

Owner's Manual

Original Instructions

Split type room air conditioner operation manual

- ► HSZ-HX28VAW
- ► HSK-HA28VAW ► HSC-HA22VA ► HMK-HA28VA ► HMZ-HX28VA
- ► HSZ-HX38VAW ► HSK-HA38VAW ► HSC-HA28VA
- ► HMZ-HX38VA
- ► HMK-HA38VA
- ▶ HSK-HA55VAW ► HSZ-HX55VAW
- ► HMK-HA55VA ► HMZ-HX55VA
- ► HSZ-HX67VAW ► HSK-HA67VAW
- ► HMK-HA67VA
- ► HMZ-HX67VA
- ▶ HSC-HA55VA
 - ► HMC-HA55VA

► HMC-HA22VA

► HMC-HA28VA

▶ HSC-HA38VA

► HMC-HA38VA

- ► HSC-HA67VA
- ► HMC-HA67VA





Read the precautions in this manual carefully before operating the unit.



This appliance is filled with R32.

Keep this manual where the user can easily find it.

WARNING:

- Do not use means to accelerate the defrosting process or to clean, other than those recommended by the manufacturer.
- The appliance must 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 must be installed, operated and stored in a room with a floor area larger than 3 m².
- 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.
- This appliance can be used by children aged 8 years and above and persons with reduced physical, sensory or mentao capabilities or lack of experience and knowledge if they have been given superivision or instruction concering 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.
- ■The wiring method should be in line with the local wiring standard.
- All the cables shall have got the European authentication certificate. During installation, when the connecting cables break off, it must be assured that the grouding wire is the last one to be broken off. The explosion-proof breaker of the air conditioner should be all-pole switch. Distance between its two contacts should not be no less than 3mm. Such means for disconnection must be incorporated in the wiring.
- Make sure installation is done according to local wiring regulation by professional persons.
- Make sure ground connection is correct and reliable.
 A leakage explosion-proof breaker must be installed.
- Do not use a refrigerant other than the one indicated on the outdoor unit(R32) when installing, moving or repairing. Using other refrigerants may cause trouble or damage to the unit, and personal injury.

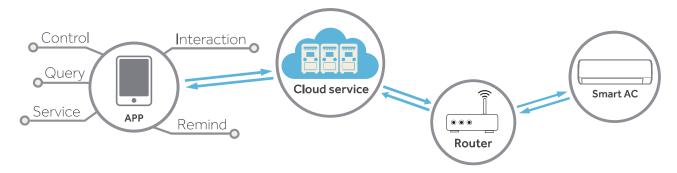
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Parts and Functions

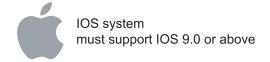
Wi-Fi function description

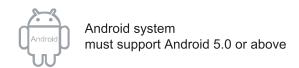
The system architecture diagram



The application environment

Smart mobile phone and wireless router are necessary for the appliacation. Wireless router must be able to connect to the Internet. Smart mobile phone requires IOS or Android system:





Configuration method

Scan the QR code below to download "Intelligent Air" APP. Other Download options: Please search Intelligent Air APP on:

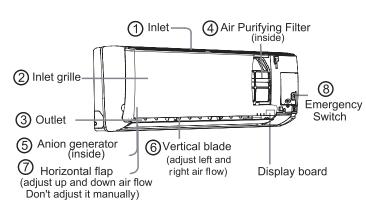
- App Store (IOS)
- Google Play (Android)



After App Download, please register, connect the air conditioner and enjoy using Intelligent Air to manage your device.

Parts and Functions

Indoor Unit

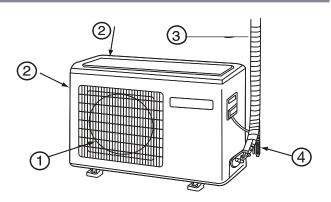




Display board 1 Signal receiver Setting temp.display 3 Operation mode indicator (lights up when the compressor is on.) 4 Wi-Fi

Actual inlet grille may vary from the one shown in the manual according to the product purchased

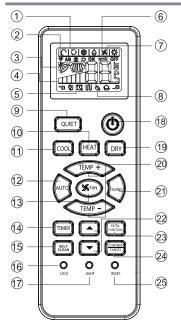
Outdoor Unit



- (1) OUTLET (3) CONNECTING PIPING AND ELECTRICAL WIRING
- (2) INLET (4) DRAIN HOSE

Please be subject to the actual produce purchased the above picture is just from your reference

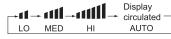
Remote controller



1. Mode display

Operation mode					
Remote controller	Ö	*	٥	Ж	☼

- 2. Signal sending display
- 3. SWING display
- 4. FAN SPEED display



- 5. LOCK display
- 6. TIMER OFF display TIMER ON display
- 7. TEMP display

Healthy function is not available for some units.

8. Additional functions display

Operation mode	QUIET	SLEEP	Supplemented electrical heating	HEALTH	TURBO
Remote controller	ď	Ø	N	Ø	J.

- 9. QUIET button
- 10. HEAT button
- 11. COOL button
- 12. AUTO button
- 13. FAN SPEED button
- 14. TIMER button
- 15. SELF CLEAN button
- 16. LOCK button

Used to lock buttons and LCD display

17. LIGHT button

Control the lightening and extinguishing of the indoor LED display board.

