▲" is displayed.
If button is pressed, "SET SILENT" is displayed.
Select "SET SILENT".
If you press the RESET button, the remote control return to the original screen.

4 Press SET button.
The following setting is displayed.
"PM 5:00" (flashing)
"SET TIMER" (lighting)



5 Press or button.
Set the "ON TIME".

- 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 display increases or decreases by ten minutes.

If you press the RESET button, the remote control return to the "SET SILENT" display.

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

"PM 5:00" (flashing)
"TIMER SET OK" (lit for two seconds)
"OFF" (flashing)
"SET TIMER" (lighting)



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, "OFF" → "4 OFF" → "22 OFF" → "24 OFF"
When you press button, and the duration is decreased by two hours.
If you press the RESET buttons, the remote control return to the "ON TIME SET".

8 Press SET button.
The setting is fixed and displayed.
"SET COMPLETE" is displayed, and the silent mode setting ends.
The setting display turns off, and returns to original display.

■ Canceling Silent Mode (Setting)
Select "CANCEL SILENT ▲" in step 2, press SET button and silent setting is canceled ending the silent mode.
"CANCELLED" is displayed.

NOTICE

- The remote control has main-sub units, silent setting cannot be operated with sub unit.
- After the silent mode is set, the following is displayed for 3 seconds at the set time and the unit returns to the original display.
At the ON time: "SILENT MODE ON"
At the OFF time: "SILENT MODE OFF"
- If you select "24 OFF", you can continue the silent mode until it is canceled. At the first ON time, the display shows "SILENT MODE ON" for three seconds and returns to original display.

• If you press button while silent mode is operative, silent mode is canceled and the display will return to the original display. Note that the setting which has not been completed is canceled.

HOW TO ADJUST THE LOUVER

< 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.



Press

The display during auto swing	SWING	
The display with the louver position fixed	STOP	1
	STOP	2
	STOP	3
	STOP	4

When you operate the swing louver

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



Press

SWING

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

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



horizontal position

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

NOTICE

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

When the position of the swing louver is fixed

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

"SELECT 1 ↔ "SELECT 2 ↔
"SELECT 3 ↔ "SELECT 4

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

Recommended louver fixed position

COOL+DRY	SELECT	1
	SELECT	2
HEAT	SELECT	3
	SELECT	4

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 position is set, the louver will swing within the range between the top and the bottom when swing operation is chosen.

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

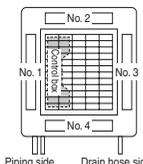


10

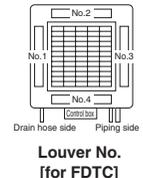
2·4·6·8 1
3·5·7·9

NOTICE

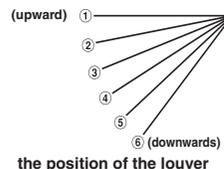
- For FDT and FDTC type, in case the louver No. to be set is uncertain, set any louver temporarily. The louver will swing once when the setting is completed and it is possible to confirm the louver No. and the position. After that, choose the correct louver No. and set the top and bottom position.
- For FDE and FDK type, set louver No. 1. For FDFW type, set louver No. 2. Other settings selected have no effect.



Louver No. [for FDT]



Louver No. [for FDTC]



the position of the 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.

"DATA LOADING "

"No.1

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

"SELECT I/U "

"I/U000



- 2 Press or button.(selection of indoor unit)

Select the indoor unit of which the louver is set.

[EXAMPLE]

"I/U000 ↔ "I/U001 ↔ "I/U002 ↔ "I/U003

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

Selected indoor unit is fixed.

[EXAMPLE]

"I/U001 " (lit for two seconds)

"DATA LOADING "

"No.1



- 4 Press or button. (selection of louver No.)

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

[EXAMPLE]

"No.1 ↔ "No.2 ↔ "No.3 ↔ "No.4

Note : For FDE and FDK, select "No.1 ". For FDFW, select "No.2 ". Other louver No. settings have no effect.

- 5 Press SET button. (Determination of louver No.)

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

[EXAMPLE] If No.1 louver is selected,

"No.1 UPPER2 ← current upper limit position

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

Select the upper limit of louver movable range.

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

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

"No.1 UPPER1 (The most horizontal)

↔ "No.1 UPPER2

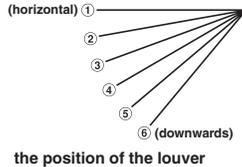
↔ "No.1 UPPER3

↔ "No.1 UPPER4

↔ "No.1 UPPER5

↔ "No.1 UPPER6 (The most downward)

↔ "No.1 UPPER- (Return to the position of shipment)



7 Press [SET] button (Fixing of the upper limit position)

The upper limit position is fixed and the setting position is displayed for two seconds. Then proceed to lower limit position selection display.

[EXAMPLE]
"No.1 UPPER2" (lit for two seconds)
↓
"No.1 LOWER5" (shows current setting)

8 Press [▲] or [▼] button (Selection of lower limit position)

Select the lower limit position of louver.
"position 1" is the most horizontal, and "position 6" is the most downwards.
"position --" is to return to the factory setting. If you need to change the setting to the factory setting, use "position --".

