USER'S MANUAL

NEW UNI DC INVERTER

INDOOR CASSETTE UNITS ASC-xxAIN



"Original instructions"

Read the following carefully to assure safe use.



NOTE: Children should be supervised to ensure that they do not play with the appliance.



NOTE: This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.

1 Safety Precautions

| This mark indicates procedures which, if improperly performed, might lead to the death or serious injury of the user. | | | |
|---|--|--|--|
| This mark indicates procedures which, if improperly performed, might possibly result in personal harm to the user, or damage to property. | | | |

| Installation should be left to the dealer or another professional. Improper installation may cause water leakage, electrical shock, or fire. |
|--|
| Install the air conditioner according to the instructions given in this manual. Incomplete installation may cause water leakage, electrical shock, or fire. |
| Be sure to use the supplied or specified installation parts. Use of other parts may cause the unit to come to lose, water leakage, electrical shock, or fire. |
| 4). Install the air conditioner on a solid base that can support the weight of the unit. An inadequate base or incomplete installation may cause injury in the event the unit falls off the base. |
| 5). Electrical work should be carried out in accordance with the installation manual and the nationa electrical wiring rules or code of practice. Insufficient capacity or incomplete electrical work may cause electrical shock or fire. |
| 6). Be sure to use a dedicated power circuit. Never use a power supply shared by another appliance. |
| 7). For wiring, use a cable length enough to cover the entire distance with no connection. Do not use an extension cord. Do not put other loads on the power supply, use a dedicated power circuit (Failure to do so may cause abnormal heat, electric shock or fire.) |
| 8). Use the specified types of wires for electrical connections between the indoor and outdoor units Firmly clamp the interconnecting wires so their terminals receive no external stresses. Incomplete connections or clamping may cause terminal overheating or fire. |
| 9). After connecting interconnecting and supply wiring be sure to shape the cables so that they do no put undue force on the electrical covers or panels. Install covers over the wires. Incomplete cover installation may cause terminal overheating, electrical shock, or fire. |
| If any refrigerant has leaked out during the installation work, ventilate the room. (The refrigeran produces a toxic gas if exposed to flames.) |
| After all installation is complete, check to make sure that no refrigerant is leaking out. (The refrigerant produces a toxic gas if exposed to flames.) |
| 12). When installing or relocating the system, be sure to keep the refrigerant circuit free from substances other than the specified refrigerant (R410A), such as air. (Any presence of air or othe foreign substance in the refrigerant circuit causes an abnormal pressure rise or rupture, resulting in injury.) |
| 13). During pump-down, stop the compressor before removing the refrigerant piping. If the compressor is still running and the stop valve is open during pump-down, air will be sucked in when the refrigerant piping is removed, causing abnormal pressure in the freezer cycle which will lead to breakage and even injury. |

- (14). During installation, attach the refrigerant piping securely before running the compressor. If the compressor is not attached and the stop valve is open during pump-down, air will be sucked in when the compressor is run, causing abnormal pressure in the freezer cycle which will lead to breakage and even injury.
- (15). Be sure to establish an earth. Do not earth the unit to a utility pipe, arrester, or telephone earth. Incomplete earth may cause electrical shock, or fire. A high surge current from lightning or other sources may cause damage to the air conditioner.
- (16). Be sure to install an earth leakage breaker. Failure to install an earth leakage breaker may result in electric shocks, or fire.
- (17). This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.

(18). Children should be supervised to ensure that they do not play with the appliance.

(19). If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.

- (1). Do not install the air conditioner in a place where there is danger of exposure to inflammable gas leakage. If the gas leaks and builds up around the unit, it may catch fire.
- (2). Establish drain piping according to the instructions of this manual. Inadequate piping may cause flooding.
- (3). Tighten the flare nut according to the specified method such as with a torque wrench. If the flare nut is tightened too hard, the flare nut may crack after a long time and cause refrigerant leakage.

2 Outline of the Unit and Main Parts



Fig.1

1 User notice

| 1 | Make sure there is no obstruction between the wireless remote controller and the signal |
|---|--|
| | receiver. |
| 2 | The signal receiving distance of the wireless remote controller can be up to 10 metres. |
| 3 | Never drop or throw the wireless remote controller. |
| 4 | Never let any liquid flow into the wireless remote controller. |
| 5 | Never expose the wireless remote controller under the sunlight directly or where it is very |
| | hot. |
| 6 | This is a general remote control, it could be used for multiple types (functions) of air |
| | conditioners. For some models without the functions specified here, we preserve the right to |
| | not to inform exclusively. |

2 Control panel of the wireless remote controller



Note: This remote controller is universal and can be used for multi-functional air conditioning. If the button on the remote controller with the function which the air conditioner doesn't have is pressed, the unit remains in its original operating mode.

| No. | Name | Function Description |
|-----|-----------------------|--|
| 0 | Signal transmitter | Signal transmitter |
| 2 | ON/OFF button | • Press this button, and the unit will be turned on; press it once more, and the unit will be turned off. When turning off the unit, the Sleep function will be canceled, but the presetting time is still remained. |
| 3 | MODE button | By pressing this button, Auto, Cool, Dry, Fan, Heat mode can be selected circularly. Auto mode is default after power on. Under the Auto mode, the setting temperature will not be displayed; Under the Heat mode, the initial value is 28°C (82°F);Under other modes, the initial value is 25°C(77°F). |
| | - button | • Preset temperature can be decreased by pressing this button. Pressing and holding this button for more than 2 seconds can make the temperature changed quickly until release this button and then transmit this order. The temperature adjustment is unavailable under the Auto mode, but the order can be sent by pressing this button. Centigrade setting range: 16-30; Fahrenheit scale setting range 61-86. |
| 4 | + button | • Preset temperature can be increased by pressing this button. Pressing and holding this button for more than 2 seconds can make the temperature changed quickly until release the button and then transimit this order. The temperature adjustment is unavailable under the Auto mode, but the order can be sent by pressing this button. Centigrade setting range: 16-30; Fahrenheit scale setting range 61-86. |
| 5 | FAN button | By pressing this button, Auto, Low, Middle, High speed can be circularly selected. After power on, Auto fan speed is default. AUTO Low speed Middle speed High speed Note: Under the DRY mode, the fan will be kept running at the low speed and the fan speed isn't adjustable. |

