

# USER'S MANUAL

## PACKAGED AIR CONDITIONER

### Floor Standing (FDF)

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**

РУКОВОДСТВО ПО ЭКСПЛУАТАЦИИ **РУССКИЙ**

KULLANIM KILAVUZU **TÜRKÇE**

- ※ Please refer to the manual provided with WIRED REMOTE CONTROL (RC-EX series) and WIRELESS REMOTE CONTROL (RCN-E2 series)
- ※ Veuillez vous référer au manuel fourni avec la TÉLÉCOMMANDE FILAIRE (série RC-EX) et la TÉLÉCOMMANDE SANS-FIL (série RCN-E2)
- ※ Siehe bitte die mit KABEL-FERNBEDIENUNG (RC-EX-Serie) und DRAHTLOSE FERNBEDIENUNG (RCN-E2-Serie) mitgelieferte Bedienungsanleitung

- ※ Consultare il manuale in dotazione con TELECOMANDO CABLATO (serie RC-EX) e TELECOMANDO SENZA FILI (serie RCN-E2)
- ※ Consulte el manual suministrado con el MANDO A DISTANCIA ALÁMBRICO (serie RC-EX) y el MANDO A DISTANCIA INALÁMBRICO (serie RCN-E2)
- ※ Raadpleeg de handleiding die is meegeleverd met de BEDRADE AFSTANDBEDIENING (RC-EX-reeks) en DRAADLOZE AFSTANDBEDIENING (RCN-E2-reeks)

- ※ Consulte o manual fornecido com o CONTROLO REMOTO COM FIOS (série RC-EX) e o CONTROLO REMOTO SEM FIOS (série RCN-E2)
- ※ Пожалуйста, обратитесь к руководству, которое поставляется с ПРОВОДНЫМ ПУЛЬТОМ ДИСТАНЦИОННОГО УПРАВЛЕНИЯ (серия RC-EX) и БЕСПРОВОДНЫМ ПУЛЬТОМ ДИСТАНЦИОННОГО УПРАВЛЕНИЯ (серия RCN-E2)
- ※ Lütfen kablolu uzaktan kumandalı olan (RC-EX serisi) ve kablolu uzaktan kumandalı olan (RCN-E2 serisi) modelin kılavuzuna bakınız.



This product complies with following directives/regulations

EU		GB	
MD	2006/42/EC	SMR S.I.	2008/1597
LVD	2014/35/EU	EER S.I.	2016/1101
EMC	2014/30/EU	EMC S.I.	2016/1091
PED	2014/68/EU	PER S.I.	2016/1105
RoHS	2011/65/EU	RoHS S.I.	2012/3032
Ecodesign	2009/125/EC	Ecodesign S.I.	2020/1528

CE and UKCA marking is applicable to the area of 50 Hz power supply

Ce climatiseur est conforme aux directives suivantes.  
Machines 2006/42/CE  
Basse tension 2014/35/UE  
CEM 2014/30/UE  
Équipements sous pression 2014/68/UE  
RoHS 2011/65/UE  
Écoconception 2009/125/CE  
La marque CE s'applique aux régions alimentées en courant de 50 Hz.

Diese Klimaanlage erfüllt die folgende Richtlinie.  
Maschinen 2006/42/EC  
Niederspannung 2014/35/EU  
EMV 2014/30/EU  
Druckgeräte 2014/68/EU  
RoHS 2011/65/EU  
Ökodesign 2009/125/EC  
Die CE-Markierung gilt für Bereiche mit einer Netzstromversorgung von 50 Hz.

Questo condizionatore d'aria è conforme alla seguente direttiva.  
Macchinario 2006/42/CE  
Bassa tensione 2014/35/UE  
EMC 2014/30/UE  
Apparecchiature a pressione 2014/68/UE  
RoHS 2011/65/UE  
Ecodesign 2009/125/CE  
Il marchio CE è applicabile alla fascia di alimentazione 50 Hz.

Este aire acondicionado cumple con la siguiente directiva.  
Máquinas 2006/42/CE  
Baja tensión 2014/35/UE  
EMC 2014/30/UE  
Equipos a presión 2014/68/UE  
RoHS 2011/65/UE  
Ecodiseño 2009/125/CE  
La indicación CE sólo corresponde al área de suministro eléctrico de 50 Hz.

Deze airconditioner voldoet aan de volgende richtlijn.  
Machine 2006/42/EC  
Laagspanning 2014/35/UE  
EMC 2014/30/UE  
Drukapparatuur 2014/68/UE  
RoHS 2011/65/UE  
Ecodesign 2009/125/EC  
CE-markering is van toepassing op het gebied met een net-stroom van 50 Hz.

Este ar condicionado está em conformidade com as seguintes directivas.  
Máquinas 2006/42/CE  
Baixa tensão 2014/35/UE  
EMC 2014/30/UE  
Equipamentos sob pressão 2014/68/UE  
RoHS 2011/65/UE  
Concessão ecológica 2009/125/CE  
A marca CE aplica-se à zona de fornecimento de energia a 50 Hz.

**PGA012A413**

202206



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

This Product contains fluorinated greenhouse gases.  
Do not vent R32 into the atmosphere: R32 is a fluorinated greenhouse gas with a Global Warming Potential (GWP) = 675.  
Do not vent R410A into the atmosphere: R410A is a fluorinated greenhouse gas with a Global Warming Potential (GWP) = 2088.  
Refer to a label on outdoor unit for the weight of fluorinated greenhouse gas and CO<sub>2</sub> equivalent.

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

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#### Note

Please turn on the power switch 6 hours before operation to protect the air conditioner (the crank case heater is conducted and the compressor is heated).

Also, be sure not to turn off the power switch (the crank case heater is conducted and the compressor is heated during stop of the compressor. It protect the fault of the compressor caused by liquid refrigerant stagnation).

## 1. 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 “⚠ WARNING” and “⚡ CAUTION”. The “⚠ WARNING” 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”.


📖 The user’s manual should be read carefully.

📖 i There is information included in the user’s manual and/or installation manual.


📖 A service personnel should be handing this equipment with reference to the installation manual.


■ 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.


■ Following precaution is only for R32.

 This equipment uses flammable refrigerants. If the refrigerant is leaked, together with an external ignition source, there is a possibility of ignition.

### WARNING


Strict compliance of the domestic laws must be observed when disposing the appliance. 


Do not use means to accelerate the defrosting process or to clean, other than those recommended by the manufacturer. 


The appliance shall be stored in a room without continuously operating ignition sources (for example: open flames, an operating gas appliance or an operating electric heater). 

Do not pierce or burn. 

Be aware that refrigerants may not contain an odour. 


The appliance shall be stored in a well-ventilated area where the room size corresponds to the room area as specified for operation. 

The staff in servicing operations must hold the national qualification or other relevant qualifications. 


 This unit should be installed in rooms which exceed the floor space specified in installation sheets of indoor/outdoor unit.  
Refer to the installation sheet.

### ■ INSTALLATION PRECAUTIONS

#### WARNING

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

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


The preventive measures that the density of leaked refrigerant does not exceed the limit is necessary in case of installing the unit in a small room. 


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

#### CAUTION


Make sure to perform grounding work. 

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

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


Do not mount where flammable gas leakage can happen. 

If leaked gas stagnates in the unit, the gas may cause fire.


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


### ■ OPERATION PRECAUTIONS

#### WARNING


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

Children shall not play with the appliance. 


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

 Do not expose yourself directly to cooled air flow for a long time or cool too much.


It may be cause of deconditioning or health disorder.

Do not insert fingers or sticks into the air inlet or outlet grilles. 

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


If the unit has been submerged under water due to a natural disaster such as flood or typhoon, consult your dealer before using it again. 

If you use it as it stands, it may lead to failure, electric shock or fire.

If any abnormal symptom (scorched flavor etc.) is found, cut off the power and stop the operation. 


Then consult your dealer.

If you use it as it stands, it may lead to failure, electric shock or fire.


One of the causes of poor cooling or poor heating may be refrigerant leakage. Please consult your dealer. 

If the repair requires additional refrigerant, determine the service with the service staff. The refrigerant of air conditioner is not toxic.

Normally the refrigerant does not leak. But if it leaks and contacts fire such as fan heater, space heater or cooking heater, it may produce toxic chemicals.


**Do not insert fingers or sticks even if air blower does not operate.** 

It may suddenly operate and cause injuries.


**When a child or sick person who may need help uses it, nearby people should take care of them sufficiently.** 

When the air conditioner is stopped by some abnormal condition, the motion sensor control, or other, it could affect health condition or cause accident.

### CAUTION

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


Storage goods may degrade.

**Do not operate the button with wet hand.** 


It may cause electric shock.

**When a burning appliance is used together with the unit, ventilate frequently.** 


If ventilation is not sufficient, it may cause oxygen deficiency accident.

**Do not place a burning appliance where the air flow from the unit is directly blown.** 


It may cause the imperfect combustion of the equipment.

**Make sure that the unit installation foundation is not damaged due to long-term use.** 


If it is left to stand, the unit may fall down causing injury.

**Do not wash the unit with water, nor place a vase with water on the unit.** 

It may cause electric shock or ignition.

**Do not install the unit where the air flow is directly blown to animals and plants.** 

They may suffer from adverse effect.

**Before cleaning, make sure to stop operation and cut off the power.** 


The fan inside rotates at high speeds.

**Make sure to use proper size of fuse.** 


Using steel wire or copper wire may lead to failure or fire.

**Do not store a flammable spray etc. near the unit, nor blow directly to the unit.** 

It may lead to fire.

**Before maintenance, make sure to stop operation and cut off the power.** 

The fan inside rotates at high speeds.

**When the unit isn't used for a long-term, cut off the power.** 


The accumulation of dirt may lead to heat generation or fire. But, before resuming the operation, turn on the unit for six hours beforehand to save harmless.

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


Dripping from the unit may lead to failure or contamination.

**Do not touch the aluminum fin.** 


Otherwise it may lead to injuries.

**Do not clean the inside of the indoor unit by yourself. Make sure to consult your dealer or user inquiry counter specified by our company.** 


If you select incorrect detergent or improper method, resin parts may be damaged and lead to water leakage. If the detergent is dropped on the electric component or motor, it may lead to failure, smoking or ignition.

**Do not place objects on the outdoor unit, nor mount on it.** 

It may lead to injuries resulting from dropping or falling.

**During the operation or maintenance, do not use an unstable footrest.** 

It may lead to injuries resulting from falling.


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

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

Piled up dust may lead to malfunction.

**During thunderstorm, stop the operation and turn off the switch.** 

A lightning strike may lead to failure.

**After several seasons of operating, inspections and maintenances are required except routine care and cleaning.** 

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

**Do not place any object around the outdoor unit, nor allow fallen leaves to pile up.** !

Fallen leaves may induce insects and worms in them, and they may lead to failure, ignition or smoking by touching electric components.

**Do not use with inlet/outlet grilles or other panel removed.** !

Otherwise, it may lead to injuries.

**Do not operate or stop the unit by using the power supply switch.** !

It may lead to fire or water leakage.  
If auto restart is set effectively, the fan may rotate suddenly causing injuries.

**Do not touch blowout port when the swing louver moves.** !

Otherwise, it may lead to injuries.

**Do not strain the remote control cord.** !

A part of core wire may be cut off causing electric leakage.

**Do not use water heater etc. near the indoor unit or remote control.** !

If a Vapor-generating appliance is used near them, it may lead to water drop causing electric leakage or short circuit.

**Do not use the unit where powder or fiber is floating.** !

Fine powder or fiber passing through the air filter may stagnate inside the unit and lead to electric leak or short circuit.

**Do not place objects under the unit which must avoid being exposed to water.** !

Over 80 percent humidity or the clogging of drain pipe may damage them through dew dropping.

**When the refrigerant leaked accidentally, turn off the stove, or other, and ventilate air sufficiently.** !

**Do not use a spray containing flammable gas near the indoor unit.** !

Otherwise, the unit may stop abnormally due to a false detection.

**Do not turn off the power breaker except during maintenance and inspection.** !

As refrigerant leakage cannot be detected, a fire may result.

**When the power breaker is on, pay attention to the rotation of the fan.** !

If the refrigerant sensor detects a refrigerant leak, the fan will rotate automatically and may cause an injury.

**If the "Refrigerant sensor replace time has passed." message appears on the remote control, replace the sensor.** !

If you continue to use the refrigerant sensor even after its replacement period has passed, a fire may result if the refrigerant leaks.

## ■ 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



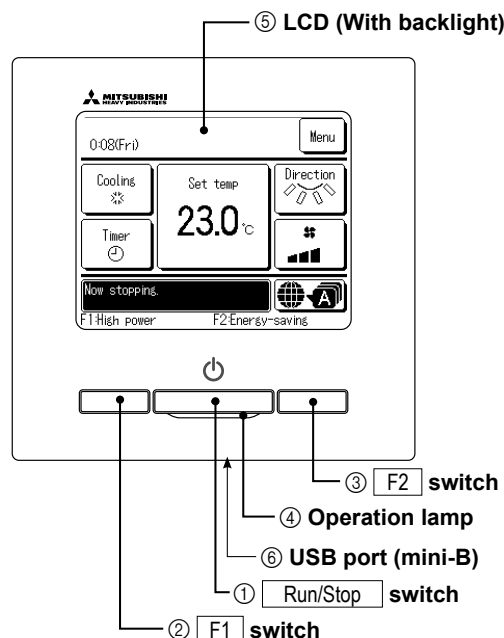
Your Air Conditioning product may be marked with this symbol. It means that waste electrical and electronic equipment (WEEE as in directive 2012/19/EU) should not be mixed with general household waste. Air conditioners should be treated at an authorized treatment facility for re-use, recycling and recovery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

## ■ UNIT SPECIFICATIONS

Item	Description
Product dimensions	120 (W) x 120 (H) x 19 (D) mm (not including protruded section)
Weight	0.20 kg
Power supply	DC 18 V
Power consumption	0.6 W
Usage environment	Temperature: 0 to 40 °C
Material	Casing: ABS

## 2. NAMES AND FUNCTIONS OF SECTIONS ON THE R/C

### NAMES AND FUNCTIONS OF SECTIONS ON THE R/C (OPERATING SECTION)



Touch panel system, which is operated by tapping the LCD screen with a finger, is employed for any operations other than the ① Run/Stop, ② F1 ③ F2 switches.