"No.1 LOWER1" (the most horizontal)
⇔ "No.1 LOWER2"
⇔ "No.1 LOWER3"
⇔ "No.1 LOWER4"
⇔ "No.1 LOWER5"
⇔ "No.1 LOWER6" (the most downwards)
⇔ "No.1 LOWER--" (return to the position of shipment)

9 Press [SET] button (Fixing of the lower limit position)

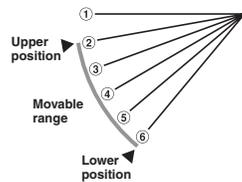
Upper limit position and lower limit position are fixed, and the set positions are displayed for two seconds, then setting is completed.
• After the setting is completed, the louver which was set moves from the original position to the lower limit position, and goes back to the original position again. (This operation is not performed if the indoor unit and/or indoor unit fan is in operation.)

[Example]
"No.1 U2 L6" (lit for two seconds)
↓
"SET COMPLETE"
↓
"No.1" (return to the position of shipment)

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



[EXAMPLE] For Upper position 2, Lower position 6



Note : If the upper limit position number and the lower limit position number are set to the same position, the louver is fixed at that position. And auto swing does not function.

NOTICE

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

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.

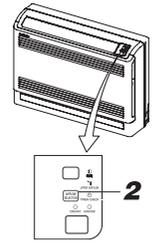
<WIRED REMOTE CONTROL>

1. Stop the air conditioner.
2. Set the upper and lower limit position of the louver No.1 from the wired remote control.
For the method of changing the setting, refer to **HOW TO SET THE AIRFLOW DIRECTION** on page 11.
 - ① In case of selecting to upper airflow.
Set the upper and lower limit position to UPPER 2 and LOWER 2. (No.1 UPPER 2 / LOWER 2)
 - ② In case of selecting to upper and lower airflow.
Set the upper and lower limit position to UPPER 5 and LOWER 5. (No.1 UPPER 5 / LOWER 5)

<WIRELESS REMOTE CONTROL>

AIR SELECTION button can switch the air outlets.

1. Stop the air conditioner.
2. Select the airflow from AIR SELECTION button on the unit display.
 - ① In case of selecting to upper airflow.
Press the AIR FLOW SELECTION button once.
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 by pressing AIR FLOW SELECTION button, press AIR FLOW SELECTION button once again.
UPPER AIR FLOW LED will turn off.



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

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



VENTILATION OPERATION NOT LINKED WITH UNIT'S OPERATION

- 1 Press [VENTI] button.
"VENTI" is displayed, and the ventilation operation begins.

Stop Press [VENTI] button again.

NOTICE

- If no ventilator is connected, no operation can be performed by pressing the ventilation button. ("INVALID OPER" is displayed).

VENTILATION OPERATION LINKED WITH UNIT'S OPERATION

- 1 Press [ON/OFF] button.
If a ventilator is connected, ventilation will operate automatically.
"VENTI" is displayed.

Stop Press [ON/OFF] button again.

NOTICE

- No operation can be performed by pressing the ventilation button. ("INVALID OPER" is displayed).

FOR COMFORTABLE USE

Clean the filter frequently
See page 16

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.
 - Dew may form 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 airflow 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.

INSPECTION DISPLAY, FILTER SIGN, AIR CONDITIONER NUMBER, STANDBY, ROOM TEMPERATURE AND BACK UP DISPLAY

< WIRED REMOTE CONTROL >

WHEN THE CHECK INDICATOR LIGHT (RED) FLASHES



The air conditioner stops in the event any trouble occurs.

At the same time, the check indicator light flashes in red and the error code is displayed in the ON timer display area and the following is displayed in the display area.

170000 070000 ↔ "PROTECT STOP"
(Air conditioner number)

(lights for 2 seconds by turns)

ERROR display when multiple indoor units are connected

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



1 Press AIR CON No. button.
Enter AIR CON No. display mode.

2 Press ▲ button.
AIR CON No. and error codes are displayed in order from the lowest. Press ▼ button to display in the reverse order.

3 Press ○ ON/OFF button.
Return to the AIR CON of the lowest number.

If errors have occurred for some of the connected AIR CON units.

Only the units for which errors have occurred stop operating. The remote control shows the operating units.



1 Press AIR CON No. button.
AIR CON No. display mode appears.

2 Press ▲ button.
AIR CON No. are displayed in order from the lowest. And error codes are displayed on the unit in trouble. Press ▼ button to display in the reverse order.

3 Press ○ ON/OFF button.
Return to the AIR CON of the lowest number.

NOTICE

- If ○ ON/OFF button is pressed once while errors are displayed, the errors display is turned off, and return to the stop mode. If ○ ON/OFF button is pressed again, the errors are displayed.

ROOM TEMPERATURE DISPLAY

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



The room temperature display

WHEN THE FILTER CLEANING MESSAGE IS DISPLAYED



The "FILTER CLEANING" is displayed when the cumulative operation time reaches set amount number of hours in order to notify the time for cleaning.

Clean the air filter. See page 16 "FILTER CLEANING" is displayed in the display area. It is displayed for one second every five seconds while the unit is running. It is always lit while the system stopped.

After cleaning

1 Press RESET button.
The cumulative operation hours is reset and the "FILTER CLEANING" message turns off.

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.



1 Press AIR CON No. button.
AIR CON No. display mode appears and the AIR CON of the lowest number is displayed. Other displays all turn off.

2 Press ▲ button.
AIR CON No. are displayed in order from the lowest. And error codes are displayed on the units which have suffered from failure in the past. Press ▼ button to display in the reverse order.

3 Press ○ ON/OFF button.
Return to the original display.

NOTICE

- The AIR CON No. can be displayed without relation to its modes of operation, stop, forcible stop due to an error.
- Buttons other than "AIR CON No." "▲" "▼" "ON/OFF" cannot be operated.