| 6 | SWING UP/DOWN button | Press this button to set up the swing angle, which circularly changes as below: ⇒ → → → → → → → → → → → → → → → → → → → |
|---|----------------------------|--|
| 1 | CLOCK button | • By pressing this button, the clock is allowed to be set, with blinking, and then press the +/- button to adjust the clock within 5 seconds. If the +/-button is pressed down constantly for more than 2 seconds, the clock setting will be increased or decreased 10 minutes every 0.5 seconds. After that, another press on the CLOCK button accepts the setting. 12:00 is the default, when the wireless remote controller is energized. |
| 8 | TIMER ON button | • When TIMER ON is activated, ON will blink while the symbol 🕒 will disappear. Within 5 seconds it is allowed to set the ON time by pressing the +/- button. Each press will make the time increase or decrease one minute. Besides, the time can also be set by pressing the +/- button constantly. that is, in the early 2.5 seconds, the time will increase/ decrease quickly per single minute, and in the late 2.5, the time will increase/decrease per ten minutes. After the desired time value is set, press TIENE ON again to conform the setting within five seconds. After that, another press on TIMER ON will cancel the setting. Prior to this setting, the clock shall be set to the actual time. |
| 9 | X-FAN button | • Pressing this button can activate or deactivate the X-FAN function. In Cool or Dry mode, by pressing this button,if "">" is displayed, it indicates the X-FAN function is activated. By repressing this button, if "">" disappears, it indicates the X-FAN function is deactivated. After energization, X-FAN OFF is defaulted. If the unit is turned off, X-FAN can be deactivated but can't be activated. |

| Û | TEMP button | By pressing this button it is allowed to select displaying the indoor setting temperature or the indoor ambient temperature. Indoor setting temperature is default after the indoor unit is energized initially. By pressing the TEMP button, when the temperature symbol is displayed, the indoor displayer will show the indoor setting temperature; when is displayed, it will show the indoor ambient temperature; when is invalidation, If current displays indoor ambient temperature, if received the other remote control signal, it will display presetting temperature, 5s later, will back to display the ambient temperature. (This function is applicable to partial of models) | | | |
|----|---------------------|---|--|--|--|
| 0 | TIMER OFF button | • By pessing this button it is available to go to the TIMER OFF settting state with the same setting method as that of the TIMER ON, in which case the OFF symbol blinks. | | | |
| 12 | TURBO button | In the Cool or Heat mode, pressing this button can activate or deactivate the TURBO function. When the TURBO function is activated, its symbol will be displayed; when the running mode or the fan speed is changed, this function will be canceled automatically. (This function is applicable to partial of models). | | | |
| 18 | SLEEP button | • By pressing this button, Sleep On and Sleep Off can be selected. After powered on, Sleep Off is defaulted. Once the unit is turned off, the Sleep function is canceled. When Sleep is set to On, the symbol of SLEEP (: will display.Under the Fan and Auto modes, this function is not available. | | | |
| 14 | LIGHT button | • Press this button to select LIGHT on or off in the displayer. When the LIGHT is set to on, the icon 🖧 will be displayed and the indicating light in the displayer will be on. When the LIGHT is set to off, the icon 🆧 will be disappeared and the indicating light in the displayer will be off. | | | |

3 Introduction for special function

• About X-FAN function (This function is applicable to some special models)

This function indicates that moisture on evaporator of indoor unit will be blowed after the unit is stopped to avoid mould.

This function indicates that moisture in the evaporator of the indoor unit will be blew out after the unit is stopped so as to avoid mould.

① With X-FAN function ON: After turning off the unit by pressing ON/OFF button indoor fan will continue running for severval minutes at low speed. In this period, press X-FAN button to stop indoor fan directly.

O With X-FAN function OFF:After turning off the unit by pressing ON/OFF button, the complete unit will be off directly.

• About TURBO function (This function is applicable to some special models)

If the TURBO function is activated, the unit will run at high fan speed to perform cooling or

heating quickly so that the ambient temperature will approach the preset temperature as soon as possible.

About lock

Press + and - buttons simultaneously to lock or unlock the keyboard. If the wireless remote controller is locked, the icon is will be displayed on it, in which case, any press will get no response but with the mark blinking for three times. If the keyboard is unlocked, the mark will disappear.

About SWING UP/DOWN

① Press the Swing Up/Down button for more than 2 seconds and then the louvre will swing up and down. After releasing the button, the louvre will stop swinging and keep the current status.

⁽²⁾ When the louvre starts swinging, by pressing the Swing Up/Down button 2 seconds later, the louvre will stop swinging directly; while, by pressing the Swing Up/Down button within 2 seconds, the louver will keep swinging.

About Change over switch between Fahrenheit and Centigrade

Under the OFF state of the unit, press MODE and - buttons simultaneously to switch between $^\circ\text{C}$ and $^\circ\text{F}.$

4 Replacement of batteries

● Slightly press the place with wireless remote controller.

② Take out the used batteries.

S Insert two new AAA 1.5V dry cell batteries and pay attention to their polarity.

Out back the cover of the wireless remote controller.



Notes!

① When changing the batteries, do not use the used or different-type batteries, otherwise, it would cause some malfunction to the wireless remote controller.

② If the wireless remote controller will not be used for a long time, please take them out, and don't let the battery liquid damage the wireless remote controller.

③ The operation should be within the signal receiving range.

4 4 It should be placed 1m away from the TV set or stereo sound sets.

(5) If the wireless remote controller can not operate normally, please take batteries out for 30s. If the anomaly persists, please change them.

(6) The battery must be removed from the appliance before it is scrapped. The batteries is to be disposed of safely.

1 Introduction to the Wired Controller



Fig.1 Appearance of the Wired Controller

1.1 Appearance and LCD Icons



1.2 Introduction to the LCD Icons

Table 1

| No. | Icons | Introduction |
|-----|--------------|---|
| 1 | 示 | Left and right swing function |
| 2 | 釟 | Up and down swing function |
| 3 | ∽ x | Air exchange function |
| 4 | € *= | Sleep function |
| 5 | \bigcirc | Auto mode |
| 6 | * | COOL mode |
| 7 | د د | DRY mode |
| 8 | Ś | FAN mode |
| 9 | 谷 | HEAT mode |
| 10 | Â | Health function |
| 11 | | I-Demand function |
| 12 | | Vacation function |
| 13 | | Status display of master and slave wired controller |
| 14 | SHIELD | Shield function The button operation, temperature setting, "On/Off" operation, "Mode" setting, and "Save" setting are disabled. |
| 15 | | Fan speed |
| 16 | MEMORY | Memory function The unit will resume the original setting state after power recovery. |
| 17 | TURBO | Turbo function |
| 18 | SAVE | Energy-saving function |
| 19 | 8:88°₅ | Ambient/setting temperature |

| 20 | E-HEATER | Electric heater |
|----|----------|--|
| 21 | BLOW | Blow function |
| 22 | *:: | Defrosting function |
| 23 | FILTER | Filter cleaning |
| 24 | | Timer Setting |
| 25 | ں | Keycard control / Detected status sensed by human body |
| 26 | QUIET | Quiet function |
| 27 | | Lock function |