#### ① Run/Stop switch

One push on the button starts operation and another push stops operation. (☞page 7)

#### ② F1 switch ③ F2 switch

This switch starts operation that is set in F1/F2 function setting. (☞page 8)

#### ④ Operation lamp

This lamp lights in green (yellow-green) during operation. It changes to red (orange) if any error occurs.

Operation lamp luminance can be changed. (☞page 17)

#### ⑤ LCD (With backlight)

A tap on the LCD lights the backlight. The backlight turns off automatically if there is no operation for certain period of time. Lighting period of the backlight lighting can be

changed. (☞page 16)

If the backlight is ON setting, when the screen is tapped while the backlight is turned off, the backlight only is turned on. (Operations with switches ①, ② and ③ are excluded.)

#### ⑥ USB port

USB connector (mini-B) allows connecting to a personal computer.

For operating methods, refer to the instruction manual attached to the software for personal computer (remote control utility software).

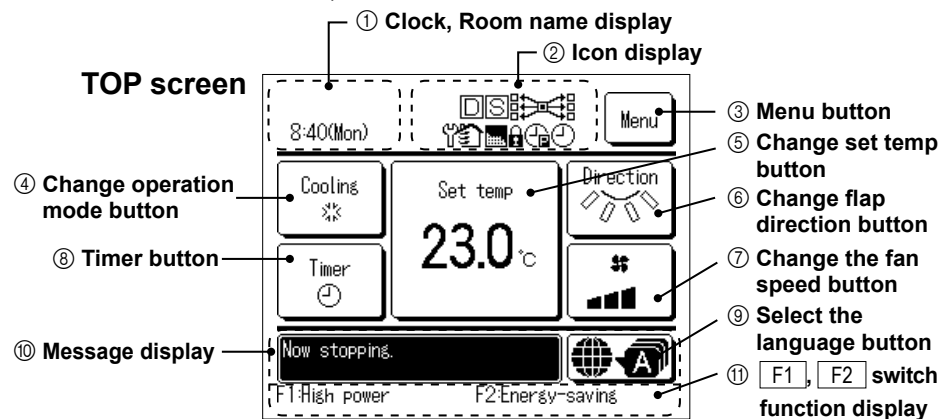
#### Note

When connecting to a personal computer, do not connect simultaneously with other USB devices.

Please be sure to connect to the computer directly, without going through a hub, etc.

### NAMES AND FUNCTIONS OF SECTIONS ON THE R/C (DISPLAY)

\*All icons are shown for the sake of explanation.



#### ① Clock, Room name display

Displays the current time (☞page 15) and the room name.

#### ② Icon display

Each icon is displayed when one of following settings is going on.

☞ When the demand control is effective.

☞ When setting is made from the sub R/C. (☞page 10)

☞ When the central control (Optional) is running.

☞ When the periodical inspection is necessary. (☞page 24)

☞ During the ventilation operation. (☞page 15)

☞ When "filter sign" is up. (☞page 23)

☞ When the Permission/Prohibition setting is made.

☞ When the peak-cut timer is set. (☞page 12)

☞ When the weekly timer is set. (☞page 19)

#### ③ Menu button

When setting or changing other than the following ④-⑧, tap the menu button. Then menu items are displayed, select one and set.

#### ④ Change operation mode button (☞page 7)

Displays the operation mode which is selected currently. Tap this button to change the operation mode.

#### ⑤ Change set temp button (☞page 7)

Displays the temperature which is set currently. Tap this button to change the set temperature.

#### ⑥ Change flap direction button (☞page 8)

Displays the flap direction which is selected currently. When the 3D auto flow operation is enabled, 3D auto display will appear. Tap this button to change the flap direction.

#### ⑦ Change the fan speed button (☞page 8)

Displays the fan speed which is selected currently. Tap this button to change the fan speed.

#### ⑧ Timer button (☞page 17)

Displays simplified contents of the timer which is set currently. (When two or more timers are set, contents of the timer which will be operated immediately after is displayed.) Tap this button to set the timer.

#### ⑨ Select the language button

Select a language to be displayed on the R/C.

#### ⑩ Message display

Status of air conditioner operation and messages of the R/C operations etc. are displayed.

#### ⑪ F1, F2 switch function Display

Displays the function that is set for each F1, F2 switch. The function for these switches can be changed in F1/F2 function setting.

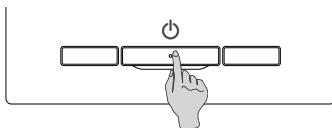
MENU ITEM		
Main menu		
Basic operation	Run .....	7
	Stop .....	7
	Change operation mode .....	7
	Change set temp .....	7
	Change flap direction .....	8
	Change the fan speed .....	8
	F1, F2 switch operation .....	8
	High power operation .....	9
	Energy-saving operation .....	9
Useful functions	Timer .....	17
	Set ON timer by hour .....	18
	Set OFF timer by hour .....	18
	Set ON timer by clock .....	19
	Set OFF timer by clock .....	19
	Confirm .....	19
	Favorite setting .....	21
	Weekly timer .....	19
	Home leave mode .....	Please refer to the RC-EX3A user's manual.
	External ventilation .....	15
	Select the language .....	22
	Silent mode control .....	22
Energy-saving setting	Sleep timer .....	11
	Peak-cut timer .....	12
	Automatic temp set back .....	13
Filter	Motion sensor control .....	14
Filter sign reset .....		23
User setting	Initial settings .....	15
	Clock setting .....	15
	Date & time display .....	15
	Summer time .....	16
	Contrast .....	16
	Backlight .....	16
	Controller sound .....	16
	Operation lamp luminance .....	17
	Administrator settings .....	
	Permission/Prohibition setting .....	
	Outdoor unit silent mode timer .....	
	Setting temp range .....	
	Temp increment setting .....	
	Set temp display .....	
	R/C display setting .....	
	Change administrator password .....	
	F1/F2 function setting .....	

Main menu	
Service setting	Installation settings .....
	Installation date .....
	Company information .....
	Test run .....
	IU back-up function .....
	Motion sensor setting .....
	R/C function settings .....
	Main/Sub of R/C .....
	Return air temp .....
	R/C sensor .....
	R/C sensor adjustment .....
	Operation mode .....
	°C / °F .....
	Fan speed .....
	External input .....
	Ventilation setting .....
	Auto-restart .....
	Auto temp setting .....
	Auto fan speed .....
	IU settings .....
	Fan speed setting .....
	Filter sign .....
	External input 1 .....
	External input 1 signal .....
	External input 2 .....
	External input 2 signal .....
	Heating thermo-OFF temp adjustment .....
	Return temperature adjustment .....
	Fan control in cooling thermo-OFF .....
	Fan control in heating thermo-OFF .....
	Anti-frost temp .....
	Anti-frost control .....
	Keep fan operating after cooling is stopped .....
	Keep fan operating after heating is stopped .....
	Intermittent fan operation in heating .....
	Fan circulator operation .....
	Auto operation mode .....
	Thermo. rule setting .....
	Auto fan speed control .....
	IU overload alarm .....
	External output setting .....
	Service & Maintenance .....
	IU address .....
	Next service date .....
	Operation data .....
	Error display .....
	Saving IU settings .....
	Special settings .....
	Indoor unit capacity display .....
Contact company	Contact company .....



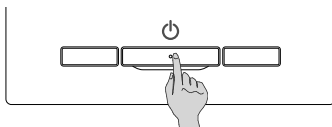
### 3. BASIC OPERATION

#### RUN

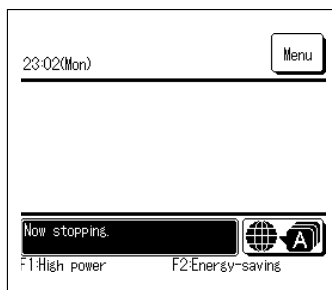


Push the **Run/Stop** switch.  
Operation lamp (green) lights and operation starts.

#### STOP



Press the **Run/Stop** switch while the unit is in operation.  
The operation lamp turns off and the operation stops.



When the operation stops, all operation buttons on the screen turn off. When the set lighting time of backlight (page 16) is counted up, the backlight turns off.

When the screen is tapped, the backlight lights, and all operation buttons are displayed.

#### Note

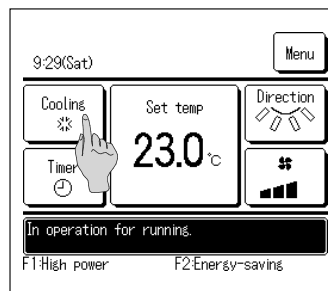
Do not shut down the power supply immediately after the stop of operation. It should be waited for more than 5 minutes till the residual operation time of drain motor is counted up. Otherwise, it could cause water leakage or breakdown.

#### Advice

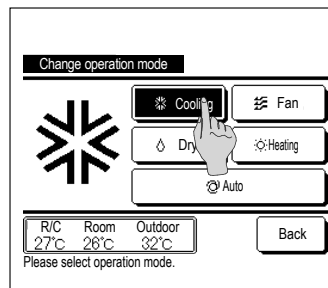
- A message "Invalid request" may be displayed when a button is pushed. This is not a fault but it is because the button operation is set to the "Disable".
- The unit starts to operate initially with the following settings after the power on. These settings can be changed as desired.
 

Central control	..... OFF
Operation mode	..... With auto mode: Auto cooling
	..... Without auto mode: Cooling
Set temp	..... 23.0°C
Fan speed	..... 3-speed
- In the following cases, a message "Operation mode is invalid." is displayed and it changes to the fan operation, because operation modes are not matched.
  - ① When Heating (including auto heating) is selected for Operation mode while using an OU for cooling only.
  - ② When Heating is selected for Operation mode while controlling multiple units including units allowed for both cooling and heating and units for cooling only.
  - ③ When different operation modes are selected between IUs which are connected to a OU that do not allow mixed operation of cooling and heating.

#### CHANGE OPERATION MODE



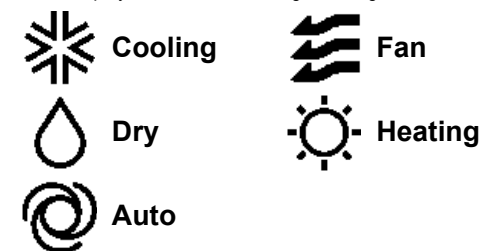
- 1 Tap the **Change operation mode** button on the TOP screen.



- 2 When the Change operation mode screen is displayed, tap the button of desired mode.

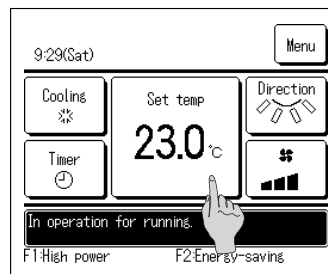
The operation mode changes, and the display returns to the TOP screen.

Icons displayed have the following meanings.

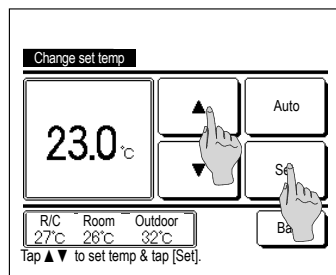


- Operation modes which cannot be selected depending on combinations of IU and OU are not displayed.
- When the Auto is selected, the cooling and heating switching operation is performed automatically according to indoor and outdoor temperatures.

#### CHANGE SET TEMP



- 1 Tap the **Change set temp** button on the TOP screen.



- When the Change set temp screen is displayed, select the temperature as desired with using ▲ ▼ buttons.
- After selecting the set temp, tap the [Set] button. The display returns to the TOP screen.

■ For allowable temperature setting ranges, refer to the range setting of set temp.

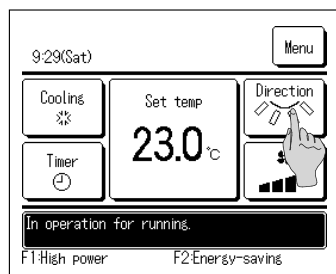
■ Reference set temp

Cooling ... 26 to 28°C  
 Dry ... 24 to 26°C  
 Heating ... 20 to 24°C  
 Fan ... Setting temp is not required.

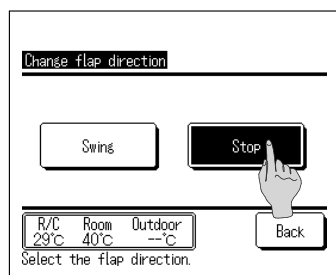
■ If the [Auto] is selected for the set temp, the set temp display shows "0". Temperature can be adjusted higher or lower with using ▲ ▼ buttons. Note that [Auto] is not displayed and cannot be set when SC-SL2, SC-SL3, or SC-SL4 is connected.

■ If the [Back] button is tapped without tapping the [Set] button, the selected set temp is invalidated and the display returns to the TOP screen.

## CHANGE FLAP DIRECTION



- Tap the [Change flap direction] button on the TOP screen.

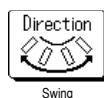


- The Change flap direction screen is displayed.

To swing the louver, tap the [Swing] button.

To fix the louver position, swing the louver, and tap the [Stop] button at the desired position.

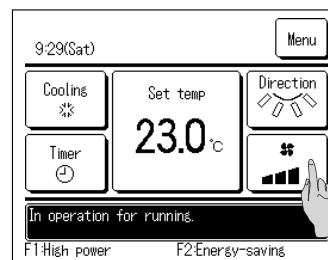
After the flap direction is selected, the display returns to the TOP screen.



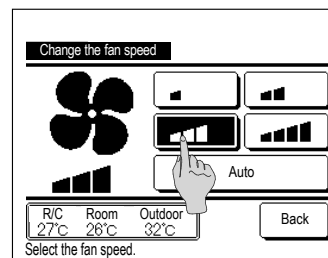
### Advice

- If you forcibly move the swing louver mechanism by hand, it may be damaged, so do not move it by hand.

## CHANGE THE FAN SPEED



- Tap the [Change the fan speed] button on the TOP screen.