STANDBY DISPLAY

During the first operation after breaker power supply input or the recovery from power failure, "PREPARATION" can be displayed on the remote control for max 30 minutes.

The refrigerant oil protection control is activated to protect the compressor and this isn't a failure. Please wait till the display turns off.



BACK UP DISPLAY

If the back up display appears on the screen, Please contact the dealer where the unit was purchased.

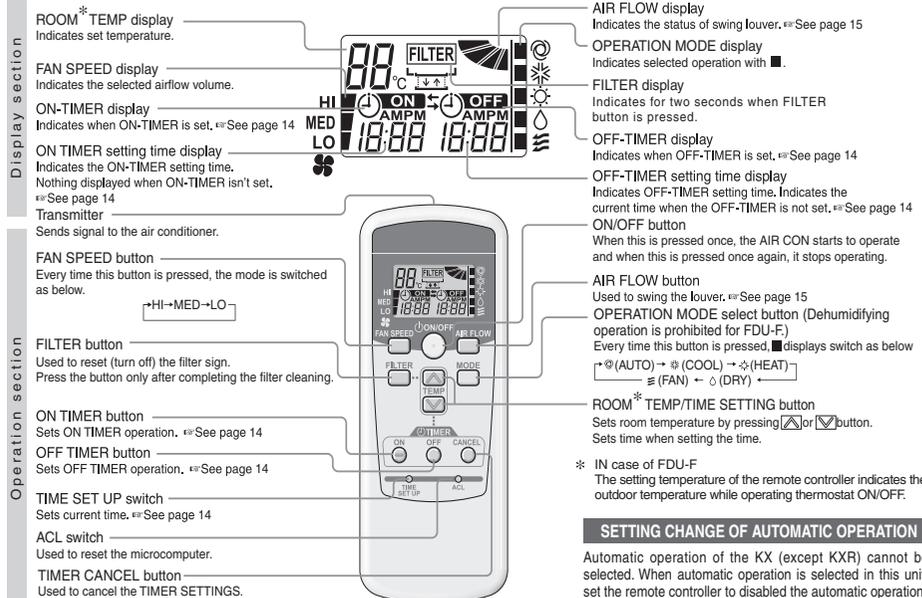
The back up display is indicated per 1 second at intervals of 5 seconds when the air conditioners is in operation.



NAMES AND FUNCTIONS OF REMOTE CONTROL BUTTON <WIRELESS REMOTE CONTROL>

WIRELESS REMOTE CONTROL

All displays are described in the liquid crystal display for explanation



* IN case of FDU-F
The setting temperature of the remote controller indicates the outdoor temperature while operating thermostat ON/OFF.

SETTING CHANGE OF AUTOMATIC OPERATION

Automatic operation of the KX (except KXR) cannot be selected. When automatic operation is selected in this unit, set the remote controller to disabled the automatic operation. While pressing the [MODE] button and then press the [ACL] switch, or while pressing the [MODE] button and then insert the batteries to the remote controller, then it has been disabled the automatic operation.

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

WIRELESS REMOTE CONTROL HANDLING PROCEDURE

REPLACING THE BATTERIES

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

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

1 Pull out the cover.

2 Replace the old batteries with new ones. (R03×2)



3 Close cover.

4 Adjust the current time. See page 14

When any error occurs on the display, Press [ACL] switch with a ballpoint etc.

NOTICE

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

How to set Radio Interference Prevention Setting

It is possible to set two way. Press [ACL] switch with [AIR FLOW] button kept pressing or Insert the batteries with [AIR FLOW] button kept pressing.

ATTENTION

- Do not use old and new batteries mixed.
- Remove the batteries when the remote control is not used for a long time.
- The recommendable effective period of a battery is about 6 to 12 months. (It depends on the usage.)

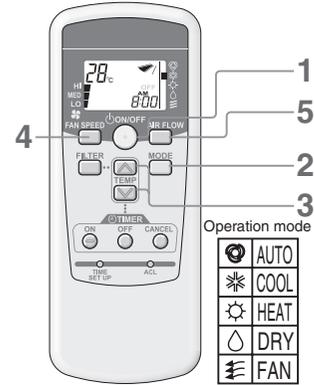
- The recommendable effective period is printed on the battery. This may be shorter due to manufacturing time of the unit.
- However the battery may be still working in order after expiry date.

When the batteries are inserted, each operation mode is set as the right figure. Adjust the current time referring to page 14. (The figure is for operation, and only the current time is displayed for stopping)



HOW TO OPERATE (Dehumidifying operation is prohibited for FDU-F.)

- ATTENTION**
- Turn on the power supply of both indoor/outdoor units for six hours before starting the unit to protect the units. (The crankcase is conducted and the compressor is heated) Do not turn off the power supply. (The crankcase heater is conducted while the compressor is stopped, preventing failure of the compressor due to accumulation of liquid refrigerant by keeping the compressor warm.)
 - The operation of remote control must be performed slowly and steadily.



OPERATION

1 Press ON/OFF button.

The operation display light (Green) turns on, and the operation starts. The setting status is displayed on the liquid crystal area on the remote control.

2 Press MODE button.

Current operation mode is indicated with the ■ marks besides the operation mode icons. The mode will change in the following order by pressing the button.

⊙(AUTO)* → ❄️(COOL) → ❄️(HEAT) →

⊙(AUTO)* → ❄️(COOL) → ❄️(HEAT) →

3 Press TEMP button.

Set the room temperature by pressing or button.*

* IN case of FDU-F

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

4 Press FAN SPEED button.

→ HI → MED → LO → FAN SPEED can be changed in order.