2 Press Buttons

2.1 Buttons



2.2 Instruction to the Function of Press Buttons

Table 2

| No. | Press Buttons | Function Introduction |
|-------------------|---------------|---|
| 1 | Enter/Cancel | Function selection and canceling; Press it for 5s to enquiry the outdoor and indoor ambient temperature. |
| 2 | • | Running temperature setting of indoor unit, range :16~30°C Timer setting, range:0.5-24hr Air function participation |
| 6 | • | ③ . All function setting ④ . Save setting ⑤ . Clean setting |
| 3 | Fan | Select fan speed from high, mid-high, middle, mid-low, low and auto levels. |
| 4 | Mode | Selection of the COOL, HEAT, FAN or DRY mode. |
| 5 | Function | Switchover among these functions of SWING/AIR/SLEEP/HEALTH/ I-DEMAND/VACATION/TURBO/SAVE/E-HEATER/BLOW/QUIET |
| 7 | Timer | Timer setting |
| 8 | On/Off | Turn on/off indoor unit |
| 4 mode and 2 ▲ | Memory | Press Mode and ▲ at the same time for 5s under the OFF state of the unit to activate/deactivate memory function (If memory is set, indoor unit will resume original setting state after power recovery. If not, indoor unit is defaulted to be OFF after power recovery. Memory function is defaulted to be ON) |
| 2 ▲ and 6 ▼ | Lock | Under the ON state of the unit without any malfunction or under the OFF state of the unit, press ▲ and ▼ buttons at the same time for 5s to go to the lock state. In this case, any other buttons won't respond the press. Repress ▲ and ▼ again for 5s to quit the lock state. |
| 4 mode and 6 ▼ | °F/°C | Under the OFF state of the unit, press the Mode and ▼ at the same time for 5s to switch the temperature scale between Celsius and Fahrenheit. |

3 OPERATION INSTRUCTION

3.1 On/off

Press the On/Off button to turn on or off the unit.

Notes:

- 1 . The state shown in Fig.4 indicates the OFF state of the unit after energization.
- 2 . The state shown in Fig.5 indicates the ON state of the unit after energization.



Fig.4 OFF State of the Unit



Fig.5 ON State of the Unit

3.2 Mode Setting

Under the ON state of the unit, press the Mode button to switch the operation modes as the sequence shown in Fig.6:



Fig.6

3.3 Temperature Setting

Press \blacktriangle or \checkmark button to increase or decrease setting temperature under on-state of the unit. If press either of them continuously, temperature will be increased or decreased by 1°C every 0.5s.

In Cooling, Dry, Fan and Heating mode, temperature setting range is 16°C~30°C.

In Auto mode, the setting temperature is un-adjustable.

As shown in Fig.7:



Fig.7 Temperature Setting

3.4 Fan Speed Setting

Press Fan button, fan speed of indoor unit will change as the sequence shown in Fig.8:



Fig.8 Fan Speed Setting

3.5 Right and Left Swing

Under the ON state of unit, press the Function button to select the "Right and Left Swing" function option and then press the Enter/Cancel button to activate it.

When the Swing function is activated, press the Function button to select the "Right and Left Swing" function option and then press the Enter/Cancel button to deactivate it.

Right and Left Swing function setting is as shown in Fig.9.



Unit On, no left-right swing



Press "Function" button to set left-right swing function



Press "Enter/Cancel" button to activate left-right swing function



Press "Enter/Cancel" button to cancel left-right swing function

Fig.9 Right and Left Swing Setting



Press "Function" button to set left-right swing function

3.6 Up and Down Swing

Under the ON state of unit, press the Function button to select the "Up and Down Swing" function option and then press the Enter/Cancel to activate it.

When the Swing function is activated, press the Function button to select the "Up and Down Swing" function option and then press the Enter/Cancel button to deactivate it.

Up and Down Swing function setting is as shown in Fig.10.



Unit On, no up-down swing



Press "Function" button to set up-down swing function



Press "Enter/Cancel" button to activate up-down swing function



Press "Enter/Cancel" button to cancel up-down swing function

Fig.10 Up and Down Swing Setting



Press "Function" button to set up-down swing function

3.7 Timer Setting

Timer "On" Setting:

It is intended to set when to start the unit. When the unit is OFF, press the Timer button, with xx. Hour displayed and ON blinking, then press \blacktriangle/∇ to adjust the timer, after that, press the Timer button again to make a confirmation. If the Mode button is pressed prior to the confirmation, it will switch to the Timer Off setting. After the timer Off setting, the LCD displays xx. Hour ON OFF,xx. Hour indicating the time to start the unit, while the time to stop the unit won't be displayed.

Timer "Off" Setting:

It is intended to set when to stop the unit. When the unit is On, press the Timer button, with xx. Hour displayed and OFF blinking, then press \blacktriangle/∇ to adjust the timer, after that, press the Timer button again to make a confirmation. If the Mode button is pressed prior to the confirmation, it will switch to the Timer On setting. After the timer On setting, the LCD displays xx. Hour ON OFF,xx. Hour indicating the time to stop the unit, while the time to start the unit won't be displayed. Cancellation of Timer Setting: The timer setting can be canceled by press "Timer". Then , xx. Hour won't be displayed.

Timer Setting under the ON state of the Unit is as shown in Fig.11:



Press "timer" button to activate timer function

Press "▲" or "▼"button to adjust timer time

Press "Mode" button to set timer on

Fig.11 Timer Setting under the ON state of the Unit

Timer range: 0.5-24hr. Every press of the \blacktriangle or \bigtriangledown button will make the setting time increased or decreased by 0.5hr. If press either of them continuously, the setting time will automatically increase/ decrease by 0.5hr every 0.5s.

Notes:

- (1). When Timer On and Timer Off both are set, the displayed time is the Timer On setting for the unit under the OFF state , or is the timer Off setting for the unit under the ON state .
- ② . Timer On setting starts when the unit under the ON state is turned off; Timer Off setting starts when the unit under the OFF state is turned on.

3.8 Air Exchange Setting

How to activate the air exchange function:

Under the ON state of the unit, press the Function button to select the "AIR" function, with the function symbol flashing, and then press \blacktriangle or \blacktriangledown to adjust the "AIR" type, after that, press the Enter/Cancel button to activate this function. When this function is activated, the symbol will be displayed. Type 1 is the defaulted "AIR" type.

There are 10 "AIR" function types , but only 1-2 types are for the wireless remote controller.

1—The unit continuously runs for 60min, and fresh air valve runs for 6 min.
2—The unit continuously runs for 60min, and fresh air valve runs for 12 min.
3—The unit continuously runs for 60min, and fresh air valve runs for 18 min.
4—The unit continuously runs for 60min, and fresh air valve runs for 2 4 min.
5—The unit continuously runs for 60min, and fresh air valve runs for 30 min.
6—The unit continuously runs for 60min, and fresh air valve runs for 36 min.
7—The unit continuously runs for 60min, and fresh air valve runs for 36 min.
7—The unit continuously runs for 60min, and fresh air valve runs for 42 min.
8—The unit continuously runs for 60min, and fresh air valve runs for 48 min.
9—The unit continuously runs for 60min, and fresh air valve runs for 54 min.
10—The unit continuously runs for 60min, and fresh air valve always runs.
How to deactivate the air exchange function:

When the "Air" function is activated, it can be deactivated in the way by firstly pressing the Function button to select the "Air" function option with the "Air" symbol flashing, and then pressing the Enter/Cancel button with the "Air" symbol disappeared.