- When the Change the fan speed screen is displayed, tap the button of desired fan speed.

After setting the fan speed, the display returns to the TOP screen.

■ Fan speeds which can be set vary depending on the models of IU.

■ When the [Auto] is selected, the fan speed is changed automatically depending on the capacity.

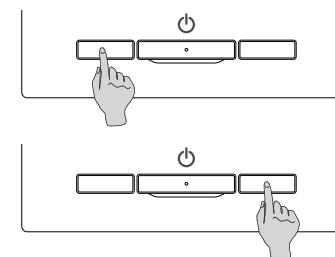
Note that [Auto] is not displayed and cannot be set when SC-SL2 or SC-SL3 is connected.

## F1/F2 SWITCH OPERATION

You can set any of the following functions to the [F1] and [F2] switches.

The [F1] / [F2] switches act as shortcuts; it can be much easier and faster than starting an operation from the usual [Menu] on the TOP screen.

- High power operation ... page 9
- Energy-saving operation ... page 9
- Silent mode control ... page 22
- Favorite setting operation ... page 22
- Filter sign reset ... page 23



Changing the function of the [F1] or [F2] switch can be performed with the F1/F2 function setting.

The following functions are set as factory settings.

You may change these settings as desired.

- [F1] switch ... High power operation  
 [F2] switch ... Energy-saving operation

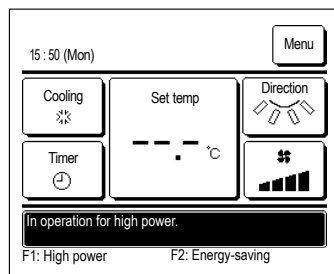
## HIGH POWER OPERATION

The high power operation adjusts the room temperature quickly to a pleasant level by increasing the operation capacity.

The high power operation continues for 15 minutes at the maximum and returns to the normal operation automatically. When the operation mode is changed, the high power operation returns to the normal operation, too.

High power operation must be set to the **F1** or **F2** switch.

High power operation is set to the **F1** switch as the factory setting.



### 1 Push the **F1** ( **F2** ) switch to start the high power operation.

- Operation will start when the **F1** ( **F2** ) switch is pushed, even if **Run/Stop** switch is off.
- High power operation is only allowed when Heating or Cooling is selected for the operation mode.

Message "In operation for high power." is displayed on the R/C screen, and "—, —°C" is displayed on the Set temp button during the high power operation.

- Set temp and change fan speed operations are disabled during high power operation.

### 2 High power operation is terminated when you perform one of the following.

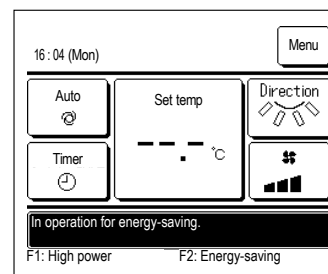
- When you terminate through a **Run/Stop** operation
- When you change the operation mode
- When 15 minutes have elapsed since the high power operation started
- When you terminate the high power operation with the **F1** ( **F2** ) switch

## ENERGY-SAVING OPERATION

Use this operation to save energy. Set temp is fixed at 28°C in the cooling operation or 22°C in the heating operation. Since the capacity is controlled automatically based on the outdoor temperature, energy can be saved without losing comfort.

Energy-saving operation must be set to the **F1** or **F2** switch.

Energy-saving operation is set to the **F2** switch as the factory setting.



### 1 Push the **F1** ( **F2** ) switch to start the energy-saving operation.

- Operation will start even if you press the **F1** ( **F2** ) switch while the unit is stopped.
- Energy-saving operation is only allowed when Heating, Cooling or Auto is selected for the operation mode.

Message "In operation for energy-saving." is displayed on the screen during the energy-saving operation. Set temp is fixed at "28.0°C" in the cooling operation or "22.0°C" in the heating operation. Set temp shows "- °C" in the automatic operation mode.

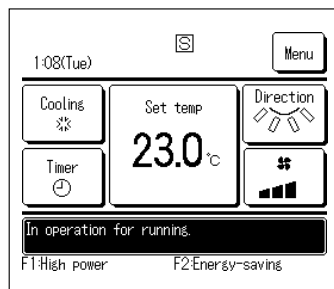
- Set temp cannot be changed during the energy-saving operation. If it is attempted, a message "Invalid request" is displayed on the screen.

### 2 Energy-saving operation is terminated when you perform the following.

- When you terminate through a **Run/Stop** operation
- When you change the operation mode
- When you terminate the energy-saving operation with the **F1** ( **F2** ) switch

## 4. MENU OPERATIONS

### RESTRICTIONS ON THE SUB R/C

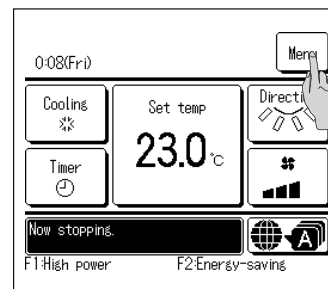


When one IU is controlled with 2 R/Cs, the following settings cannot be made on the sub R/C. It is necessary to use the main R/C.  
In case of the sub R/C, the icon is displayed on the R/C screen.

○: operable ×: not operable

R/C operations		Main	Sub
Run/Stop, Change set temp, Change flap direction, Auto swing, Change fan speed operations		○	○
High power operation, Energy-saving operation		○	○
Silent mode control		○	×
Useful functions	Timer	○	○
	Favorite setting	○	○
	Weekly timer	○	×
	Home leave mode	○	×
	External ventilation	○	○
	Select the language	○	○
	Silent mode control	○	×
Energy-saving setting		○	×
Filter	Filter sign reset	○	○
User setting	Initial settings		○
	Administrator settings	Permission/Prohibition setting	○
		Outdoor unit silent mode timer	○
		Setting temp range	○
		Temp increment setting	○
		Set temp display	○
		R/C display setting	○
		Change administrator password	○
		F1/F2 function setting	○

### OPERATIONS ON MENU SCREENS

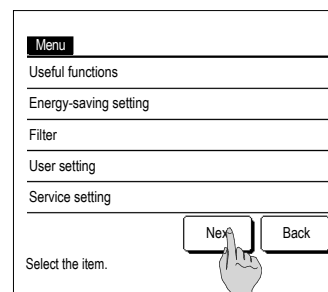


- 1 Tap the button on the TOP screen.

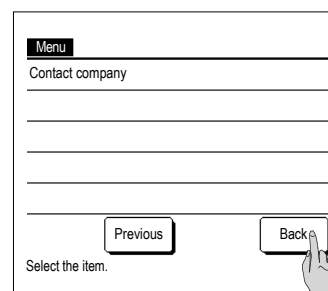
Main menu screen is displayed.

When a desired menu item is tapped, setting screen for each item is displayed.

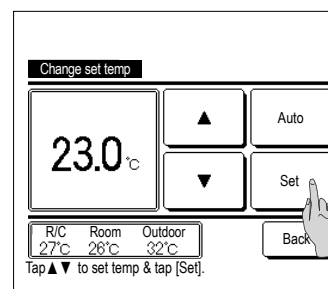
When there are two or more pages, the button is displayed at the leading page and the button is displayed at the last page. The and buttons are displayed on pages in between.



- 2 When the button is tapped, next main menu screen is displayed.

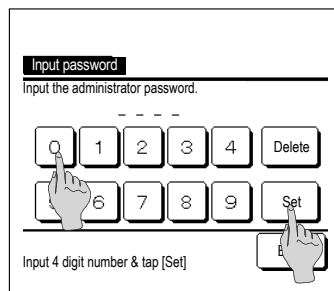


- 3 When the button is tapped, the display returns to the TOP screen.



- 4 When the button is displayed on the setting screen for each item, tapping this button confirms the setting.

■ If you tap without tapping the button, the settings made will not be applied, and the display returns to the original screen.



#### Advice

- The administrator password is provided so that these operations and settings are restricted to administrators/managers only (such as the owner of the building).
  - For the administrator password at the factory setting, refer to the Installation Manual.
- When your administrator password is forgotten, initialize the password by referring to the Installation Manual.

#### CAUTIONS FOR EACH SETTING SCREEN

- When returning to the screen mentioned below from each setting screen, operate the following buttons or switches.
  - Return to Main screen ... **Menu** button
  - Return to the last previous screen ... **Back** button
  - Return to TOP screen ... **Run/Stop** switch
- When the **Back** button is tapped without tapping the **Set** button on the way of setting, contents of the setting are invalidated, and the display returns to the last previous screen. If the **Run/Stop** switch is pushed on the way of setting, contents of the setting are invalidated, the setting mode is terminated and the display returns to the TOP screen.
- If no button is operated for approx. 5 minutes on the way of setting each item, the display returns to the TOP screen automatically. Contents of the setting on the way become invalid.
- Message “Invalid request” may be displayed when a button is pushed. This is not a fault but it is because the button is set to the Prohibition.
- It is necessary to stop the air conditioner by pushing the **Run/Stop** switch before starting the following settings.
 

If the Set button is tapped on the menu screen while the air conditioner is operating, the message “Invalid request.” is displayed.

■ Select the language    ■ Energy-saving setting    ■ Administrator settings

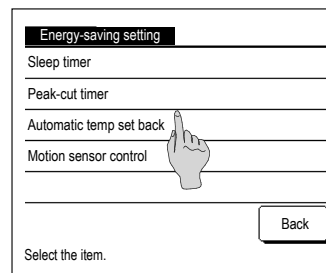
- 5 When an item is referenced to **Administrator password** in this manual, the Input password screen is displayed after selecting the menu.

Enter the administrator password (4-digit number) and tap the **Set** button.

When the password is unknown or wrong, the setting cannot be changed.

## 5. SETTINGS AND OPERATIONS

### ENERGY-SAVING SETTING [ADMINISTRATOR PASSWORD]



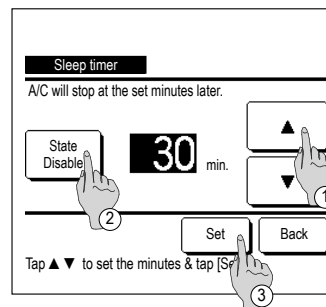
- 1 Tap the **Menu** button on the TOP screen and select **Energy-saving setting**. The Energy-saving setting menu screen is displayed.

- 2 When the Energy-saving setting screen is displayed, select a desired item.

- Sleep timer .....page 11
- Peak-cut timer .....page 12
- Automatic temp set back .....page 13
- Motion sensor control .....page 14

#### ■ Sleep timer

Stops operation when the amount of time set has elapsed since the start of each operation.



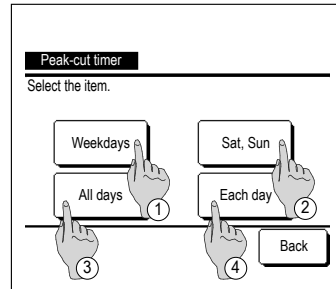
- 1 Tap the **Menu** button on the TOP screen and select **Energy-saving setting** ⇒ **Sleep timer**. The Sleep timer screen is displayed.
- 2 Select a desired time with ① **▲** **▼** buttons. Setting range: 30 to 240 minutes, at 10-min intervals.
- 3 Tap the ② **State** button to switch between “State Enable” and “State Disable”.
- “Enable”: operation stops at the set time every time.
  - “Disable”: the sleep timer does not operate.
- Unless the Sleep timer is used, set at the “State Disable”.
- 4 After the setting, tap the ③ **Set** button. The display returns to the Energy-saving setting menu screen.

## ■Peak-cut timer

Set the times to start and stop the capacity (upper limit) limiting operation and the peak-cut %.

### Advice

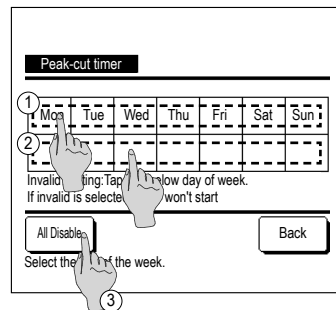
- When the peak-cut timer is used, be sure to make the Clock setting in advance (☞page 15).
- The peak-cut timer control may not be performed depending on combination of IU and OU.



- 1 Tap the **Menu** button on the TOP screen and select **Energy-saving setting** ⇒ **Peak-cut timer**.

When the setting range selection screen for the peak-cut timer is displayed, select the day of the week to be set.

- ① Weekdays : Monday - Friday
- ② Sat. Sun : Saturday, Sunday
- ③ All days : Monday - Sunday
- ④ Each day : Moves to the day of the week setting screen. (☞2)



- 2 If a desired day of the week ① is tapped on the display, contents of current setting for the day are displayed. (☞5)

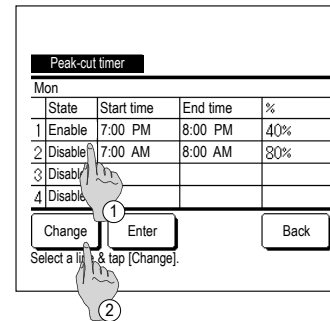
- 3 For the holiday setting, tap the block ② under a day to switch between "☞" (the holiday setting) and "(Blank)" (reset).  
Timer does not operate on the day set as holiday.

Two or more holidays can be set.

- To enable the timer on the day set as holiday, it is necessary to reset the holiday setting.

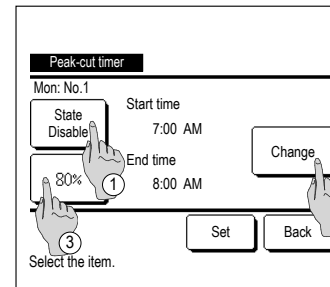
- 4 When tapping ③ "All Disable" button, the timer does not operate on all days of the week.

When the timer is used, be sure not to set "All Disable".



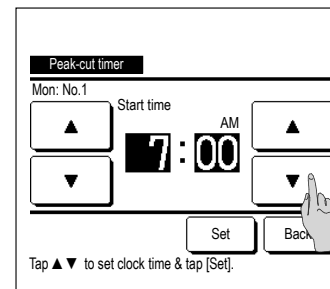
- 5 Screen to check contents of current setting is displayed.

When the contents are changed or new setting is added, select a ① setting line No. and tap the ② **Change** button.