5 Press AIR FLOW button.

Effective AIR FLOW direction see page 15

AUTO mode operation..... Intermediate

Cooling, dehumidifying mode... Horizontal

Heating mode..... Downwards

Guideline of room temperature setting

COOL.....26 to 28°C

DRY.....21 to 24°C

HEAT.....22 to 24°C

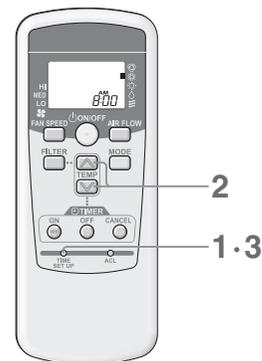
FAN.....TEMP setting is unnecessary

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

Stop 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.



[EXAMPLE] AM (morning) 8:00 setting

1 Press TIME SET UP switch.

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

2 Press or button to adjust to AM 8:00.

Morning : AM After noon : PM
The displayed time changes by 1 minutes when pressing the button.

- If or button is pressed during the blinking, fast-forward or fast-backward can be done.

NOTICE

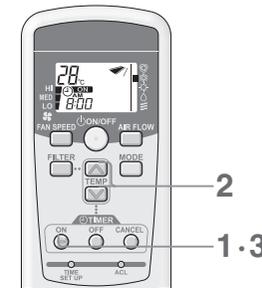
- In case the buttons are not pressed for 60 seconds, the displayed time is set as current time without step 3.

3 Press TIME SET UP switch.

The display changes from blinking to steady lighting and the setting is completed.

ON – TIMER OPERATION

Operation is started at the setting time.



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

1 Press ON timer button.

ON timer display blinks.

2 Press or button to adjust to AM 8:00.

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

3 Press ON timer button.

- ON timer display changes from blinking to steady lighting and the setting is completed. (Press within 60 seconds)
TIMER/CHECK display lamp of the air conditioner is lit. (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.

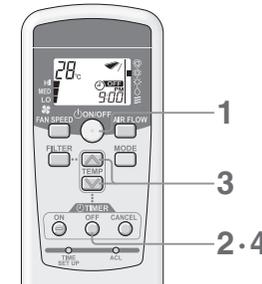
Time change

Press ON TIMER button to set again.

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

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

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 changes from blinking to steady lighting and the setting is completed. (Press within 60 seconds)
TIMER/CHECK display lamp of the air conditioner is lit. (The receiving part of indoor unit)
- At PM 9:00, TIMER/CHECK display lamp turns off and the air conditioner will stop operating.

Cancellation

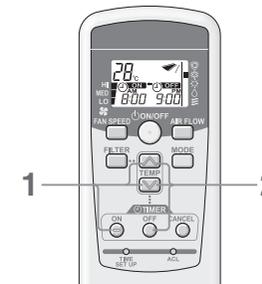
- Press CANCEL button to turn off the TIMER display and timer is canceled.
- After TIMER setting, if ON/OFF button is pressed before the setting time, TIMER display turns off and the TIMER is canceled.

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.

(stop) (operating)

Cancellation

- Press CANCEL button to turn off the PROGRAM timer display and timer is canceled. (Operation condition is kept as before the button is pressed.)
- If ON/OFF button is pressed during TIMER operation, TIMER display turns off and the TIMER is canceled. The air conditioner stops operating.

Changing the set time

Press OFF TIMER button or ON timer button to set again.

NOTICE

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

HOW TO ADJUST THE LOUVER

< WIRELESS REMOTE CONTROL >

UP AND DOWN ADJUSTING

How to move swing louver

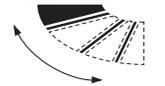


Press AIR FLOW button when the air conditioner is in operation.

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

NOTICE

The actual movement of swing louver and that of display are not synchronized but this is not a failure.



continuous movement of display

To fix the position of the swing louver

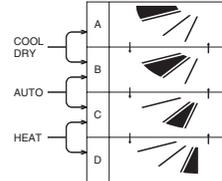
Press AIR FLOW button when the louver position indication comes to the position where you would like to fix it.

- 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)

Recommended air flow direction position (when fixed)



The swing louver movement during heat preparation



horizontal position

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.

ATTENTION

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

FOR COMFORTABLE USE

See page 12

CHECK INDICATION, FILTER SIGN

< WIRELESS REMOTE CONTROL >

WHEN SHORT FLASHING LIGHT (Light for 0.5 second, wink out for 0.5 second) IS SHED FROM THE TIMER/CHECK INDICATOR LAMP (YELLOW)

Something is wrong with the air conditioner.

- Immediately after the timer/check indicator lamp flashes (light for 0.5 second, wink out for 0.5 second), the air conditioner stops.
- Address No. and error code are shown on the display on the indoor unit.
- The monitor display is turned off after the display time.
- When nothing is displayed on the monitor, operate the remote control or press the BACKUP button resume.

Please tell your dealer "address No. and error code", "symptom of the trouble", "air conditioner type" and "model name" etc.

NOTICE

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

WHEN LONG FLASHING LIGHT (Light for 2 seconds, wink out for 1 second) IS SHED FROM THE TIMER/CHECK INDICATOR LAMP (YELLOW)

Clean the filter.

See page 16, 17

- When cumulative running time reaches amount number of hours, long flashing light (light for 2 seconds, wink out 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

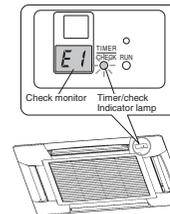
The cumulative running time for filter sign can be changed. Consult your dealer for more information.