Air Exchange setting is shown as in Fig.12:



Unit On, no Air function



Press "Function" button to set air function



Press "▲" or "▼"button to adjust air mode



Press "Enter/Cancel" button to cancel air function



Press "Function" button to set air function

Fig.12 Air Exchange Setting



Press "Enter/Cancel" button to activate air function

3.9 Sleep Setting

Sleep on: Press the Function button under the ON state of the unit to select the "Sleep" function option and then press the Enter/Cancel button to activate it.

Sleep off: When the Sleep function is activated, press the Function button to select the Sleep function option and then press the Enter/Cancel button to deactivate this function.

Sleep setting is as shown in Fig.13 :



Unit On, no Sleep function



Press "Function" button to set sleep function



Press "Enter/Cancel" button to activate sleep function

Mode

On/Off

Far

Press "Function" button to

set sleep function

Enter



Press "Enter/Cancel" button to cancel sleep function

Fig.13 Sleep Setting

Notes:

- ① . The Sleep function is defaulted to be OFF after power recovery.
- ② . The Sleep function is unavailable under the Fan mode.
- ③ . When the Quiet function is activated, the Quiet function will always keep ON no matter if the Sleep function is activated or deactivated.
- ④ . Under the Cool mode, the Sleep function is ON, the setting temperature range can be 16~23°C, 24~27°C, 28~29°C or 30°C. Each of them has a different curve as shown in Fig.14.

e.g. If the setting temperature is 25°C, the temperature will rise by 1°C in each hour until it reaches 27°C. 7 hours later, the temperature will drop to 26°C. After that, the unit will run at this temperature.



Fig.14 Sleep Curve under the COOL Mode

Under the Heat mode, the Sleep function is ON, the setting temperature range can be 16°C, 17~20°C, 21~27°C or 28~30°C. Each of them has a different curve as shown in Fig.15.

e.g. If the setting temperature is 22°C, the temperature will drop by 1°C in each hour until it reaches 20°C. Then, the unit will run at this temperature



Fig.15 Sleep Curve under the HEAT Mode

æ

Mode

3.10 Health Setting

Under unit on status, press "Function" button to select health function with "Health" icon flashing. Press "Enter/Cancel" button to activate health function.

When health is on, press "Function" button to set function, with "health" icon flashing. Then press the "Enter/Cancel" button to cancel health function.

How to set health function is shown in the Fig.16:



Unit On. no Health function



Press "Function" button to set health function



health function

Press "Function" button to set

Press "Enter/Cancel" button to cancel health function

287.

Mode

Fig.16 Health Setting

Note:

- ①. The health function can be cancelled by turning off the unit.
- 2. The health function can not be cancelled by mode switching.

Enter/Ca

③. After the unit is resumed, health function will be maintained.

3.11 I-Demand Setting

Under cooling mode, press "Function" button to select I-Demand function with "I-Demand" icon flashing. Press "Enter/Cancel" button to activate I-Demand function.

When I-Demand is on, press "Function" button to set function, with "I-Demand" icon flashing. Then press the "Enter/Cancel" button to cancel I-Demand function.

How to set I-Demand function is shown in the Fig.17:



Unit On, no I-Demand function



Press "Function" button to set I-Demand function



Press "Enter/Cancel" button to cancel I-Demand function

Fig 17 I-Demand Setting



Press "Enter/Cancel" button to activate I-Demand function



Press "Function" button to set I-Demand function

Note:

- ①. The I-Demand function can be cancelled by mode switch and unit ON/OFF.
- 2 . After the unit is resumed, I-Demand function will be maintained.
- ③ . The I-Demand function can not be simultaneously set and can be cancelled by Sleep/Quiet function.
- ④. When the I-Demand function is set, the unit will run as per Auto fan speed. The Turbo fan speed is not available.
- ⑤ . When the I-Demand function is set, the setting temperature 27°C can not be changed.
- ⑥. When the setting temperature is shielded by the distant control, I-Demand function can not be entered.

3.12 Vacation Setting

Vacation function: It's used to keep the indoor ambient temperature and activate fast heating.

Under heating mode, press "Function" button to select Vacation function with "Vacation" icon flashing. Press "Enter/Cancel" button to activate Vacation function.

When Vacation is on, press "Function" button to set function. Then press the "Enter/Cancel" button to cancel Vacation function with no icon flashing.

How to set vacation function is shown in the Fig.18:



Unit On, no Vacation function

Enter/Cancel Fan Mode Fune Timer On/Off

Press "Function" button to set vacation function



Press "Enter/Cancel" button to cancel vacation function

Fig.18 Vacation Setting



Press "Enter/Cancel" button to activate vacation function



Press "Function" button to set vacation function

Note:

- $(\ensuremath{\mathbbm l})$. The vacation function can be only set under heating mode.
- $\ensuremath{\textcircled{0}}$. The turbo function will be cancelled when the vacation function is set.
- ③ . The Sleep and Quiet function will be cancelled when the vacation function is set.
- ④. After the unit is resumed, the vacation function will be maintained.
- ⑤ . When the vacation function is set, the setting temperature can not be shielded by the distant control. In reverse, the vacation function can not be set when the distant shielding is taking into effect.
- (6). When the vacation function is set, the setting temperature shown on the wired controller is 8°C. The indoor fan will automatically run as per Auto fan speed.
- The vacation function can be cancelled when there is mode switching. The temperature will go back to the original setting temperature prior to vacation function.
- \circledast . Unit ON/OFF will not cancel the vacation function.

3.13 Turbo Function Setting

TURBO function: The unit at the highest fan speed can realize quick cooling or heating so that room temperature can quickly approach the setting temperature.

In the COOL or HEAT mode, press the Function button to select the "Turbo" function option and then press the Enter/Cancel button to activate it.

When the "Turbo" function is activated, it can be deactivated by firstly pressing the Function

button to select the "Turbo" option and then pressing the Enter/Cancel button.

Turbo function setting is as shown in Fig.19:



Unit On, no Turbo function



Press "Function" button to set turbo function





Press "Enter/Cancel" button to activate turbo function





Press "Enter/Cancel" button to cancel turbo function

Fig.19 Turbo Function Setting

Press "Function" button to set turbo function

Notes:

- ① . The Turbo function will not be deactivated due to power failure. In DRY, FAN and AUTO modes, the Turbo function is unavailable and the function symbol won't be displayed.
- 2 . The Turbo function will be automatically deactivated as the Quiet function is activated.
- ③. The FAN button can also be used to adjust Turbo function.