- 6 Detail setting screen for the timer setting contents is displayed.

- ① Tap the **State** button to switch between "State Enable" and "State Disable".
- ② If the **Change** button is tapped, the start time and the end time can be set. (☞7)
- ③ If the **Peak-cut** button is tapped, the peak-cut % can be set. (☞9)

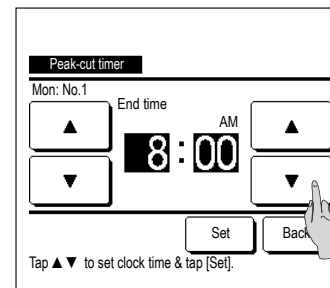


- 7 Set the Start time.

Set the hour and minute with the ▲ ▼ buttons.

Setting time can be set at 5-min intervals.

Tap the **Set** button after the setting. (☞8)



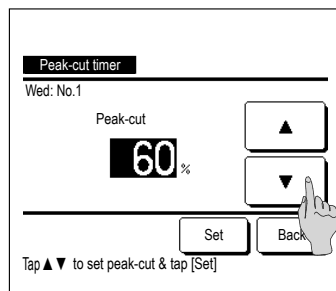
- 8 Set the End time.

Set the hour and minute with the ▲ ▼ buttons.

End time can be set from 5 minutes after the Start time up to 24:00 at 5-min intervals

Tap the **Set** button after the setting.

(☞10)



## 9 Set the peak-cut %.

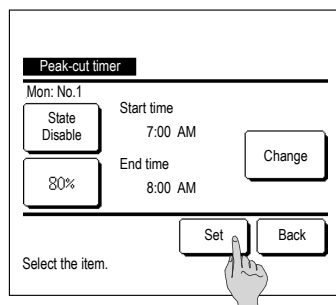
Set the peak-cut % with the ▲ ▼ buttons.

The peak-cut % can be set at 0%, 40%, 60% or 80%.

**The lower the peak-cut % is, the higher the effect of energy-saving becomes.**

Tap the Set button after the setting.

(☞10)



- 10 The setting content check screen (☞6) is displayed. If the Set button is tapped, the contents are confirmed and a day of the week setting content check screen (☞5) is displayed.

- 11 If the settings are corrected or added further within the same day, repeat the setting. (☞5)

■ When contents of the setting are duplicated, the priority is given to the set contents of smaller peak-cut %.

- 12 Display a day of the week setting content check screen. To save the setting, tap the Enter button.

a) In case of group setting: (1-①Weekdays, 1-②Sat, Sun, 1-③All days) Move to the group setting check screen.

(☞13)

b) In case of individual setting: (1-④Each day) Save the setting and move to a day of the week selection screen

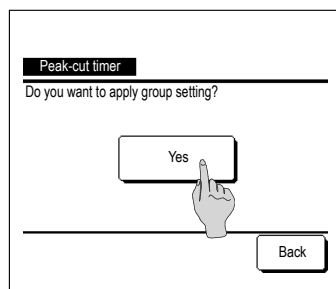
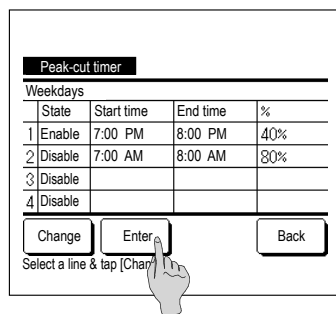
(☞2)

- 13 Display the group setting acknowledge screen.

Tap the Yes button to save the setting.

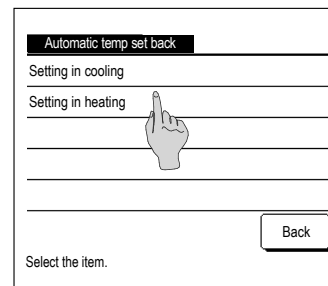
The display changes to a day of the week setting check screen after the saving. (☞2)

- 14 When making the setting after changing a day of the week, repeat the setting from the step 2.



## Automatic temp set back

It returns to the set temperature when the set time is counted up.



- 1 Tap the Menu button on the TOP screen and select Energy-saving setting ⇒ Automatic temp set back. The Automatic temp set back screen is displayed.

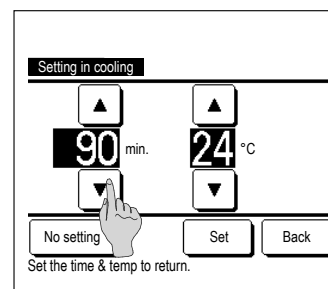
Tap Setting in cooling when setting for the cooling operation or Setting in heating when setting for the heating operation.

The Setting in cooling operation includes the cooling, dry and auto.

The Setting in heating is for the heating operation only.

Setting time range: 20 - 120 min, at 10-min intervals

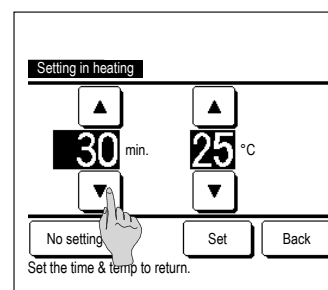
Set temp range: It can be set within the preset temp range set according to the set temp range menu.



- 2 Set desired time and temperature with the ▲ ▼ buttons.

When the Set button is tapped, contents of setting are confirmed, and the display returns to the last previous screen.

When the No setting button is tapped, "-- min. -- °C" is displayed, and the "Automatic temp set back" is not performed.



- 3 The same setting method as the Setting in the cooling operation can be applied to the Setting in heating.

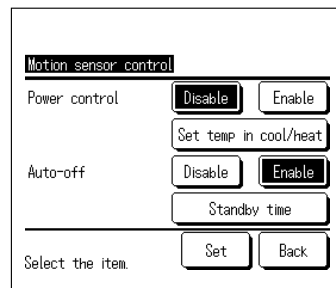
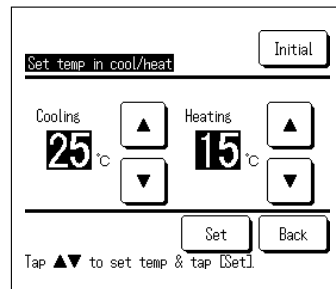
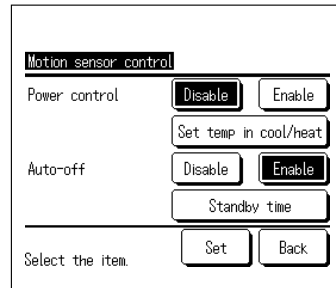
## ■ Motion sensor control (for IUs with motion sensors)

Presence of humans and the amount of motion are detected by a motion sensor to perform various controls.

■ When the R/C is set as the sub R/C, the motion sensor control cannot be set.

- 1 Tap the **Menu** button on the TOP screen and select **Energy-saving setting** ⇒ **Motion sensor control**.

The Motion sensor control screen and contents of the current settings are displayed.



- 2 Select Enable/Disable for Power control. When you select Enable, the set temperature is gradually adjusted to  $\pm 3.0$  based on the amount of activities.

Tap **Set temp in cool/heat**.

- 3 Use the **▲** **▼** button to set the temperature, and tap the **Set** button. Temporarily determine the set temperature. The allowable range is as follows:

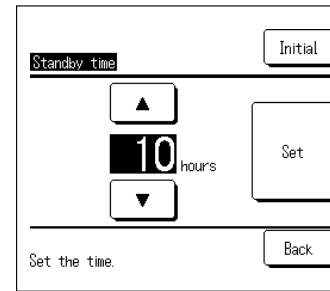
Cooling: 25 to 35°C (in unit of 1°C, Initial setting 33°C)

Heating: 10 to 20°C (in unit of 1°C, Initial setting 15°C)

If the amount of activities continues to be small, Set temp is changed to the set temperature and the power of the air conditioner is suppressed. "Power control ON" is displayed when power is being controlled. Also, Set temp displays the adjusted temperature.

- 4 Select Enable/Disable for Auto-off. If you select Enable, the unit judges that there is no one around based on the amount of activities. After one hour, the unit will be in the "Operation wait" state.

Tap **Standby time**.



- 5 Use the **▲** **▼** button to set the time, and tap the **Set** button. You can set the time from one to 50 hours in one-hour increments. Temporarily determine the time from when the unit enters the "Operation wait" state to when "Complete stop" is executed based on the fact that the unit continuously judges that there is no one around.

Operation wait: The air conditioner stops, however, it resumes operation when a person returns. "In auto-off mode" is displayed during "Operation wait".

Complete stop: The air conditioner stops and does not resume operation even when a person returns. When "Complete stop" is executed, "In auto-off mode" disappears, and the operation lamp turns off. To resume operation, press the **Run/Stop** switch.

- 6 Set each item, then tap the **Set** button.

Motion sensor control is selected.

\* If you do not tap the **Set** button on this screen, Motion sensor control is not executed.

### Note

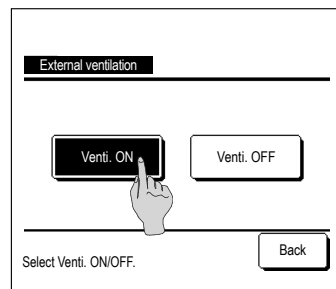
If Motion sensor control is not executed even after you make these settings, select the TOP screen **Menu** ⇒ **Service setting** ⇒ **Installation settings** ⇒ **Motion sensor control**, and check that Motion sensor control is set to Enable. If it is set to Disable, change to Enable. (For details, refer to the Installation Manual.)



## VENTILATION OPERATION (WHEN VENTILATION DEVICE IS INSTALLED)

The ventilation is turned on or off if the ventilation device is installed.

- 1 Tap the **Menu** button on the TOP screen and select **Useful functions** ⇒ **External ventilation**.
  - The ventilation operation is enabled in case that the External ventilation is set "Independent" (refer to the installation manual for details).
  - In case that the External ventilation is set "Disable" or "Interlocking" the ventilation operation is disable.



- 2 The External ventilation screen is displayed.

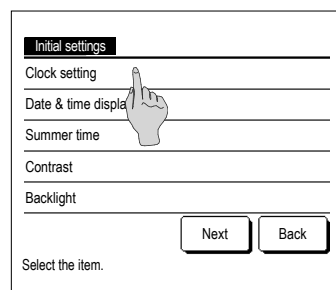
If the **Venti. ON** button is tapped, the ventilation operation starts.

To stop the ventilation operation, tap the **Venti. OFF** button.

- In case that the Ventilation is set "Interlocking", the ventilation operates interlocked with Run/Stop operation of air conditioner (refer to Installation Manual).

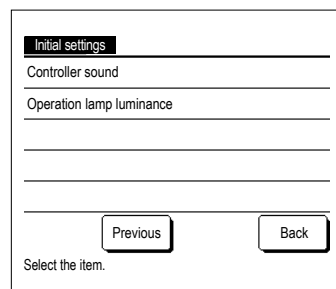
## INITIAL SETTINGS

- 1 Tap the **Menu** button on the TOP screen and select **User setting** ⇒ **Initial settings**.



- 2 When the "Initial settings" menu screen is displayed, tap a desired item.

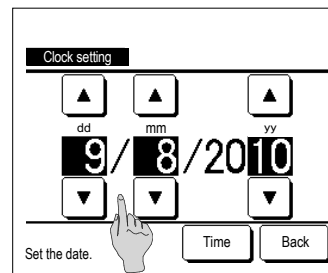
- Clock setting ..... page 15
- Date & time display ..... page 15
- Summer time ..... page 16
- Contrast ..... page 16
- Backlight ..... page 16
- Controller sound ..... page 16
- Operation lamp luminance ..... page 17



## ■ Clock setting

You can set and correct the current date and time.

- 1 Tap the **Menu** button on the TOP screen and select **User setting** ⇒ **Initial settings** ⇒ **Clock setting**.



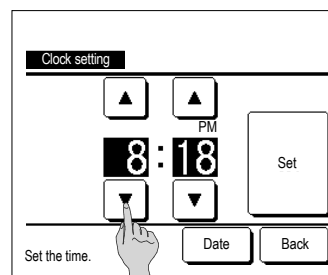
- 2 The "Clock setting" screen is displayed.

Set the "dd/mm/yy" with the **▲** **▼** buttons.

Tap the **Time** button after the setting.

- The "clock setting" is necessary for the following settings.

- Peak-cut timer
- Set ON timer by clock, Set OFF timer by clock
- Weekly timer
- Outdoor unit silent mode timer
- Filter sign reset, Setting next cleaning date



- 3 Set the "hour : minute" with the **▲** **▼** buttons on the clock setting screen.

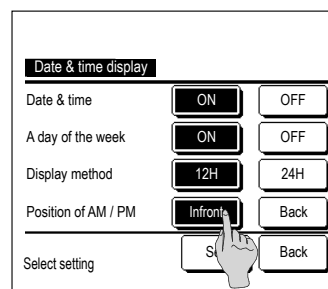
Tap the **Set** button after the setting.

To change "dd/mm/yy" tap the **Date** button.

## ■ Date & time display

You can set and correct the date & time display.

- 1 Tap the **Menu** button on the TOP screen and select **User setting** ⇒ **Initial settings** ⇒ **Date & time display**.



- 2 The Clock setting screen is displayed.

Tap **OFF** / **ON** for the Date and time.

Tap **OFF** / **ON** for A day of the week.

Tap Display method "12H or 24H".

**12H** Hours ... If it is 3:50 PM, it displays "3:50PM".

**24H** Hours ... If it is 3:50 PM, it displays "15:50".

Set the position of AM/PM.

Set **Infront** ... "PM3:50" is displayed.

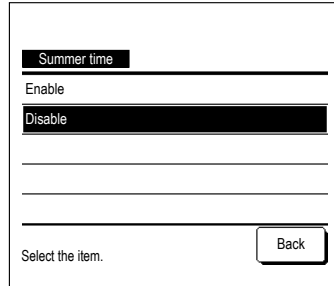
Set **Back** ... "3:50PM" is displayed.

- 3 Tap the **Set** button after the setting.

## ■Summer time

You can adjust the current time by one hour.

- 1 Tap the **Menu** button on the TOP screen and select **User setting** ⇒ **Initial settings** ⇒ **Summer time**.