Detail of display

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

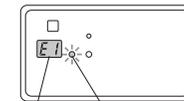
Ceiling cassette-4 way-(FDT)

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



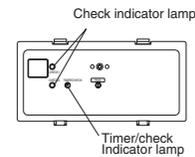
Check monitor
Timer/check Indicator lamp

Ceiling suspended (FDE)



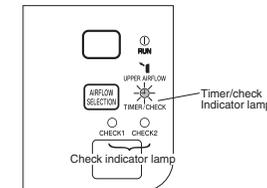
Check monitor
Timer/check Indicator lamp

Ceiling cassette - 2 way (After FDTW-KXE6F)



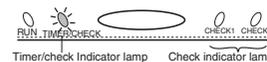
Check indicator lamp
Timer/check Indicator lamp

Floor standing -2way- (FDFW)



Timer/check Indicator lamp
Check indicator lamp

Wall mounted (FDK)



Timer/check Indicator lamp
Check indicator lamp

NOTICE

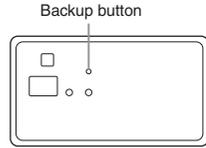
For FDTW, FDK and FDFW, check indicator lamp "check1" / "check2" shows error code.

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

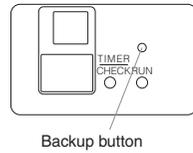
BACKUP BUTTON

In time of battery exhausted, lost, trouble of remote control, the air conditioner can be operated with the BACKUP button on the indoor unit display part.

Ceiling suspended (FDE)

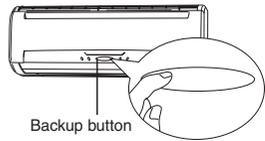


Ceiling cassette-4 way-(FDT) Ceiling cassette-4 way Compact (600x600mm)-(FDTC)

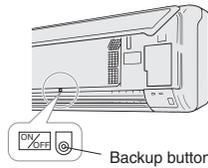


Wall mounted (FDK)

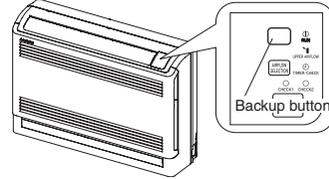
• FDK22-56



• FDK71



Floor standing -2way- (FDFW)



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

ON/OFF

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

SETTING

OPERATION MODE..... AUTO	FAN SPEED..... HI
TIMER No setting	SET TEMP..... 23°C
AUTO SWING..... STOP (HORIZONTAL)	

HOW TO MAINTAIN

How to clean the Air Filter

Clean the filter frequently for economical operation.

- Caution** Before cleaning, stop the operation and turn off the power supply.
Otherwise, it may lead to injury as fan inside rotates at high speed.
- Caution** The stepladder used for removing and attaching the air filter must be fixed firmly.
Otherwise, it may lead to injury due to overturn or fall.
- Caution** Be careful so that the dust does not get into your eyes when removing the air filter.
- Caution** Do not operate the air conditioner while the air filter is removed.
Piled up dust may lead to malfunction.

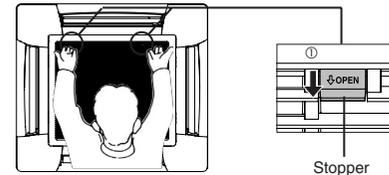
How to remove

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

Ceiling cassette -4 way- (FDT)

• How to handle inlet grille/filter

Removal



<How to remove the grille>

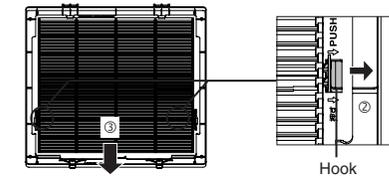
- Hold the stopper on the inlet grille (2 places) to the "OPEN" direction (arrow mark ①), then pull down to open the grille.
Remove the hook of the grille to dismount.

<How to remove the filter>

- Push the hook of the grille in the indicated direction (arrow mark ②) to release. Then slide the filter in the indicated direction (③) to remove.

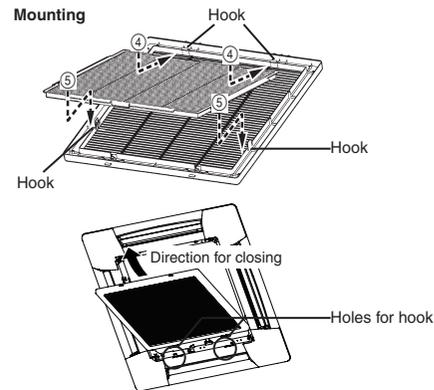
<How to mount the filter>

- Ensure the right side and orientation of the filter and insert it to the arrow direction (④) so that the notch on the filter is hooked on the hook on the grille (2 places).
- Align the hole on the filter with the hook on the grille (⑤ 2 places) and push it securely until the filter is caught by the hook.



The direction of filter removal

Mounting



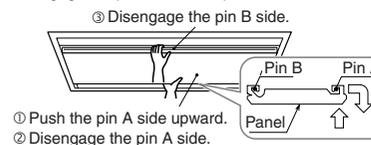
<How to mount the grille>

- Hang the hook on the hole on the panel. (The hook on the grille can be hanged 3 sides on the panel.)
- After the grille is hanged, close the grille while the stopper on the grille (2 places) is kept pressed to "OPEN" direction. When the grille comes to the original position, release the stopper to hold the grille.