3.14 SAVE Function Setting

Energy Saving Function: Energy saving can make the air conditioner runs in a smaller temperature range by setting lower limited value of setting temperature in the COOL or DRY mode and upper limited value in the HEAT mode.

(1). Energy Saving Setting for Cooling

When the unit runs under the COOL or DRY mode, press the Function button to select the "SAVE" function option, with "SAVE" flashing, and then press \blacktriangle or \triangledown to adjust the lower limit, after that, press the Enter/Cancel button to activate this function.

(2). Energy Saving Setting for Heating

When the unit runs under the HEAT mode, press the Function button to select the "SAVE" function option, with "SAVING" flashing, then press the Mode button to switch to the "SAVE" setting for the HEAT mode and then press ▲ or ▼ to adjust the upper limit, after that, press the Enter/

Cancel button to activate this function.

The activated SAVE function can be deactivated by firstly pressing the "Function" button to select the "SAVE" option and then pressing the "Enter/Cancel" button.

The energy saving setting is as shown in the Fig.20:



Unit On, no Save function

28.

Mode

On/Off



Press "Function" button to set energy-saving temperature for Cooling







Press "Mode" button to set

energy-saving temperature

for Heating.

Press "Enter/Cancel" button to activate save function

Press "▲" or "▼"button to adjust temperature

Fig.20 SAVE Function Setting

Notes:

- Under the Auto mode, when the "SAVE" function is activated, the unit will forcibly quit the Auto mode and change to the current operation mode. Further, the "Sleep" function will be deactivated when the "SAVE" function is activated.
- ② . During the "SAVE" setting, if the Function button is pressed down or there is not any operation within 5s after the last button operation, the system will quit the "SAVE" setting with the current setting data not saved.
- \circledast . The "SAVE" function setting will be memorized in case of power failure.
- 4 . The lower limit for cooling is 16 °C and the upper limit for heating is 30°C.
- ⑤ . During the "SAVE" setting, if the expected setting temperature is out of the limit, then the limit temperature always prevail.

3.15 E-HEATER Setting

E-HEATER: in the HEAT mode, "E-HEATER" function is allowed to be activated to improve the heating efficiency. Generally, it will be activated automatically as the unit goes into the HEAT mode through any button operations .

Activation of the "E-HEATER" Function: firstly press the Function button to select the "E-HEATER" option, with the symbol "E-HEATER" flashing, and then press the Enter/Cancel button to activate it. After the activation, the symbol "E-HEATER" will always be displayed.

Deactivation of the "E-HEATER" Function: firstly press the Function button to select the "E-HEATER" option, with the symbol "E-HEATER" flashing, and then press the Enter/Cancel button to deactivate it.

"E-HEATER" Function setting is as shown in Fig.21:



Unit On, no E-heater function



Press "Function" button to set E-heater function



Press "Enter/Cancel" button to activate E-heater function

28.

Fan

Mode

On/Off

T

Enter/C



Press "Enter/Cancel" button to cancel E-heater function

Press "Function" button to set E-heater function

Fig.21 "E-HEATER" Function Setting

Note: The "E-HEATER" function is not available in the COOL, DRY, and FAN modes, with the symbol "E-HEATER" not displayed.

3.16 Blow Function Setting

BLOW function: After the unit is turned off, water in evaporator of indoor unit will be automatically evaporated to avoid mildew.

Activation of the "Blow" Function: in the COOL or DRY mode, press the Function button to select the "Blow" option, with the symbol "BLOW" flashing, and then press the Enter/Cancel button to activate it.

Deactivation of the "Blow" Function: The activated "Blow" function can be deactivated by firstly pressing the Function button to select the "Blow" option and then pressing the Enter/Cancel button. BLOW function setting is as shown in Fig.22:



Unit On, no Blow function



Press "Function" button to set blow function





activate blow function



Press "Enter/Cancel" button to cancel blow function

Fig.22 Blow Function Setting

Press "Function" button to set blow function

Notes:

- ① . When the "Blow" function is activated, if the unit is turned off through the On/Off button, the indoor fan will still run at low fan speed for another 10 minutes. When the "Blow" function is deactivated, the indoor fan will stop directly as the unit is turned off.
- 2 . The "Blow" function is not available in the FAN and HEAT modes.

3.17 Filter Setting

Under On status, press "Function" button to set "Filter" function with "Filter" icon flashing. The setting pollution level will be shown at the Timer area. Press "▲" and "▼" to adjust pollution level and press "Enter/Cancel" button to activate Filter function.

When the Filter function is set, press "Function" button to set with "Filter" icon flashing. Press "▲" and "▼" to adjust till "00" is shown on the timer area. Then press "Enter/Cancel" button to cancel the Filter function.

How to set Filter function is shown in the Fig.23:



Unit On, no Filter function



Press "Function" button to set filter function



Press "▲" or "▼"button to set the pollution level



Press "▲" or "▼"button to set "00" shown at the timer area



Press "Function" button to set filter function



Press "Enter/Cancel" button to activate filter function



Press "Enter/Cancel" button to cancel filter function

Fig.23 Filter Setting

While setting Filter, two numbers will be shown on the timer area. The first number represents the pollution level. The second number shows the accumulated operating time of the indoor fan. There are four statuses in total:

- ① . No Filter function setting ("00" shown at the timer area)
- ② . When the filter reaches light-level pollution, "1" will be shown at the first place, When "0" shows up at the second place, the accumulated operating hour reaches 5500h. Every increase of the number means another 500h is accumulated. When "9" shows up, it means the operating hour reaches 10000h.
- ③. When the filter reaches middle-level pollution, "2" will be shown at the first place, When

"0" shows up at the second place, the accumulated operating hour reaches 1400h. Every increase of the number means another 400h is accumulated. When "9" shows up, it means the operating hour reaches 5000h.

④ . When the filter reaches serious-level pollution, "3" will be shown at the first place, When "0" shows up at the second place, the accumulated operating hour reaches 100h. Every increase of the number means another 100h is accumulated. When "9" shows up, it means the operating hour reaches 1000h.

Pollution level with corresponding operating hour:

| Pollution | Accumulated operating | Pollution | Accumulated operating | Pollution | Accumulated operating |
|-----------|-----------------------|-----------|-----------------------|-----------|-----------------------|
| level | time (h) | level | time (h) | level | time (h) |
| 10 | 5500 | 20 | 1400 | 30 | 100 |
| 11 | 6000 | 21 | 1800 | 31 | 200 |
| 12 | 6500 | 22 | 2200 | 32 | 300 |
| 13 | 7000 | 23 | 2600 | 33 | 400 |
| 14 | 7500 | 24 | 3000 | 34 | 500 |
| 15 | 8000 | 25 | 3400 | 35 | 600 |
| 16 | 8500 | 26 | 3800 | 36 | 700 |
| 17 | 9000 | 27 | 4200 | 37 | 800 |
| 18 | 9500 | 28 | 4600 | 38 | 900 |
| 19 | 10000 | 29 | 5000 | 39 | 1000 |

Table 3

Note:

①. If the Filter function is effectively set, the **FILTER** icon will light up.