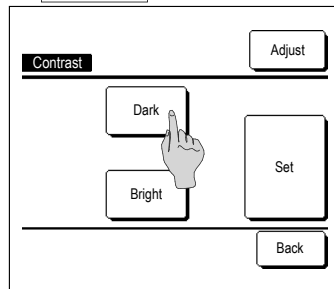


- 2 The Summer time setting screen is displayed.  
Changing from **Disable** to **Enable** ... (Current time + 1 hr) is displayed.  
Changing from **Enable** to **Disable** ... (Current time – 1 hr) is displayed.

## ■Contrast

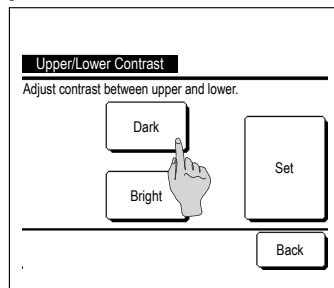
You can adjust the contrast of the LCD.

- 1 Tap the **Menu** button on the TOP screen and select **User setting** ⇒ **Initial settings** ⇒ **Contrast**.



- 2 The Contrast Adjustment screen is displayed.  
Tap the “Contrast” on the Initial settings menu screen. The contrast on the screen changes by tapping the **Dark** or **Bright** button to select a desired contrast.
- 3 Tap the **Set** button after the setting.

[When the contrast differs between the top and bottom of the screen]

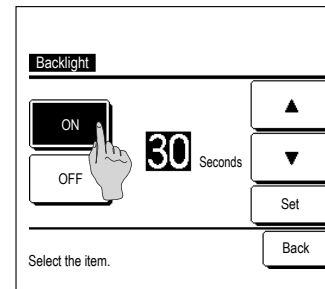


- 4 Tap the **Adjust** button to display the Upper/Lower Contrast screen.
- 5 The contrast of the lower half of the screen changes when you tap the **Dark** / **Bright** button. Adjust the contrast so that the upper and lower halves of the screen match.
- 6 After you make the settings, tap the **Set** button.

## ■Backlight

You can turn ON/OFF the backlight and set the lighting period.

- 1 Tap the **Menu** button on the TOP screen and select **User setting** ⇒ **Initial settings** ⇒ **Backlight**.



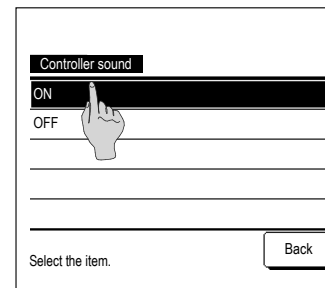
- 2 The Backlight setting screen is displayed.  
Tap the ON or OFF buttons for the backlight lighting and the lighting Period (5 - 90 sec, at 5-sec intervals).  
**ON** ... The “Backlight” lights when the LCD is tapped.  
If no operation is made for the set time, it turns off automatically.  
**OFF** ... The “backlight” does not light even if the LCD is tapped.

- 3 Tap the **Set** button after the setting.

## ■Controller sound

You can set to have the controller sound ON/OFF when the touch panel is operated.

- 1 Tap the **Menu** button on the TOP screen and select **User setting** ⇒ **Initial settings** ⇒ **Controller sound**.

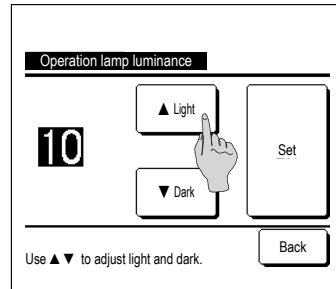


- 2 The Controller sound setting screen is displayed.  
Tap ON or OFF for the controller sound.  
**ON** ... When a button on the screen is tapped, a “beep” sounds.  
**OFF** ... There is no beep.

## ■Operation lamp luminance

You can adjust the operation lamp luminance.

- 1 Tap the **Menu** button on the TOP screen and select **User setting** ⇒ **Initial settings** ⇒ **Operation lamp luminance**.



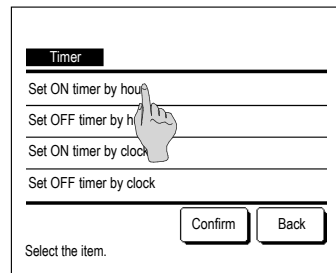
- 2 The Operation lamp luminance adjustment screen is displayed.  
You can adjust the luminance of the operation lamp to a desired level by tapping the **▲ Light** / **▼ Dark** button.
- 3 After you make the settings, tap the **Set** button.

## TIMER

### Advice

- The Clock setting (☞page 15) must be made when the Set ON timer by clock or Set OFF timer by clock is used.

- 1 Tap the **Menu** button on the TOP screen and select **Useful functions** ⇒ **Timer**



- 2 Tap a desired item on the Timer menu.
  - Set ON timer by hour .....☞page 18
  - Set OFF timer by hour .....☞page 18
  - Set ON timer by clock .....☞page 19
  - Set OFF timer by clock .....☞page 19
  - Confirm .....☞page 19

When the timer is set, the **Confirm** button is displayed.

The button is not displayed unless the timer is set.

## ■Operation of each timer

- Sleep timer (☞page 11)  
Stops the operation of the unit when the amount of time set has elapsed since the start of the operation. When the setting is enabled, this timer will activate whenever any operation starts.
- Set ON timer by hour (☞page 18)  
When the set time elapses, the air conditioner starts.  
Operating conditions at the start of operation can be set.  
Operation takes place once at each setting.
- Set OFF timer by hour (☞page 18)  
When the set time elapses, the air conditioner stops.  
Operation takes place once at each setting.
- Set ON timer by clock (☞page 19)  
The air conditioner starts at the set time.  
Operating conditions at the start of operation can be set.  
Only one day (Once) operation or operation Everyday can be set.
- Set OFF timer by clock (☞page 19)  
The air conditioner stops at the set time.  
Only one day (Once) operation or operation Everyday can be set
- Weekly timer (☞page 19)  
On timer and Off timer on weekly basis can be set.

■Setting of each timer can be combined. Allowable combination settings are as shown below.

### Allowable combination setting (○: Allowed, ×: Prohibited)

	Sleep	OFF: Hours	ON: Hours	OFF: Clock	ON: Clock	Weekly
Sleep		×	×	○	○	○
OFF: Hours	×		×	×	×	×
ON: Hours	×	×		×	×	×
OFF: Clock	○	×	×		○	×
ON: Clock	○	×	×	○		×
Weekly	○	×	×	×	×	

If a prohibited combination setting is made, a message "The combination can't be accepted" is displayed for 3 seconds.

■Priority order of the timer settings (①→③) is as follows.

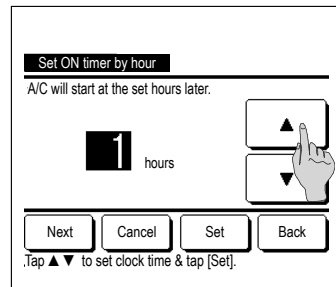
- ① Set OFF timer by hour/clock, weekly OFF timer
- ② Sleep timer
- ③ Set ON timer by hour/clock, weekly ON timer

■On the TOP screen, the timer is displayed from the earliest one out of OFF time of the sleep timer, ON time and OFF time.

## ■Set ON timer by hour

When the set time elapses, the air conditioner starts.

- 1 Tap the **Menu** button on the TOP screen and select **Useful functions** ⇒ **Timer** ⇒ **Set ON timer by hour**.



- 2 The Set ON timer by hour setting screen is displayed.

Select desired hours for the period to start operation by timer with the **▲ ▼** buttons.

Range of setting time: 1 to 12 hours (at 1-hr intervals)

- 3 When operating conditions at the start of operation are set, tap the **Next** button. (☞ 4)

When operating conditions are not set, tap the **Set** button.

- 4 Set the following operating conditions.

① Warming up ON/OFF (the Main R/C only)

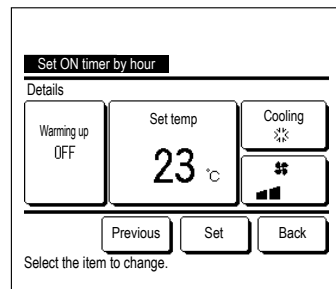
② Operation mode ... ☞ 5

③ Set temp ... ☞ 6

④ Fan speed ... ☞ 7

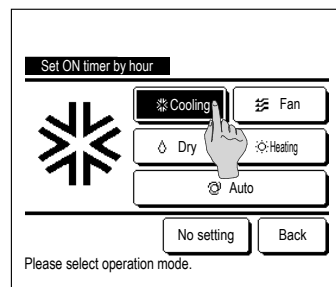
■ Warming up setting can be made with the main R/C only.

■ Set the operation mode before setting the set temperature.



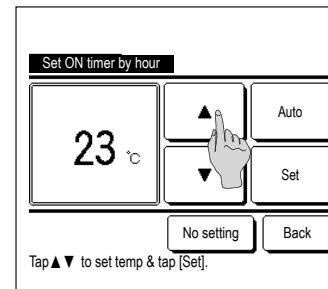
### Advice Warming up

- To warm up the room temperature closed to the set temperature at the set start time of the operation, the microcomputer estimates the start time of the operation based on the last warming up operation and starts the operation 5 to 60 minutes earlier.
- When the warming up is turned ON, set the timer at one hour earlier or more than the start operation by timer. If it is set in less than one hour, a message "Warming up cancelled" is displayed on the screen. (This is used as the Set ON timer by hour and clock.)



- 5 Tap a desired operation mode.

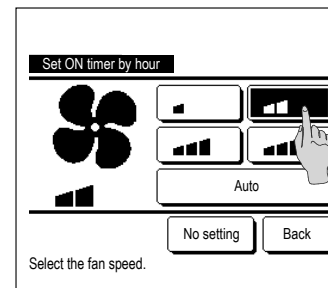
If the **No setting** button is tapped, it starts operation at the last action. (☞ 4)



- 6 Select a desired temperature (at 1°C intervals) with the **▲ ▼** buttons. Or tap the **Auto** button and select the auto temp setting.

Tap the **Set** button after the adjustment. (☞ 4)

When the **No setting** button is tapped, "--°C" is displayed, and it starts operation at the last setting temperature.



- 7 Tap a desired fan speed.

If the **No setting** button is tapped, it operates at the last action. (☞ 4)

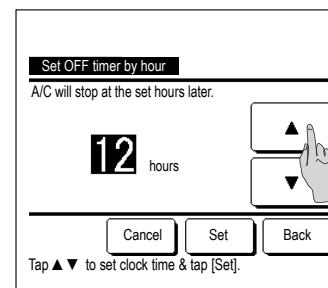
- 8 After setting the desired contents at the screen of the step 4 on the previous page, tap the **Set** button.

Operation will start at set hours later.

## ■Set OFF timer by hour

When the set time elapses, the air conditioner stops.

- 1 Tap the **Menu** button on the TOP screen and select **Useful functions** ⇒ **Timer** ⇒ **Set OFF timer by hour**.



- 2 The Set OFF timer by hour setting screen is displayed.

Select desired hours to stop operation with the **▲ ▼** buttons.

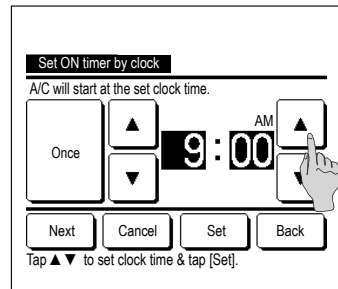
Range of setting time: 1 to 12 hours (at 1-hr intervals)

- 3 Tap the **Set** button after the setting.

## ■Set ON timer by clock

Starts the operation of the unit at the set clock time.

- 1 Tap the **Menu** button on the TOP screen and select **Useful functions** ⇒ **Timer** ⇒ **Set ON timer by clock**.



- 2 The Set OFF timer by hour setting screen is displayed.

Select a desired time to start operation (5-min intervals) with the ▲ ▼ buttons.

- 3 When operating conditions at the start of operation are set, tap the **Next** button to set operation conditions.

The operation conditions can be set the same way as the Set ON timer by hour settings (☞page 18 4 to 7)

If operating conditions are not set, tap the **Set** button.

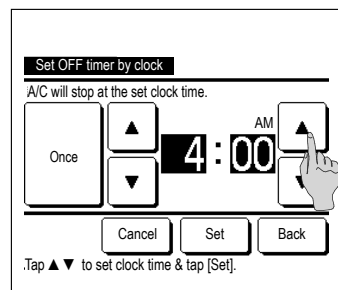
The Set ON timer by clock can be operated one day (Once) or everyday.

If it is operated everyday, tap the **Once** / **Everyday** button to change the display to "Everyday".

## ■Set OFF timer by clock

Stops the operation of the unit at the set clock time.

- 1 Tap the **Menu** button on the TOP screen and select **Useful functions** ⇒ **Timer** ⇒ **Set OFF timer by clock**.



- 2 The Set OFF timer by clock setting screen is displayed.

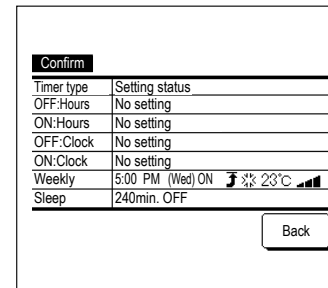
Select a desired time to stop operation (5-min intervals) with the ▲ ▼ buttons.

- 3 Tap the **Set** button after the setting.

The Set OFF timer by clock can be operated one day (Once) or everyday.

If it is operated everyday, tap the **Once** / **Everyday** button to change the display to "Everyday".

## ■Confirm



- 1 When you tap the **Confirm** button on the Timer menu screen, the contents of the current timer settings are displayed.

■When the warming up is set, "F" is displayed in front of the operation mode on confirmation screen.

## WEEKLY TIMER

You can set four on timer and off timer operations for each day of the week.

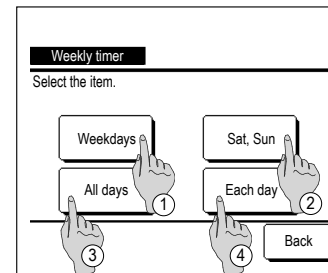
### Advice

- The Clock setting (☞page 15) must be made when the weekly timer is used.
- The weekly timer can be set from the main R/C only.