- 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.

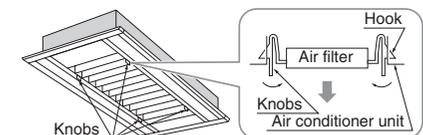
Ceiling cassette -2 way- (FDTW-KXE6D)

- Push one side of the inlet panel (pin A side) upward.
- Disengage the panel from pin A.
- Disengage the panel from the pin B and remove the panel.
③ Disengage the pin B side.



- Push the pin A side upward.
- Disengage the pin A side.

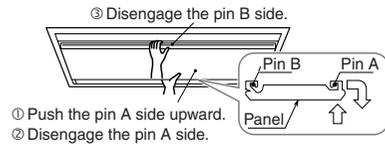
- Press the knobs of the air filter inward, remove the hook area from the air conditioner unit, and remove the air filter.



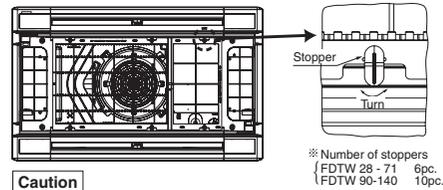
HOW TO MAINTAIN

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.



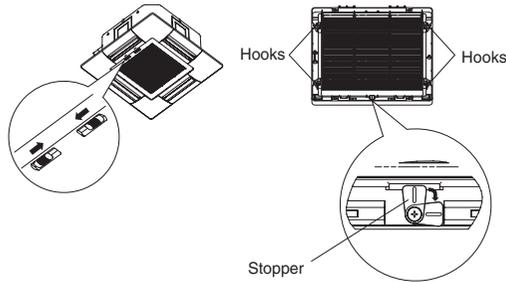
4. Press the air filter and turn the stopper to remove the air filter.



Caution

Install the air filter in the correct order.

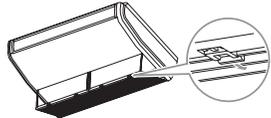
Ceiling cassette –4 way Compact (600 x 600 mm)– (FDTC)



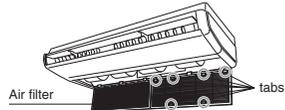
1. Slide the inlet grille levers in the direction of the arrow (⇒), and open it downwards.
2. Turn the inlet grille stopper.
3. Pull the filter toward you.
4. When the filter is put in place, insert the filter into the hooks on the inlet grille, and be sure to return the stopper to its original position.
5. When putting the inlet grille back in place, slide the levers in the opposite direction and check to be sure that the grille does not come open.

Ceiling suspended (FDE)

1. Slide the lever of the inlet grille backward (⇒ direction) and open it downwards.
2. Pressing the inlet grille, press the filter to remove it from the tab and pull it downwards.



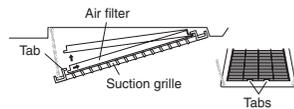
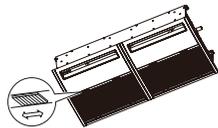
When mounting, press the lever forward until it snaps.



When mounting, snab the filter into the tabs of inlet grille.

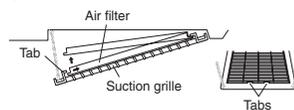
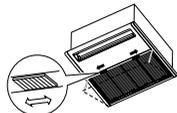
Ceiling cassette –1 way– (FDTS)

1. Slide the lever of the suction grille in the arrow (⇒) direction to open the grille.
2. While light pushing up, remove the filter from the tabs at the left and right, and pull towards the front.



Ceiling cassette –1 way compact– (FDTQ)

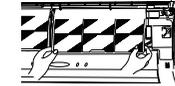
1. Slide the lever of the suction grille in the arrow (⇒) direction to open the grille.
2. While light pushing up, remove the filter from the tabs at the left and right, and pull towards the front.



HOW TO MAINTAIN

Wall mounted (FDK)

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



Floor standing -2way- (FDFW)

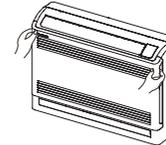
<How to open, close the inlet panel>

Open

Place fingers at the recesses on both sides of the panel and pull down the panel forward so that it will be open by about 15°.

Close

Push both ends evenly and press further lightly at the center.



<How to remove, install the filter>

Remove

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

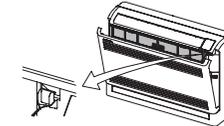
<How to remove, install the inlet panel>

Remove

When removing the panel for internal cleaning or others, open the panel, remove the string and then pull it forward.

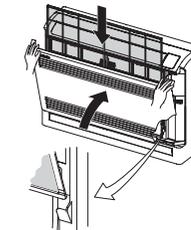
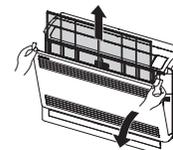
Install

Secure the upper edge of the panel by lightly pushing it in, place the string as illustrated and then close the panel.



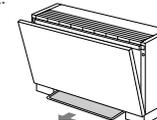
Install

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



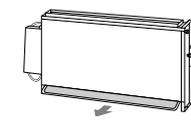
Floor standing (with casing) (FDFL)

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



Floor standing (without casing) (FDFU)

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



- Duct connected –High static pressure– (FDU)
- Duct connected –Middle static pressure– (FDUM)
- Duct connected (Ultra thin) –Low static pressure– (FDQS)
- Duct connected –Compact & Flexible– (FDUH)
- Duct connected –High static pressure Out door Air processing unit (FDU -F)
- Duct 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.