- ② . If it is not necessary to clean the filter, no matter whether the setting is changed or not, the unit will not restart to timing while pressing "Enter/Cancel" button.
- ③ . If the filter should be cleaned, under On/OFF status, the FITER icon will blink once every 0.5s so as to remind user to clean the filter. Press "Function" button to set with icon FITER flashing. Press "▲" and "▼" to adjust pollution level, and then press "Enter/Cancel" button to activate it. If the setting pollution level is lighter than before, the icon FITER will keep flashing. If the setting pollution level is more serious, the icon FITER will go out, and the Filter function will keep on working.
- ④. The only method to cancel Filter function is, when the function is set with icon **fitter** flashing, let "00"shown at the timer area, at this time, the accumulated time will be zero clearing.

3.18 Quiet Function Setting

Press "Function" button to set Quiet function with its icon flashing. Press "Enter/Cancel" button to activate Quiet function.

When the quiet function is On, press "Function" button to set with Quiet icon flashing, press "Enter/Cancel" button to cancel Quiet function.

How to set Quiet function is set in the Fig. 24:



Unit On, no Quiet function

Enter/Cancel Fan Mode

Press "Function" button to set quiet function



Press "Enter/Cancel" button to cancel quiet function

Fig.24 Quiet function setting



Press "Enter/Cancel" button to activate quiet function



Press "Function" button to set quiet function

Notes:

- ①. "QUIET" function is unavailable in Fan or Dry mode. Owing to power failure, the "Quiet" function is defaulted to be deactivated.
- 2 . If quite function is set, turbo function will be canceled.

3.19 Ultra-Dry Setting

Under Dry mode, when the setting temperature is 16°C, press "▼" button twice and the setting temperature will be changed to 12°C, at this time, the unit enters the Ultra-Dry function.

When the Ultra-Dry function is activated, it can be cancelled by pressing "▲" button or pressing "Mode" button to switch mode.

3.20 Other Functions

3.20.1 Lock Function

Under the ON state of the unit without any malfunction or under the OFF state of the unit, press ▲ and ▼buttons at the same time for 5s till the wired controller enters the lock state. In this case, LCD displays . After that, repress these two buttons at the same time for 5s to quit the lock state.

Under the lock state, no response will be given to the other button operation.

3.20.2 Memory Function

Memory switchover: Under the OFF state of the unit, press the Mode and ▲ buttons at the same time for 5s to switch memory modes. When setting the memory mode, "MEMORY" will be displayed. If this function is deactivated, the unit will go to the OFF state after power recovery.

Memory recovery: If the memory function is On, the wired controller after power failure will resume its original running state upon power recovery.

Note: It will take about 5 seconds to save data. Therefore, please do not cut down the power at this time, or data will fail to be saved.

3.20.3 Selection of Centigrade and Fahrenheit

Under the OFF state of the unit, press the Mode and ▼ buttons at the same time for 5s, Centigrade and Fahrenheit scales will be switched alternately.

3.20.4 Ambient Temperature Enquiry

Under On/Off status, press "Confirm" button for 5s, it will enter Enquiry interface. At this time, what shows on the timer area is the ambient temperature type: 01 or 02 and the temperature will be shown. "01" means the outdoor ambient temperature and "02" represents the indoor ambient temperature. Press "Mode" button to switch between those two types. Press any other button except Mode button or receive the signal from the remote controller will quit from the Enquiry function. If there is no operation in 20s, the unit will quit from this function automatically. Note:

- ①. If the unit is not connected with the ambient temperature sensor, after 12h electrification, the display of the ambient temperature sensor will be shielded.
- ②. If the outdoor temperature sensor has error, after 12h electrification, the display of the ambient temperature sensor will be shielded.

3.20.5 Indoor fan shutdown mode setting

Under unit OFF status, simultaneously press "Function" and "Timer" button for 5s, the wired controller will enter parameter setting interface. Press "Mode" button to set till "05" is shown on the temperature displayed area. Then the unit will enter the indoor fan shutdown mode.

Two options are available for the indoor fan shutdown mode:

Mode 1: When the temperature reaches certain value, the indoor fan will not be shut down at any mode except heating mode. After the unit is shut down, for the duct type unit and the floor ceiling type unit, the indoor fan will blow the extra heat for 60s and then stop running. For the cassette type unit, its indoor fan will operate at low fan speed and blow the extra heat for 60s only when error happens to it.

Mode 2: No matter the unit is under which mode, the indoor fan will keep running for 10s after the temperature reaches certain value, then it will stop.

Press "▲" or "▼" button to adjust the mode. Under Mode 1/2, "00"/ "01" will show up in the timer area. Then press "Enter/Cancel" button to save the settings. The setting procedures are shown as Fig.25:



Unit off



Simultaneously press "Function" and "Timer" button for 5s, the wired controller will enter parameter setting interface.



Press "Mode" button to set till "05" is shown on the temperature displayed area. Then the unit will enter the indoor fan shutdown mode.



Press "Enter/Cancel" button to save the settings and quit from the interface.



Press "▲" or "▼" button t adjust the mode.



Note: In the parameter setting interface, only when "05" shown on it, the indoor fan shutdown mode can be set. Other parameters are not allowed to be modified and our company is not responsible for the unit damage or property loss due to parameter changed by customers.

4 Installation of the Wired Controller

4.1 Standard Parts



Fig.26 Standard Parts of the Wired Controller

Table 4 Standard Parts

| No. | Description | Quantity |
|-----|-------------|----------|
| 1 | Base Box | 1 |
| 2 | Soleplate | 1 |
| 3 | Screw M4×25 | 2 |
| 4 | Front Panel | 1 |

4.2 Installation Location and Installation Requirements

- (1). Do not install the wired controller in the damp place or under direct sunlight.
- (2). Do not install the wired controller close to the hi-temperature object or place where the wired controller is likely to suffer water spray.
- (3). Do not install the wired controller directly opposite to the window so as to avoid improper operation caused by the interference of the neighbor's same model wired controller.
- (4). Please cut off the power supply of wires embedded in the wall. No operation is allowed with electricity.
- (5). To avoid abnormal operation caused by electromagnetic interference or other causes, please take notice of the following statements during wiring.
- ① . Be sure the communication line is wired into the correct port, otherwise it would result in communication fault.
- ②. The communication line (wired controller) and power line must be separated with the minimal distance of 20cm, otherwise it would result in communication fault.
- ③ . Suppose that the air conditioner is installed where likely to suffer electromagnetic interference, the communication line of the wired controller must be shielded twisted pair.