- 1 Tap the **Menu** button on the TOP screen and select **Useful functions** ⇒ **Weekly timer**.

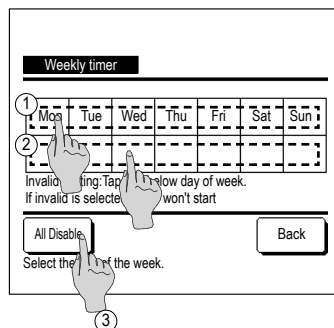
Enter the administrator password if the administrator password input screen is displayed.

■There are cases that the Input password screen is displayed by the Permission/Prohibition setting.



- 2 When the screen to select the setting range, select a day of the week to be set.

- ① Weekdays : Monday - Friday
  - ② Sat. Sun : Saturday, Sunday
  - ③ All days : Monday - Sunday
  - ④ Each day : Moves to the day of the week setting screen.
- (☞3)



3 When a desired day of the week ① is tapped on the display, contents of current setting for the day are displayed. (☞5)

4 For the holiday setting, tap the block ② under the day to switch between "☞" (the holiday setting) and "(Blank)" (reset).

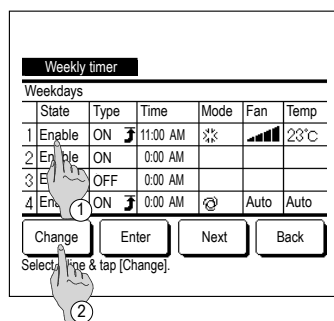
Timer does not operate on the day set as holiday.

Two or more holidays can be set.

■ To enable the timer on the day set as holiday, it is necessary to reset the holiday setting.

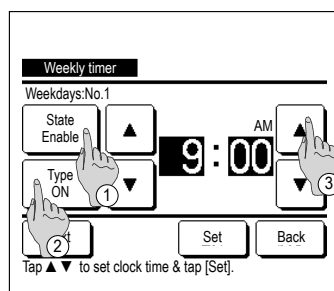
When tapping ③ "All Disable" button, the timer does not operate on all days of the week.

When the timer is used, be sure not to set "All Disable".



5 Screen to check contents of current setting is displayed.

When the contents are changed or new setting is added, select a ① setting line No. and tap the ② [Change] button.



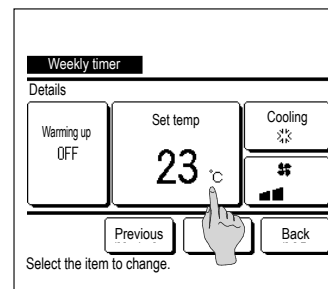
6 Detail setting screen for the timer setting contents is displayed.

① Tap the [State] button to switch between "State Enable" and "State Disable".

② Tap the [Type] button to switch between the "OFF timer" and the "ON timer".

③ Select a desired time (at 5-min intervals) with the ▲▼ buttons.

④ In case of "ON timer" when the [Next] button is tapped, operating conditions at the start of operation can be set. (☞7)



7 Set the following operating conditions.

① Warming up ON/OFF

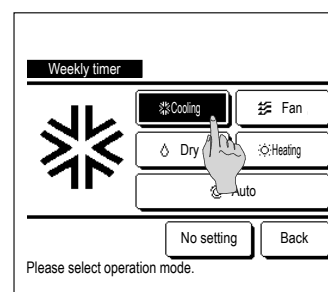
(Operation starts 5 to 60 minutes earlier in order to warm up the room temperature closed to the set temp at the set start time of operation.)

② Operation mode ...☞8

③ Set temp ...☞9

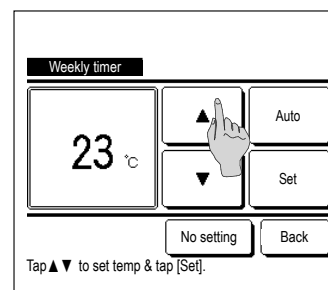
④ Fan speed ...☞10

■ Set the operation mode before setting the set temperature.



8 Tap a desired operation mode.

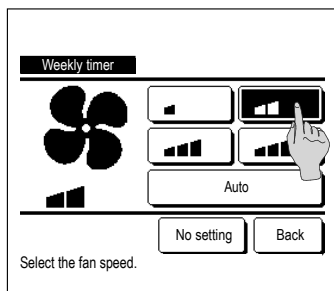
When the [No setting] button is tapped, it operates with the same operation mode at the last action. (☞7)



9 Select a desired temperature (at 1°C intervals) with the ▲▼ buttons. Or tap the [Auto] button to select the Auto temp setting.

Tap the [Set] button after the selection. (☞7)

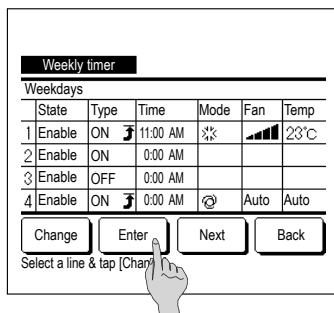
When the [No setting] button is tapped, "--°C" is displayed, and it starts operation at the last setting temperature.



## 10 Tap a desired fan speed.

When the **No setting** button is tapped, starts operation at the last fan speed. (P. 7)

## 11 After setting desired contents at the screen of 7, tap the **Set** button.



## 12 Display the setting contents check screen. To register the setting, tap the **Enter** button.

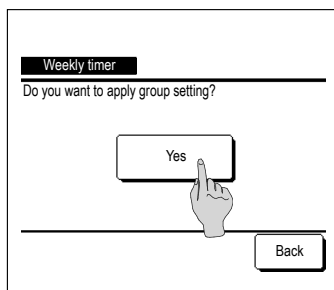
(1) In case of group setting (2-①Weekdays, 2-②Sat/Sun, 2-③All days setting), move to the group setting screen. (P. 13)

(2) In case of the individual setting (2-④Each day setting), save the setting and move to a day of the week selection screen. (P. 3)

## 13 Display the group setting acknowledge screen. Tap the **Yes** button and save the setting.

The display changes to a day of the week setting check screen after saving. (P. 3)

When making the setting after changing a day of the week, repeat the setting from the step 3.

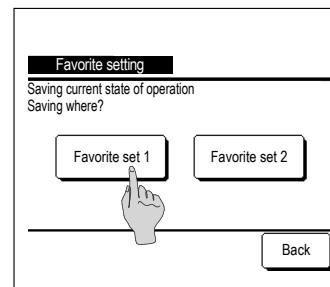


## REGISTERING FAVORITE SETTINGS

Operation mode, set temp, fan speed, fan direction can be registered as Favorite set 1 and Favorite set 2.

Allocating these settings to the **F1** and **F2** switches allows you to perform operations with these registered settings with a single tap of the button.

Refer to the F1/F2 function setting on how to set the **F1** and **F2** switches.



## 1 On the TOP screen, set the desired operation mode, set temp, fan speed, and flap direction.

Tap the **Menu** button on the TOP screen and select **Useful functions** ⇒ **Favorite setting**.

The administrator password input screen is displayed.

Enter the administrator password.

■ You cannot register the favorite settings during high power and energy-saving operations.

## 2 The save location selection screen for favorite settings is displayed.

Select the save location.

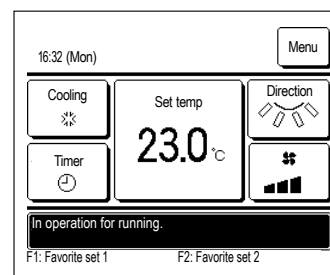
If there is any data that was previously saved, that data will be overwritten.

## FAVORITE SETTING OPERATION

You can start an operation with the operation mode, set temp, fan speed, flap direction registered to Favorite set 1 and Favorite set 2.

Settings for the operation mode, set temp, fan speed, flap direction can be registered from Favorite setting on the menu (P. 21).

Favorite setting operation must be set to the **F1** or **F2** switch.



## 1 When you press the **F1** (**F2**) switch, the operation mode, set temp, fan speed, flap direction registered to Favorite set 1 or Favorite set 2 will be enabled.

■ Operation will start even if you press the **F1** (**F2**) switch while the unit is stopped.

■ You can change the operation mode, set temp, fan speed, flap direction after the operation has started with the favorite setting operation.

■ Following power on, the unit starts to operate initially with the following settings for both Favorite set 1 and Favorite set 2.

Operation mode	...Cooling
Set temp	...28°C
Fan speed	...3-speed
Flap direction	...Fix

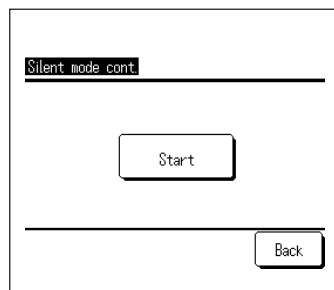
■ When Change set temp, Change operation mode, Change flap direction, Change fan speed are restricted by the Permission/Prohibition setting, restricted items will not be reflected to the Favorite setting operation.

## SILENT MODE CONTROL

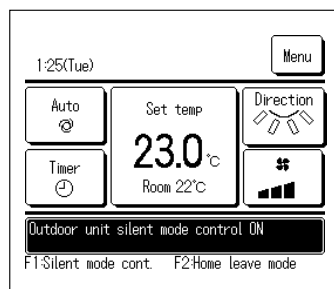
The OU is controlled with priority on quietness. You can start/stop the silent mode control.

### [Starting control with **Menu** button]

- 1 Tap the **Menu** button on the TOP screen and select **Useful functions** ⇒ **Silent mode control**  
The administrator password input screen is displayed.  
Enter the administrator password.



- 2 The Silent mode control (Start/End) screen is displayed.  
Tap the **Start** button to start the silent mode control.  
To terminate the silent mode control, tap the **End** button.



- 3 During silent mode control, "Outdoor unit silent mode control ON" will be displayed on the message display.  
■ Silent mode control will not be disabled even if you press the **Run/Stop** switch.  
■ When the sub R/C is set, the silent mode control cannot be used.  
■ During silent mode control, operation with maximum capacity is not allowed.

### [Starting control with **F1** or **F2** switch]

Change the **F1** (**F2**) switch function to the silent mode control in the **F1** (**F2**) function setting.

When you press the **F1** (**F2**) switch, the administrator password input screen is displayed. After you enter the password, the silent mode control will start.

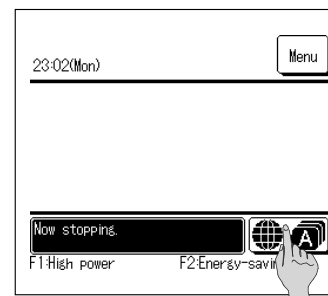
To terminate the silent mode control, press the **F1** (**F2**) switch again.

■ This operation is to select enable/disable of silent mode control. You cannot start the operation with the **F1** (**F2**) switch during stop. Start the operation with the **Run/Stop** switch.

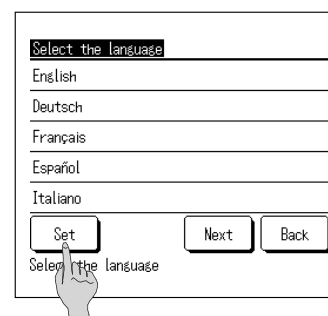
## SELECT THE LANGUAGE

Select the language to be displayed on the R/C.

### [Selecting the language with the **Language** button]



- 1 Tap the **Language** button on the TOP screen while the air conditioner is stopped.  
■ Depending on how the Permission/Prohibition setting is set, the administrator password input screen may be displayed.



- 2 The menu for select the language is displayed.  
Select the language to be displayed on the R/C and tap the **Set** button.  
You can select from the following languages:  
English/German/French/Spanish/Italian/Dutch/Turkish/  
Portuguese/Russian/Polish/Japanese/Chinese

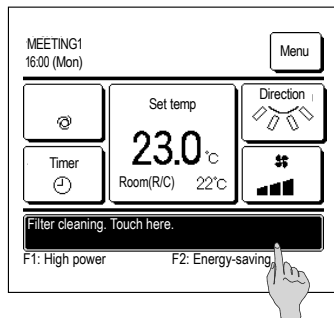
### [Selecting the language with the **Menu** button]

- 1 Tap the **Menu** button on the TOP screen and select **Useful functions** ⇒ **Select the language**  
■ Depending on how the Permission/Prohibition setting is set, the administrator password input screen may be displayed.
- 2 The menu for setting the language selection is displayed.  
Select a language to be displayed on the R/C and tap the **Set** button.



## FILTER SIGN RESET

In order to announce the time for cleaning of the air filter, the message of "Filter cleaning. Touch here." is displayed when the cumulative operation time of the IU reaches the preset time. After you clean the filter, you must reset the operation time.



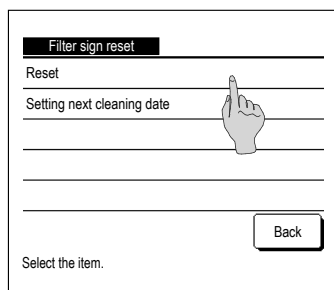
- 1 Tap the message display on the TOP screen.

You can also perform filter sign reset from the menu before the message "Filter cleaning. Touch here." is displayed.

Tap the **Menu** button on the TOP screen and select **Filter** ⇒ **Filter sign reset**.

You can also use the **F1** and **F2** switches to perform this operation.

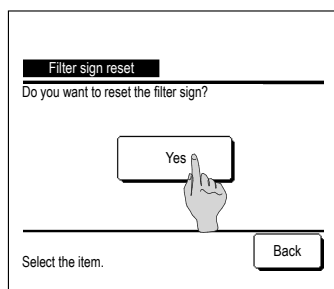
Set the filter sign reset to the **F1** ( **F2** ) switch using the Switch function to perform this operation.



- 2 The filter sign reset menu screen is displayed.