HOW TO MAINTAIN

How to clean

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

ATTENTION

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

MAINTENANCE OF THE UNIT

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

AT THE END OF THE SEASON (after a long period of use)

- Clean the air filter and mount it.
- Clean the indoor/outdoor units.

AT THE BEGINNING OF THE SEASON (after a long unused period)

- 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.**

TROUBLE SHOOTING

Check the following items before requiring service.

THE UNIT DOES NOT WORK AT ALL

Is the power supply switch turned off?



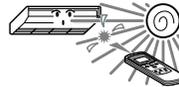
Is there a blackout or is the fuse blown?



Is the leakage breaker activated?

Dangerous. Immediately turn off the power supply switch, and contact your dealer.

Is sunlight or other strong illumination striking the receive unit? (wireless unit)



POOR COOLING OR HEATING

Is the air filter clogged?



Is the swing louver horizontal (during heating)?

If the swing louver is horizontal, the airflow may not reach down to the floor.



Are there any obstacles blocking the air inlet and outlet grill?



POOR COOLING

- Is the direct daylight coming into the room?
- Are there any unexpected heat sources in the room?
- Are there too many people in the room?

NO AIRFLOW AT HEATING

Is the unit in the heating preparation mode?

☞ See page 18



If, after checking the items above, the air conditioner still does not operate normally or in the next cases, stop operating and contact your dealer.

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

The phenomena mentioned below is not malfunction.

The air conditioning system sounds as if water is draining from it.	Sounds of rustling or gurgling may be heard when the operation is started, when the compressor is activated/deactivated during operation, or when the operation is stopped. These are the sounds of the refrigerant flowing through the system.
Sounds of rustling or gurgling may be heard from a stopped indoor unit.	These sounds can be heard when the air conditioning system is performing automatic control.

TROUBLE SHOOTING

The phenomena mentioned below is not malfunction.

The supply air from the indoor unit smells bad.	The supply air from the indoor unit may smell bad if the smell of cigarettes, cosmetics and/or furniture has saturated the air conditioning system.
White vapor is generated from the indoor unit during operation.	White vapor may be generated during operation if the system is used in environment where oils and fats are frequently used, such as in restaurants. In this case, consult the dealer and clean the heat exchanger.
The operation switched to fan operation during cooling operation.	The operation may switch to fan operation automatically in order to avoid frost being built up on the surface of the heat exchanger. The operation will soon return to cooling operation.
The operation switched to fan operation during cooling operation.(in case of FDFW type)	In case the relative humidity is 73% or higher, the operation may alternate between fan operation and cooling operation even though the thermostat has not been activated. The objective of this operation mode is to prevent condensate dew formation and dew dropping from indoor unit air supply port.
The indoor fan does not stop even when the operation is stopped in heating mode.	The indoor unit fan may continue operating for 40 seconds in order to remove remaining heat in the indoor unit. REQUESTS Do not turn off the power supply until the fan stops.
The air conditioning system cannot start operating again immediately after stopping.	During the first 3 minutes after stopping operation, it is not possible to perform cooling, dehumidifying or heating operation even if the ON/OFF button is pressed to indicate "operation." This is because a circuit for protecting the compressor is activated (the fan is operating during this period).
No air comes out during dehumidifying operation. The airflow volume cannot be changed.	During dehumidifying operation, the fan speed is automatically controlled in low speed/stop cycle in order to avoid both drastic temperature drop and humidity rise.
The swing louver moves without any operation.	The swing louver automatically swings twice when the power supply switch is turned on. This is not a trouble. The louver also moves automatically to the horizontal position when "PREPARATION OF HEATING" is displayed.
The outdoor unit discharges water or steam during heating operation.	Water or steam is discharge during defrosting operation which removes frost built up on the surface of the heat exchanger in the outdoor unit in heating mode.
The operation mode cannot be selected (in case of the heat recovery system KXR).	When operation mode is set to the main and sub indoor unit during the heat recovery system KXR, operation mode of the sub unit cannot be selected.(In this case, the system conforms to operation mode of the main unit.)
The outdoor unit fan is not running even when the system is in operation.	The fan speed is automatically controlled according to the ambient temperature. It may be stopped in high ambient temperature in case of heating, and in low ambient temperature in case of cooling. Also, the fan is stopped during defrosting operation. REQUESTS The fan will suddenly begin to operate even if it is stopped. Do not insert finger and/or stick.
Slapping sounds are heard.	These sounds are generated when plastic components are expanded or shrunk by the heat and rubbed with each other.
Hissing sounds are heard when the operation is stopped or during defrost operation.	These sounds are generated when the refrigerant valve inside the air conditioning system is activated.
The air conditioner starts operation automatically as soon as the power supply is turned on.	In case the automatic restart function is enabled, and when the power supply recovers, the system restarts the operation automatically as same condition as before power supply is cut. ☞ See below
The setting temperature cannot be changed (the setting temperature display flashes).	If changing the set temperature is prohibited on the remote control, it is not possible to change the temperature setting even ▼ or ▲ is pressed. ☞ See right
The airflow becomes weak if the operation mode is changed during operation (in case of the heat recovery system KXR).	When you switch the operation mode from Cool to Heat or from Heat to Cool during operation, the airflow becomes weak for 3 minutes.
In case of wireless remote control, the unit does not operate with the inspection display light on the indoor unit flashing even though any button on the remote control is pressed.	In case the system is controlled by the other centralized remote control and it forbids operating the system from the remote control, it is not possible to operate by the remote control.