4.3 How to Install the Wired Controller

First of all, the selection and connecting method of the communication line is shown as follows:

- Select appropriate communication line of the wired controller: 2-core signal line (wire size≥0.75mm², length<30m, recommended length: 8m).
- (2). After the indoor unit is de-energized, fix the communication line on the indoor terminal board by screws.

Then, the specific installation steps is shown in the Fig.27:



Fig.27 Installation of the Wired Controller

Brief instructions:

- ① . Pull out the 2-core signal line from the mounting hole and pass this line through the round hole located at the bottom of the wired controller.
- ②. Use M4×25 screws to fix the soleplate of the wired controller on the wall.
- ③ . Fix the signal line on the copper tabs X1 and X2. Make sure the line is tightly fixed and with no short-circuit potential.
- 4 . Set the panel and the bottom together by clasps.

4.4 How to Remove the Wired Controller

The wired controller can be easily removed as shown in Fig.28



Fig.28 Removal of the Wired Controller

5 Error Display

When error happens to the unit, the error code will be shown on the wired controller. When multiple errors simultaneously happen, the error codes will circularly show up.

When error occurs, please immediately shut down the unit and contact professional personnel. As shown in the Fig.29 means the high pressure protection.



Fig.29

Error codes and their meanings:

Table 5

| Number | Error code | Error |
|--------|------------|--|
| 1 | E1 | Compressor high pressure protection |
| 2 | E2 | Indoor anti-freeze protection |
| 3 | E3 | Compressor low pressure protection, refrigerant lack protection and refrigerant colleting mode |
| 4 | E4 | Compressor high discharge temperature protection |
| 5 | E6 | Communication error |
| 6 | E8 | Indoor fan motor error |
| 7 | E9 | Full water protection |
| 8 | F0 | Indoor ambient temperature sensor error |
| 9 | F1 | Evaporator temperature sensor error |
| 10 | F2 | Condenser temperature sensor error |
| 11 | F3 | Outdoor ambient temperature sensor error |
| 12 | F4 | Discharge temperature sensor error |
| 13 | F5 | Temperature sensor error of wired controller |
| 14 | C5 | Capacity code error |
| 15 | EE | Outdoor memory chip error |
| 16 | PF | Electric box sensor error |
| 17 | H3 | Compressor overload protection |
| 18 | H4 | Overloading |
| 19 | H5 | IPM protection |
| 20 | H6 | DC fan motor error |
| 21 | H7 | Drive desynchronizing protection |
| 22 | Hc | Pfc protection |
| 23 | L1 | Humidity sensor error |
| 24 | Lc | Activation failure |
| 25 | Ld | Compressor phase sequence protection |
| 26 | LF | Power protection |
| 27 | Lp | Indoor and outdoor mismatch |
| 28 | U7 | 4-way valve direction changing protection |
| 29 | P0 | Drive reset protection |
| 30 | P5 | Over-current protection |
| 31 | P6 | Communication error between main control and drive |
| 32 | P7 | Drive module sensor error |

| 33 | P8 | Drive module over temperature protection |
|----|----|--|
| 34 | P9 | Zero passage protection |
| 35 | PA | AC current protection |
| 36 | Pc | Drive current error |
| 37 | Pd | Sensor connecting protection |
| 38 | PE | Temperature drift protection |
| 39 | PL | Bus low voltage protection |
| 40 | PH | Bus high voltage protection |
| 41 | PU | Charge loop error |
| 42 | PP | Input voltage abnormality |
| 43 | ee | Drive memory chip error |

Instructions to the Error Indicating Lamps on the Panel of the Cassette Type Unit.





Power and ON/OFF Indicating Lamp:

It goes red when the unit is powered on while it goes white when the unit is started.

• Timer Indicating Lamp:

It goes on when the timer is set and goes off when it is not. Its display is in yellow.

"88" Display:

When there is no error, and it receives valid remote control information. It will display the temp setup for 5s, then display the temp of indoor. When the unit has error, It will display the error code. When there are more than one error, the error code will be displayed alternately.

After the grille of the front panel is opened, the front panel is still allowed to realize the following functions by pressing the "Auto" button and the nearby "Test" button simultaneously for five seconds when the unit is "Off".

6.2 Working Temperature Range

Table12

| Test Condition | Indoor Side | | Outdoor Side | |
|-------------------|-------------|--------|--------------|--------|
| | DB(°C) | WB(°C) | DB(°C) | WB(°C) |
| Nominal Cooling | 27 | 19 | 35 | 24 |
| Nominal Heating | 20 | - | 7 | 6 |
| Rated Cooling | 32 | 23 | 48 | - |
| Low Temp. Cooling | 21 | 15 | -15 | - |
| Rated Heating | 27 | - | 24 | 18 |
| Low Temp. Heating | 20 | _ | -10 | -11 |

Note:

1 . The design of this unit conforms to the requirements of EN14511 standard.

② . The air volume is measured at the relevant standard external static pressure.

- ③. Cooling (heating) capacity stated above is measured under nominal working conditions corresponding to standard external static pressure. The parameters are subject to change with the improvement of products, in which case the values on nameplate shall prevail.
- ④. In this table, there are two outside DB values under the low temp cooling conditions, and the one in the brackets is for the unit which can operate at extreme low temperature.

7 Troubleshooting and Maintenance

7.1 Troubleshooting

If your air-conditioning unit suffers from abnormal operation or failure, please first check the following points before repair:

| Failure | Possible Reasons |
|---|---|
| The unit cannot be started. | The power supply is not connected. Electrical leakage of air-conditioning unit causes tripping of the leakage switch. The operating keys are locked. The control loop has failure. |
| The unit operates for a while and then stops. | There is obstacle in front of the condenser. The control loop is abnormal. Cooling operation is selected when the outdoor ambient temperature is above 48°C. |
| Poor cooling effect. | The air filter is dirty or blocked. There is heat source or too many people inside the room. The door or window is open. There is obstacle at the air intake or outlet. The set temperature is too high. There is refrigerant leakage. The performance of room temperature sensor becomes worse |
| Poor heating effect | The air filter is dirty or blocked. The door or window is not firmly closed. The set room temperature is too low. There is refrigerant leakage. The outdoor ambient temperature is lower than -5°C. Control loop is abnormal. |

Table 13

Note: After carrying out the check of the above items and taking relevant measures to solve the problems but the air-conditioning unit still does not function well, please stop the operation of the unit immediately and contact the local service agency designated by Sinclair Ltd. Only ask professional serviceman to check and repair the unit.