To reset the filter sign, tap **Reset**. (E3-3)

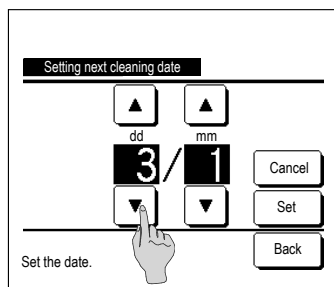
To set next cleaning date, tap Setting next cleaning date. (E3-4)



- 3 Acknowledge screen for the Filter sign reset screen is displayed.

Tap the **Yes** button.

If you do not want to reset, tap the **Back** button.



- 4 The Setting next cleaning date screen is displayed.

Select a desired date with the **▲** **▼** buttons and tap the **Set** button.

The message of "Filter cleaning. Touch here." will be displayed on the set date.

### Advice

- When setting next cleaning date, the Clock setting must be made. (E3-15 page 15)

## 6. MAINTENANCE OF UNIT AND LCD

### MAINTENANCE OF UNIT AND LCD

- Wipe the surface of LCD and main body of the remote control with a dry cloth when cleaning is required.
- If the dirt on the surface cannot be removed, soak the cloth in neutral detergent diluted with water, squeeze the cloth tightly, and clean the surface. Wipe the surface with a dry cloth then.

### Note

Do not use any paint thinner, organic solvent, or strong acid.

### Warning

**Do not use flammable materials (e.g. hairspray or insecticide) near the unit.**



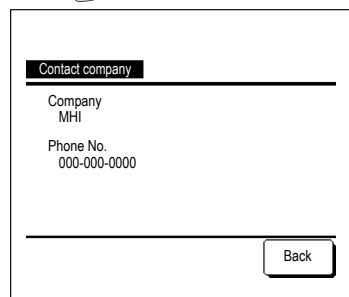
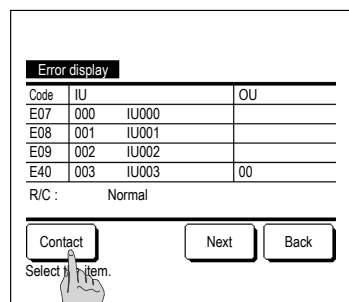
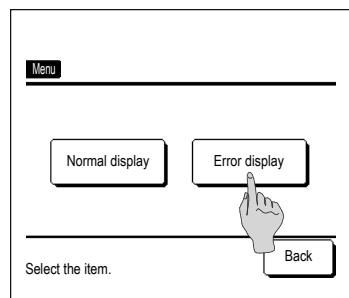
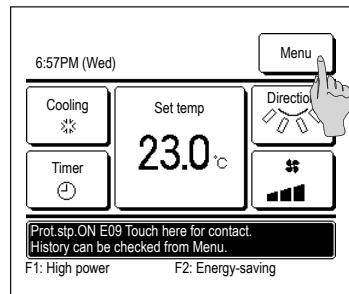
**Do not clean the unit with benzene or paint thinner.**

It could cause crack damage to the unit, electric shocks, or fire.

## 7. USEFUL INFORMATION

### CONTACT COMPANY & ERROR DISPLAY

If any error occurs on the air conditioner, the "Unit protection stop" is indicated on the message display. Take the following measures, stop the operation and consult your dealer.



- 1 The "Unit protection stop" is displayed on the message display.

Tap the **Menu** button.

When the **Normal display** and **Error display** button is displayed, tap the **Error display** button.

- 2 Contents of error are displayed.

After checking the error contents (Code), tap the **Contact** button.

Or tap the **Normal display** button on the previous screen and select the "Contact company" on the menu screen and tap it.

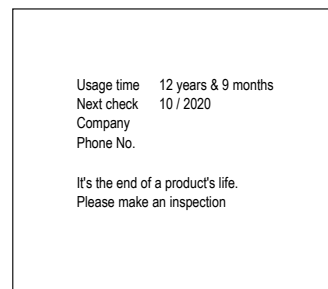
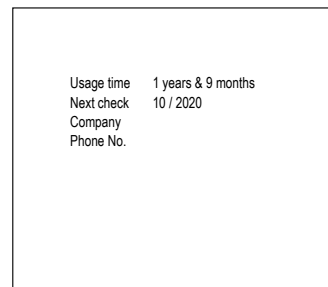
- 3 Company information (Name and phone No. of contact) is displayed.

This is displayed when it has been preset by your dealer.

## 8. NOTICE OF INSPECTION DATE

If the next service date is set on the Service & Maintenance menu by your dealer, the following screen is displayed for 5 seconds at the start of operation and for 20 seconds from the end of operation on the beginning of the month which includes the set date.

When this screen is displayed, contact your dealer.



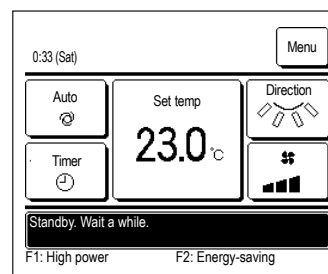
When the period of use exceeds 10 years, the screen shown at left is displayed.

When this screen is displayed, contact your dealer.

## 9. MESSAGE DISPLAY

During operation, the following messages will be displayed on the message display to notify the current condition of the unit.

### ■ "Standby. Wait a while." displayed

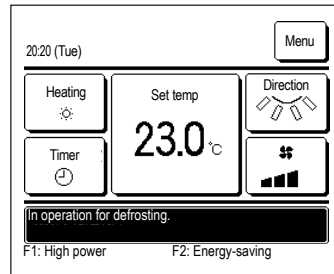


The message "Standby. Wait a while." may be displayed (maximum of 30 minutes) on the R/C during the first operation following a breaker power on or power loss.

This does not indicate a failure; it is caused by the cooling machine oil protect control that is activated in order to protect the compressor.

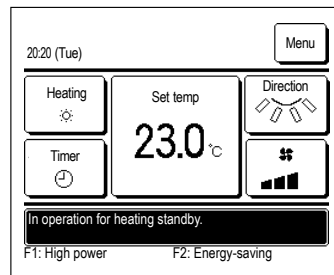
Please wait until the message "Standby. Wait a while." disappears.

### ■“In operation for defrosting.” display



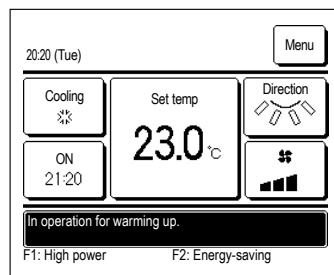
When frost forms on the OU, the heating performance will decrease. This will cause the unit to automatically switch to defrost operation, and hot air will stop blowing out from the IO. The message “In operation for defrosting.” will be displayed on the message display. After the defrost operation has completed, “In operation for defrosting.” will disappear, and the unit will switch back to its normal heating operation.

### ■“In operation for heating standby.” displayed



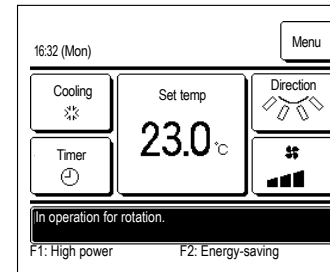
To prevent any cold air blowing out from the IO at the start of a heating operation, the unit stops the fan and displays “In operation for heating standby.” on the message display. When the unit is ready to blow out hot air, the message “In operation for heating standby.” disappears, and the unit will start heating operation.

### ■“In operation for warming up.” display



When you select to enable warming up by the Set ON timer by hour (⌚ page 18) or Set ON timer by clock (⌚ page 19), the operation will start 50 to 60 minutes earlier, which is predicted based on the previous warm up operation, so that the room will be close to the set temp by the time it reaches the operation start time. During the warm up operation, the message “In operation for warming up.” will be displayed on the message display. This message will disappear at the time set for operation start.

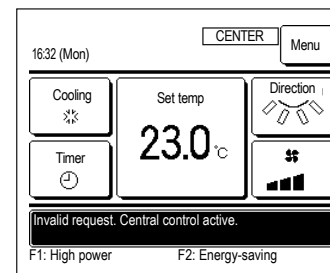
### ■“In operation for rotation.”, “In operation for capacity back-up”, “In operation for fault back-up” displays



When rotation, capacity back-up, or fault back-up operation is enabled during installation, a message indicating the operation that is set and running will be displayed on the message display. Refer to the installation manual on how to make these settings.

### ■“Invalid request. Central control active.” display

When the unit is controlled through a central control device (not included), and you performed an operation other than the followings, the message “Invalid request. Central control active.” is displayed.

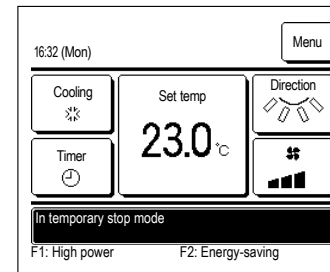


This does not indicate a failure; the message indicates that the unit is controlled through a central control device.

[Operations allowed during central control]

- Filter sign reset
- Administrator settings

### ■“In temporary stop mode”, “In forced thermostat OFF”, “In setting temperature shift” displays

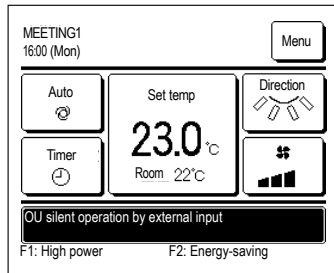


These messages will be displayed when the unit is operated through IO external input.

This does not indicate a failure; the message indicates that the unit is operated through IO external input.

### ■“OU silent operation by external input” display

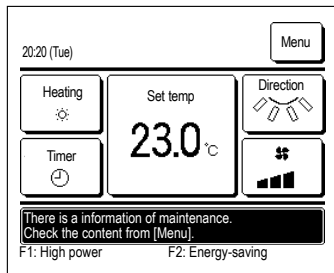
The message “OU silent operation by external input” will be displayed when silent mode control is operated through a central control device (not included) or an IO external input (not included).



When “OU silent operation by external input” is displayed, the operation performed will be the same as the silent mode control (page 22) performed from the R/C.

During silent mode control, operation with maximum capacity is not allowed.

### ■“There is a information of maintenance. Check the content from [Menu].” display

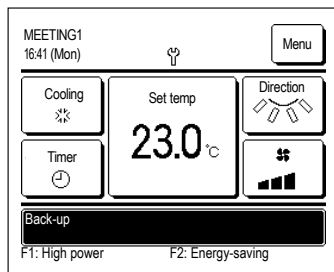


To notify any maintenance information related to the product, the message “There is a information of maintenance. Check the content from [Menu].” may be displayed in the message display. When this message is displayed, tap the **Menu** button. The maintenance description will be displayed.

Contact the dealer/company shown as the Contact company (page 24) and notify the details (code) of required maintenance.

### ■“Back-up” display

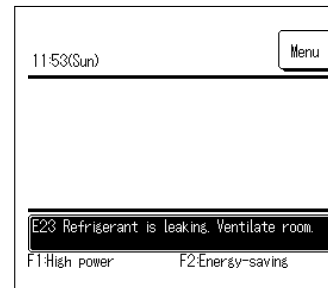
When any error occurs on the OU but its operation is continued as an emergency measure, the message of “Back-up” will be displayed.



When the “Back-up” is displayed, contact dealer/company shown as the Contact company (page 24) immediately for checking.

■ If the operation is continued without checking, it could result in breakdown.

### ■“Refrigerant is leaking. Ventilate room.” message display

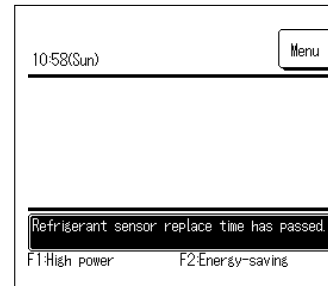


This message is displayed if the refrigerant sensor detects a refrigerant leak.

Extinguish fire on combustion appliances, then ventilate the room. Even though the unit stops abnormally, the fan of the indoor unit operates automatically. Do not shut off the power breaker. Call the phone number shown to inform us of the content of the message.

■ When the fan of the indoor unit starts the automatic operation, a beeping sound is emitted from the remote control for a few seconds.

### ■“Refrigerant sensor replace time has passed.” message display



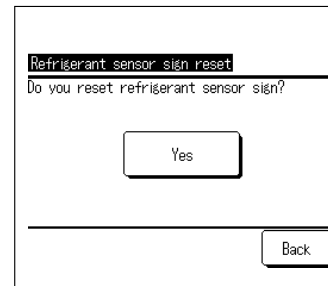
The refrigerant sensor is a component that requires regular maintenance.

When the time arrives for maintenance to be carried out on the refrigerant sensor, the message shown on the left appears for a few minutes at the start and end of the operation.

Call the phone number shown to request a replacement of the refrigerant sensor.

#### CAUTION

If you continue to use the refrigerant sensor beyond the replacement period, a fire may result if the refrigerant leaks.



If you want to turn off the message, tap the message display area while the message is being displayed.

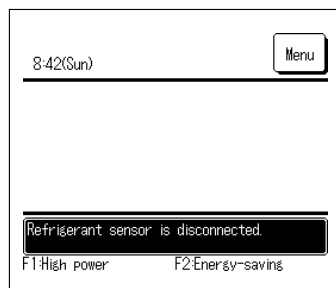
The Refrigerant sensor sign reset screen is displayed.

Tap the **Yes** button.

If you do not want to reset, tap the **Back** button.

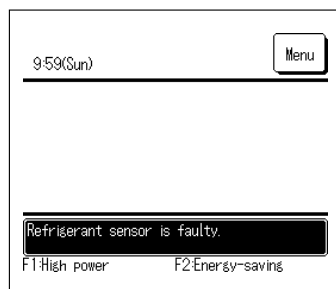
If you do not replace the sensor, the message reappears after 720 hours.

## ■“Refrigerant sensor is disconnected.” message display



This message is displayed if the refrigerant sensor is disconnected.  
Call the phone number shown to inform us of the content of the message.

## ■“Refrigerant sensor is faulty.” message display



This message is displayed if the refrigerant sensor fails.  
Call the phone number shown to request a replacement of the refrigerant sensor.

■ A beeping sound is emitted from the remote control for a few seconds.

## 10. AFTER-SALE SERVICE

### ● Inform your dealer

- Model name
- Date of installation
- Failure conditions: As precise as possible.
- Your address, name, and telephone number

### ● Moving

The moving of the unit requires special technology. Consult your dealer.  
Necessary expenses for the moving of the unit will be charged.