PREPARATION OF HEATING

CASES WHEN “(PREPARATION OF HEATING)” IS DISPLAYED

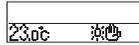
“(PREPARATION OF HEATING)” is displayed in the remote control display area in the following cases.

For wireless devices, the run/check display lamp on the main body display unit will flash green.

Setting temperature and preparation of heating are displayed on the wired remote control.

At Starting Heating Operation

In order to prevent cool air from blowing out, the airflow into the room may be stopped depending on the room temperature at the start of heating operation, please wait for a while and the operation automatically switches to the normal heating operation.



At defrost operation (during heating operation)

When frost may easily formed on the outdoor unit, the heating operation automatically is stopped (both indoor/outdoor unit stop fan operation) for approximately 5 to 10 minutes per hour and defrosting is operated. After the defrosting is complete, the operation automatically switches back to the normal operation.



HEATING OPERATION

Heat pump type

Heat pump type heating is the heating mechanism in which the refrigerant takes in outer temperature to supply heat into the room.

Defrost operation

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

Outer air temperature and heating capacity

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

Time required until the room temperature increases

A heat type air conditioner circulates warm air to warm the entire room, so it takes a while to rise up the room temperature. It is recommended to start operation earlier on a very cold day.

When room temperature adjusting device operates during heating

If room temperature rises and the room temperature adjusting device is activated, the airflow becomes automatically low. When the room temperature drops, it switched back automatically to the normal operation.

AUTO RESTART <WIRED REMOTE CONTROL>

NOTICE

The remote control has a auto restart function, and can be activated. (Inactivated at shipment).Consult your dealer.

What is auto restart

When a power failure occurs or the power supply is turned off, the function allows the system to automatically resume operation with the remote control setting made set before the power failure when the power supply recovers. If the system is stopped before power failure it remains stopped after the power recover.

Note that in the following cases it is needed to set again with the remote control.

⓪Timer setting is cancelled. But the sleep timer recovers after power failure recover. Weekly timer settings, however, recover with all days holiday setting. And time setting returns to default. To return to original setting, after time setting, execute “holiday cancel”.

⓪Louver stops at the horizontal position.

ATTENTION

When the auto restart is activated, be sure to stop operation and turn off the power supply. (if the power supply is turned off while the system is operating, the fan of the indoor unit will begin rotating immediately after the power supply is turned on. And the outdoor unit will start operating approximately 3 minutes after it is ON.)

SETTING TO DISABLE BUTTON OPERATION <Wired remote control>

ATTENTION

The following button operations can be disabled. If the button is pressed, “INVALID OPER” is displayed provided the button is disabled, and returns to original display. Consult your dealer for “INVALID OPER” setting.

- ⓪ ON/OFF button
- ⓪ TEMP button
- ⓪ LOUVER button
- ⓪ MODE button
- ⓪ FAN SPEED button
- ⓪ TIMER button

INSTALLATION, RELOCATION, AND INSPECTION MAINTENANCE

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, never try to do so 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 noise.

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 work is not good, it may lead to electric shock.



⚠ Caution : Make sure to mount a leakage breaker

If it is not mounted there, it may lead to electric shock.

Electrical installation work must be performed by an electrical installation service provider qualified by a power provider of the country. Electrical installation work must be executed according to the technical standards and other regulations applicable to electrical installations in the country.

■ Is the wiring designated for the air conditioner?

■ Is the remote control mounted correctly?

- In the case of exposed wiring, is the wiring fixed with the attached screw?
- Is the attached remote control clamps 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 for relocation and installation.

INSPECTION MAINTENANCE

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

OPERATION RANGE

ATTENTION

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

Condition Operation	Room temperature	Temperature outside the room	Humidity inside the room
Cooling operation Dry operation	Approximately 21 to 32°C Long continuous operation under approximately 21°C may lead to malfunction due to dewfall	Approximately -15 to 43°C	Approximately 80% or less Long operation under high humidity may leads to waterdrop or smoky vapor at the supply air grille.
Heating operation	Approximately 27°C or less	Approximately -20 to 21°C If outside air temperature becomes low, the heating efficiency is lowered and the heating becomes difficult.	

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

FDU-F

Condition Operation	Outdoor air temperature
Cooling operation	20 ~ 40°C (32°C wet-bulb) Dry-bulb
Heating operation	-10 ~ 24°C Dry-bulb



AIR-CONDITIONING & REFRIGERATIONS DIVISION

3-1, Asahi, Nishibiwajima-cho, Kiyosu, Aichi, 452-8561, Japan
<http://www.mhi.co.jp>

mitsubishi heavy industries air-conditioning europe, ltd.

7 Roundwood Avenue, Stockley Park, Uxbridge, Middlesex, UB11 1AX, United Kingdom
Tel : +44-20-7025-2750
Fax : +44-20-7025-2751
<http://www.mhia.com>

mitsubishi heavy industries air-conditioners australia, Pty. Ltd.

9C Commercial Road Kingsgrove NSW 2208 PO BOX 318 Kingsgrove NSW 1480
Tel : +61-2-8571-7977
Fax : +61-2-8571-7992
<http://www.mhiao.com.au>

mitsubishi heavy industries - MAHAJAK AIR CONDITIONERS CO., LTD.

220, Soi Chalongkrung 31,
Kwang Lamplatiw, Khet Lad Krabang, Bangkok 10520, Thailand
Tel : +66-2-326-0401
Fax : +66-2-326-0419
<http://www.maco.co.th/>