The following are not troubles:

| | "Trouble" | Cause |
|----------------------|--|---|
| The unit does not | Restart right after stopping | Once the unit is stopped, it will not operate |
| operate when | Press SET TEMP. and then release immediately. | for about 3 minutes to protect it |
| | Power is switched on | Wait for 1 minute |
| Mist is emitted | When cooling | Room air is chilled rapidly and becomes |
| | | foggy. |
| Outdoor unit is hot | after the unit is stopped | Compressor is emitting heat to get ready for |
| | | restarting. |
| Noise | Buzz is heard at starting | It's the starting sound of thermostat and will |
| | | turn low after 1 minute. |
| | Sound of running water can be heard | This is caused by the refrigerant flowing in- |
| | during operation | side the unit |
| | A "shuh" sound which is heard at the start or | This is the noise of refrigerant caused by flow |
| | immediately after the stop of operation or | stop and flow change. |
| | which is heard at the start or immediately af- | The noise is heard when the drainage pump |
| | ter the stop of defrosting operation. | is in operation. |
| | A continuous low "shah" sound is heard | |
| | when the system is in cooling operation or at | |
| | a stop. | |
| | | |
| | | |
| | Cracking noise can be heard during or after | This is caused by the panel expanding or con- |
| | operation. | tracting due to the change in temperature. |
| | | |
| Dust from the units | Starting operation after not using for a long | Dust absorbed by the unit blows out |
| | time. | |
| Wind from the outlet | | This is caused by the odors in the room which |
| smells | During operation | have gotten onto the air conditioner |

7.2 Routine Maintenance

Only a qualified service person is allowed to perform maintenance. Before accessing to terminal devices, all power supply circuits must be disconnected. Do not use water or air of 50°C or higher for cleaning air filters and outside panels.

Notes:

- ${\rm (I)}$. Do not operate the air conditioner with the filter uninstalled, otherwise dust would come into the unit.
- 2 . Do not remove the air filter except for cleaning. Unnecessary handling may damage the filter.
- ③ . Do not clean the unit with gasolene, benzene, thinner, polishing powder or liquid insecticide, otherwise it would cause discoloration and deformation of the unit.
- 4 . Do not wet the indoor unit in case of electric shock or fire hazard.

Increase the frequency of cleaning if the unit is installed in a room where the air is extremely contaminated.(As a yardstick for yourself, consider cleaning the filter once a half year.)

If dirt becomes impossible to clean, change the air filter.



| 2. Disassemble the air inlet grille Open the air inlet grille at 45°, raise it and remove the grille. | |
|---|---|
| 3. Disassemble the filter screen Draw out the filter screen and remove it. | |
| 4. Disassemble the air purifier Remove the air purifier after removing the fixed screws on it. | Filter screen Filtering element Support Bolt |
| 5. Clean the filer screen Clean the filer screen by a vacuum cleaner or wash it by flashing water. If the oil stain on the filter can not be removed or cleaned up, wash it by warm water meld with the detergent. Dry the filer in the shadow. Note: Never use hot water over 45°C in case of color fading or turning yellow. Never dry it by fire so as to prevent the filter caught fire or deformation. | |
| 6. Reset the filer | The same as step 3 |
| 7. Install the grille well | The same as step 1 and 2 |

10. Optimum Operation

| Adjust the room temperature properly | | |
|---|---|--|
| Adjust the room temperature properly for a comfortable environment. | | |
| Never place anything under the | indoor unit that is to be kept dry. | |
| Water may drop from the indoor unit when the humidity is over 80% or when the drainage outlet is clogged. | | |
| Turn off the main power supply switch whe | n it is not to be used for long periods of time | |
| When the main power switch is truned on, some watts of electricity is being used even if the system is not operating. Turn off the main power supply switch to save energy. | Shut off power | |
| Do not open the doors and windows for a l | ong time when air conditioner is operating | |
| Cooling and heating performance will be affected if the doors and windows are open for a long time. | | |
| Place TV, radio, stereo, etc. at least 1m away | from the indoor unit and the remote controller. | |
| It may cause interference in the picture or sound. | | |
| Avoid direct air flow to pets and plants. | | |
| It may do harm to them. | | |

11. Care and Maintenance(It should be done by professionals)

| Thease puil out the power plug after you used the all conditioner. | | |
|---|--|--|
| Warr | ning | |
| Pull out the power plug before cleaning | Do not splash water directly to the unit | |
| How to clean the air filter | | |
| 1.Open the suction grille Use screwdriver screws the two screws. Slide both knobs simultaneously as shown and then pull them downward slowly. | Screws | |
| 2.Remove the air filters. Slide knobs on the back of the suction grille outward and remove the air filter. Then remove three air cleaners on it. | | |
| 3.Clean the air filter Use vacuum or wash the air filter with water when the air filter is very dirty,use neutral detergent and water.Let the filter dry naturally at shady place. Note: Do not clean with hot water Do not dry over fire | | |
| Do not run the air conditioner without the air filter. | F-Gu | |



| How to clean the suction grille | | |
|--|---|--|
| 1.Open the suction grille. | See step 1 of "How to clean the air filter" | |
| 2.Remove the air filters. | See step 2 of "How to clean the air filter" | |
| 3.Remove the suction grille Open the suction grille at 45° and then lift. | | |
| 4.Wash with water. When the suction grille is very dirty, use soft brush and neutral detergent.Shake off water and dry in a shady place. Notes:Do not wash with hot water. | | |
| 5.Fix the suction grille | Refer to step 3. | |
| 6.Fix the air filter. | See step 4 of "How to clean the air filter" | |
| 7.Close the suction grille | Refer to step 1. | |

DC Inverter Cassette Type Air Conditioner Installation and Operation Manual

| Changing air cleaner | | |
|---|---|--|
| 1.Open the suction grille. | See step 1 of "How to clean the air filter" | |
| Remove the air cleaner Remove the air filter, and remove the air cleaner after unscrewing. | | |
| 3. Take off packing bag and put in new static electricity fiber filter, then fix them on the air filter. | | |
| 4. Fix the air filter | See step 4 of "How to clean the air filter" | |
| Air cleaner functions | and service cycle time | |
| Absorbs bad smell in air such as carbon monoxid Absorbs harmful objects bigger than 1.0 um in air It can be used for about half a year to one year. | e carbon dioxide, benzol, gasoline and so on. | |

L

How to clean the air outlet and case.

- Clean with soft cloth of use water and neutral detergent.
- Do not use gasoline, benzene, thinner, polishing powder, liquid insecticide, which may cause discoloring or warping. If the air flow flap is very dirty, you may remove it to clean as shown below.





Operate on unmentioned buttons would not impact on the normal use.

Take-back of electrical waste Information for Users to Disposal of electrical and electronic equipment (private households)

Icon on the product or in the accompanying documentation means that used electric or electronic products must not be disposed together with domestic waste. For the correct disposal of the product hand it over to a place for take-back, where it is collected free of charge. By correct disposal of the product you can help to preserve valuable natural resources and help in preventing potential negative impacts to environment and human health, which could be consequence of incorrect disposal of waste. Ask for more details from local authorities, nearest collection point, in Waste Acts of respective country, in the Czech Republic in Act no. 185/2001 Coll., in the wording of later regulations. In case of incorrect disposal of this waste, a fine can be imposed according to national regulations.



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