### ● Repairs after Warranty Period

Consult your dealer. Fare-paying services may be possible at the request of customer.  
(The warranty period is one year counting from the date of installation.)

### ● Inquiry about After-sale Service

Contact your dealer or the service contact.

## 11. 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

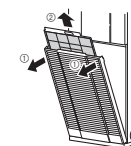
**Be careful so that the dust does not get into your eyes when removing the air filter.**

#### ⚠ Caution

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

### How to remove

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



### How to clean

- 1 Wash away for cleaning. If it is not so dirty, tap it or use cleaner.  
If it is very dirty, dissolve some neutral detergent in lukewarm water (approximately 30°C), rinse the filter with it and wash the detergent away completely.
- 2 After 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 PERIOD OF USE (AFTER A LONG PERIOD OF USE)

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

### AT THE BEGINNING OF THE PERIOD OF USE (AFTER A LONG UNUSED PERIOD)

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

## 12. TROUBLE SHOOTING

Check the following items before requiring service.

### THE UNIT DOES NOT WORK AT ALL

Is the power supply switch turned off?



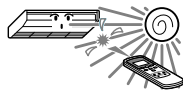
Is there a blackout or is the fuse blown?



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 air flow 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 AIR FLOW AT HEATING

Is "In operation for heating standby." displayed in the remote control display?

☞ See right



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 the check indicator light flashes.
- If water drips at cooling/dehumidifying operation.
- If the operation or operation noise is abnormal.

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.
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 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. <b>CAUTION</b> 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 air flow 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 "In operation for heating standby." is displayed.
The outdoor unit discharges water or steam during heating operation.	Water or steam is discharge during defrosting operation which removes frost built up on the surface of the heat exchanger in the outdoor unit in heating mode.
The outdoor unit fan is not running even when the system is in operation.	The fan speed is automatically controlled according to the ambient temperature. It may be stopped in high ambient temperature in case of heating, and in low ambient temperature in case of cooling. Also, the fan is stopped during defrosting operation. <b>CAUTION</b> 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 page 7

The phenomena mentioned below is not malfunction.

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.
Even if the wired remote control is operated, "central control" light only flashes and doesn't operate.	Is not "central controlling" or "center" displayed? If controlled with a separately purchased center console etc., the unit cannot be operated by the remote control.

## 13. PREPARATION OF HEATING

### CASES WHEN "IN OPERATION FOR HEATING STANDBY." AND "IN OPERATION FOR DEFROSTING." ARE DISPLAYED

"In operation for heating standby." and "In operation for defrosting." are 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 air flow 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 applies the mechanism that draws the heat from the outside air to warm up the room by means of the refrigerant.

#### • Defrost operation

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

#### • 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 air flow becomes automatically low. When the room temperature drops, it is switched back automatically to the normal operation.

## 14. AUTO RESTART <WIRED REMOTE CONTROL>

### NOTICE

An auto restart function, which is disabled at the factory setting, is applicable to the remote control. 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.

- ① Timer setting is cancelled. But the sleep timer recovers after power failure recovers. When recovering from a power failure, holiday setting will override the weekly timer setting. And time setting returns to default. To return to original setting, after time setting, execute "holiday cancel".
- ② Louver stops at the horizontal position.

### CAUTION

Make sure to stop the operation before turning off the power supply when the auto restart function is enabled. (If the power supply is turned off while the system is operating, the indoor unit fan will start immediately when the power supply is turned on. In addition, the outdoor unit starts operating 3 minutes after the power supply is turned on.)

## 15. 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, and do not attempt to do by yourself.

### INSTALLATION LOCATION

Is the system installed in a well-ventilated place?

Are there any obstacles? If so, it leads to the decrease of the efficiency and the increase of operation 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 :** **A leakage breaker is necessary depending on the installation environment.**  
If it is not mounted there, it may lead to electric shock.

Only qualified specialists of electrical and grounding work can do these works according to "electric equipment technical standards".

■ Is the wiring designated for the air conditioner?

■ Is the remote control mounted correctly?

- In the case of exposed wiring, is the wiring fixed with the attached 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).

## 16. OPERATION RANGE

**CAUTION** 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	FD series Inverter Packaged Air Conditioners Approximately -15 to 50°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	FD series Inverter Packaged Air Conditioners Approximately -20°C to 20°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.

## 17. DRED

### DRED

- This air conditioner complies with DRED standards as per AS/NZS4755.3.1. It supports demand response modes 1, 2 and 3 (DRM1, 2, and 3).

The outdoor unit of this air conditioner is equipped with a DRED-specific terminal block.

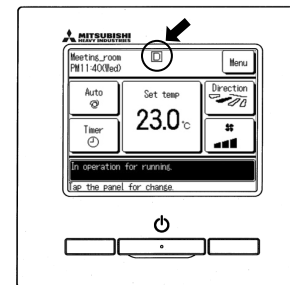
It also supports ELV(Extra-Low Voltage) as per AS/NZS60335.1.

Because the air conditioner is programmed to limit electrical power consumption when receiving the DRED input signal, cooling or heating capacity may be reduced.

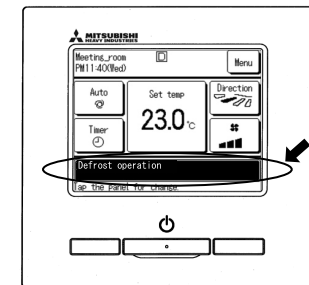
In DRED-enabled mode, a small "D" is displayed on the remote controller, as shown on the pictures below. When the defrost cycle becomes active during DRED operation, touch screen controller continue to display the DRED active "D" symbol.

However, the normal controller does not ; only "DEFROST" is displayed even though DRED mode remains active.

#### Display in DRED mode



#### Display in DRED mode during Defrost operation



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

**Explanation of symbols**

- : Conduct the cleaning and adjustment according to the inspection result
- ▲: In case of abnormality after inspection, replace or repair the corresponding part.
- ◆: Conduct the periodic replacement (consumable components)

\*The distinction between the indoor and outdoor assumes the air conditioner for a store and a multiple-air conditioner for a building. This may vary depending on the configuration of the unit, such as equipment air conditioner.

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

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



#### Explanation of symbols

- : Conduct the cleaning and adjustment according to the inspection result
- ▲ : In case of abnormality after inspection, replace or repair the corresponding part.
- ◆ : Conduct the periodic replacement (consumable components)

 : Random failure  
 : Wear-out failure


#### [Mainly outdoor parts and built-in components]

\*The distinction between the indoor and outdoor assumes the air conditioner for a store and a multiple-air conditioner for a building. This may vary depending on the configuration of the unit, such as equipment air conditioner.

Part Name			Regular Inspection			Preventive Maintenance*																	Remarks	
Part Name		Details of Inspection	Inspection Method	Criteria <Standard>	Details of Maintenance	Inspection Interval	Maintenance Interval (Used Hours/Duration)	Elapsed Years																
								1	2	3	4	5	6	7	8	9	10	11	12	13	14	15		
Structural component	Guard, etc.	- Check of peeling off and floating of paint coating - Check of fractures and cracks of plastic parts	Visual inspection	- There should be no extreme rust generation, cracks, fracture, etc.	- Paintwork by repair coating - Replace it if there is any damage, such as cracks and fracture	Every year Before the air conditioning season	8 years	<div><div></div></div>															Cleaning object item	
	Frame, bottom plate, etc.	- Check of rust and peeling off of the heat insulation material - Check of peeling off and floating of paint coating	Visual inspection	- There should be no extreme rust or damage of heat insulation material	- If the heat insulation material is peeled off, repair and stick it - Paintwork by repair coating		8 years	<div><div></div></div>															Cleaning object item	
	Vibration-proof rubber	- Check of deterioration and hardening of rubber	Visual and audible inspection	- Vibration insulation function should not be impaired	- Replace it when deteriorated or hardened		10 years	<div><div></div></div>																
Ventilation system parts	Fan Fan casing	- Visual check of vibration and balance - Check of dust adhesion and appearance	Visual inspection Visual inspection	- Should not be in an extremely vibrating condition - There should be no extreme rust or deformation	- Replace it in case of vibration and extreme unbalance - Clean with a brush or wash with water in case of extreme dust adhesion		10 years	<div><div></div></div>																
	Fan motor	- Sound audibility check - Insulation resistance measurement	Audible inspection 500 V mega	- There should be no abnormal sound generation - The resistance value should be 1 MΩ or more	- When a bearing sound is loud, replace the bearing - When the resistance value is 1 MΩ or less, replace the motor		20,000 Hr	<div><div></div></div>																
	Bearing	- Regular lubrication is required	Audible inspection	- There should be no abnormal sound generation	- Replace parts regularly		15,000 Hr	<div><div></div></div>															Consumable components	
Refrigerant system parts	Compressor	- Sound audibility and vibration at the start-up, operation, and stop - Insulation resistance measurement (after energizing the manufacturer designated time) - Looseness of terminals and contact of wiring	Visual, audible, and tactile inspection 500 V mega Driver, visual inspection	- There should be no abnormal sound or vibration - The resistance value should be 1 MΩ or more - There should be no looseness or contact	- Replace it if abnormal - Replace it if the resistance value is 1 MΩ or less - Retighten. Correction of wiring path		20,000 Hr	<div><div></div></div>																
	Air heat exchanger	- Check the clogging and damage due to foreign objects - Gas leakage	Visual inspection Gas detector	- There should be no clogging or damage - No leakage should be detected	- Wash the air inflow side in case of clogging - Repair or replace it when gas leakage is detected		5 years	<div><div></div></div>															Cleaning object item Due to atmospheric dirt	
	Piping in the unit	- Sympathetic vibration, contact, and corrosion of the piping in the unit - Sympathetic vibration and contact of capillary tube	Visual inspection	- There should be no abnormal sympathetic vibration, sound, or corrosion - There should be no abnormal sympathetic vibration or contact wear	- Replace it or readjust the piping when extremely corroded - Replace it or readjust the piping when extremely worn		20,000 Hr	<div><div></div></div>																
	Electronic expansion valve	- Operation check - Operation sound by power on/off (pressure check)	Tactile inspection Audible and tactile inspection	- Circulation of refrigerant should be felt - There should be driving sound and temperature change	- Replace it when locking occurs		20,000 Hr	<div><div></div></div>																
	Electromagnetic valve, four way switching valve, etc.	- Operation and insulation performances of electromagnetic valve, four way switching valve, etc. - Corrosion, abnormal sound	500 V mega Visual and audible inspection	- The resistance value should be 1 MΩ or more - There should be no abnormal sound or corrosion	- Replace it if the resistance value is 1 MΩ or less		20,000 Hr	<div><div></div></div>																
	Container, etc.	- Corrosion of accumulator, oil separator, etc.	Visual inspection	- There should be no abnormal corrosion	- Repair coating in case of corrosion generation		20,000 Hr	<div><div></div></div>																
	Protection device (security parts)	Pressure shutoff device	- Operation pressure, gas leakage, insulation resistance	Pressure gauge, etc.	- Operate it at a setting value - Observe the rules specified by the laws and regulations		- Replace it if it does not operate within the permissible range of setting values	25,000 Hr	<div><div></div></div>															
		Fusible plug	- Appearance check (swelling of fusible alloy)	Visual inspection	- The fusible alloy should be in a normal position		- Replace the device if fusible alloy is swelling out of the normal position	15,000 Hr	<div><div></div></div>															

**Explanation of symbols**


- : Conduct the cleaning and adjustment according to the inspection result
- ▲: In case of abnormality after inspection, replace or repair the corresponding part.
- ◆: Conduct the periodic replacement (consumable components)

 : Random failure  
 : Wear-out failure

Part Name		Regular Inspection		Preventive Maintenance*															Remarks			
Part Name	Details of Inspection	Inspection Method	Criteria <Standard>	Details of Maintenance	Inspection Interval	Maintenance Interval (Used Hours/Duration)	Elapsed Years															
							1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
Electric and electronic parts	Crankcase heater	- Conductivity check - Insulation resistance measurement - Appearance check	Tester 500 V mega Visual inspection	- It should be in a conducting state - The resistance value should be 1 MΩ or more - There should be no abnormality	- Replace it if it is not in a conducting state - Replace it if the resistance value is 1 MΩ or less	Every year Before the air conditioning season	8 years	<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div><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Note 1) Random fault is an unexpected failure which occurs before the wear is progressed, within the service life of the parts and equipment. It is difficult to establish a technological measure against the random fault. At the moment, statistical handling is the only measure against the random fault.

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

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

## EU DECLARATION OF CONFORMITY

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

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

**Description of apparatus: Split Type Air Conditioner**

**Model name:**

Conformity model list

[Indoor Unit]

Category
FDF Series

[Outdoor Unit]

Category
FDC-VNX-W Series
FDC-VSX-W Series
FDC-VNP-W Series
FDC-VNA-W Series
FDC-VSA-W Series

Relevant EU Directives :

**Machinery Directive 2006/42/EC**

Applied Standards :

**EN 378-2**

**EN 60335-1**

**EN 60335-2-40**

Authorized representative in EU :

**MHIAE SERVICES B.V.**

**Herikerbergweg 238, Luna Arena, 1101 CM Amsterdam, Netherlands**

**P.O.Box 23393 1100 DW Amsterdam, Netherlands**

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

## UK DECLARATION OF CONFORMITY

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

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

**Description of apparatus: Split Type Air Conditioner**

**Model name:**

Conformity model list

[Indoor Unit]

Category
FDF Series

[Outdoor Unit]

Category
FDC-VNX-W Series
FDC-VSX-W Series
FDC-VNP-W Series
FDC-VNA-W Series
FDC-VSA-W Series

Relevant GB Directives :

**Supply of Machinery (Safety) Regulations 2008 (S.I. 2008/1597)**

Applied Standards :

**EN 378-2**

**EN 60335-1**

**EN 60335-2-40**

Authorized representative in GB :

**MITSUBISHI HEAVY INDUSTRIES AIR-CONDITIONING EUROPE, LTD.**

**5 The Square, Stockley Park, Uxbridge, Middlesex, UB11 1ET, United Kingdom**

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



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