- 18. POWER ON/OFF button
- 19. DRY button
- 20. TEMP button
- 21. SWING button
- 22. HOUR button
- 23. EXTRA FUNCTION button

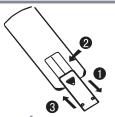
Function: Sleeping---► Health---- Healthy airflow position1---Healthy airflow position 2 --- Turbo ---- Air sending --**→**A-B yard

24.CANCEL/CONFIRM button Function: Setting and cancel to the timer and other additional functions.

25. RESET button

When the remote controller appears abnormal, use a sharp pointed article to press this button to reset the remote.

Loading of the battery



- Remove the battery cover;
- Load the batteries as illustrated. 2 R-03 batteries, resetting key (cylinder);
- 3 Be sure that the loading is in line with the" + "/"-";

4 Load the battery,then put on the cover again.

Note:

- The distance between the signal transmission head and the receiver hole should be within 7m without any obstacle as well.
- When electronic-started type fluorescent lamp or change-over type fluorescent lamp or wireless telephone is installed in the room, the receiver is apt to be disturbed in receiving the signals, so the distance to the indoor unit should be shorter.
- Full display or unclear display during operation indicates the batteries have been used up. Please change batteries.
- If the remote controller can't run normally during operation, please remove the batteries and reload several minutes later.

Remove the batteries in case won't be in use for a long period. If there is any display after taking-out, just press reset key.

Operation

Base Operation

Remote controller



- 1. Unit start Press ON/OFF on the remote controller, unit starts.
- 2. Select operation mode COOL button: Cooling mode HEAT button: Heating mode DRY button: Dehumidify mode
- 3. Select temp. setting

Press TEMP+ / TEMP- button

TEMP+ Every time the button is pressed, temp.setting increase 1°C, if kept depressed, it will increase rapidly

TEMP- Every time the button is pressed, temp.setting decrease 1°C, if kept depressed, it will decrease rapidly

Select a desired temperature.

4. Fan speed selection

Press FAN button. For each press, fan speed changes as follows:

Remote controller:



Air conditioner is running under displayed fan speed. When FAN is set to AUTO, the air conditioner automatically adjusts the fan speed according to room temperature.

Operation Mode	Remote Controller	Note
AUTO	()	Under the mode of auto operation, air conditioner will automatically select Cool or Heat operation according to room temperature. When FAN is set to AUTO the air conditioner automatically adjusts the fan speed according to room temperature.
COOL	*	Cooling only unit do not have displays and functions related with heating
DRY		In DRY mode, when room temperature becomes lower than temp.setting+2° C, unit will run intermittently at LOW speed regardless of FAN setting.
HEAT	÷	In HEAT mode, warm air will blow out after a short period of the time due to cold-draft prevention function. When FAN is set to AUTO, the air conditioner automatically adjusts the fan speed according to room temperature.
FAN	×	In FAN operation mode, the unit will not operate in COOL or HEAT mode but only in FAN mode, AUTO is not available in FAN mode, And temp. setting is disabled. In FAN mode, sleep operation is not available.

Emergency operation and test operation

Emergency Operation:

- Use this operation only when the remote controller is defective or lost, and with function of emergency running, air conditoner can run automatically for a while.
- When the emergency operation switch is pressed, the "Pi" sound is heard once, which means the start of this operation.

 When power switch is turning on for the first time and emergency operation starts, the unit will run automatically in the following modes:

	•			
Room temperature	Designated temperature	Timer mode	Fan speed	Operation mode
Above 24°C	24°C	No	AUTO	COOL
Below 24°C	24°C	No	AUTO	HEAT

 It is impossible to change the settings of temp. and fan speed, It is also not possible to operate in timer or dry mode.

Test operation:

Test operation switch is the same as emergency switch.

- Use this switch in the test operation when the room temperature is below 16°C, do not use it in the normal operation.
- Continue to press the test operation switch for more than 5 seconds. After you hear the "Pi" sound twice, release your finger from the switch: the cooling operation starts with the air flow speed "Hi"
- Under this operation mode, the fan motor of indoor unit will run in high speed.

Air Flow Direction Adjustment

1.Vertical	flap	Remote controller	
Pos.1	_	COOL/DRY/AUTO(Initial state):	
Pos.2	7	HEAT(Initial state):	
Pos.3	N .		
Pos.4	(Autoswing)		
Pos.5		(no)	
2.Press	button. cha	anges as follows: Pos.4	
Press	button aga	ain ,vertical flap will stop over	
presen	t position,the sw	ing function will be cancelled	

- 3.Press button to choose the Pos.2 and Pos.3.
- 4.Left and right air flow adjustment(manual) Move the vertical blade by a knob on airconditioner to adjust left and right direction referring to Fig.
- When adjusting the flap by hand, turn off the unit.
- When humidity is high, condensate water might occur adjusted to left or at air outlet if all vertical louvers are right.
- It is advisable not to keep horizontal flap at downward position for a long time in COOLor DRY mode, otherwise, condensate water might occur.

When restart after remote turning off, the remote controller controller will automatically memorize the previous set swing position.

Operation

Sleep Operation

Press EXTRA Dutton to enter additional options, when cycle display to Will flash. And then press enter to sleep function.

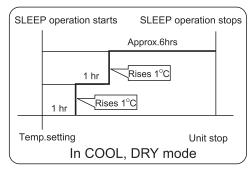




Operation Mode

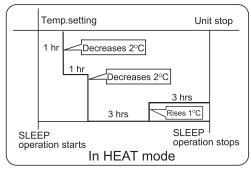
1. In COOL, DRY mode

1 hours after SLEEP mode starts,temp.will become 1°C higher than temp.setting.After another 1 hours,temp.rises by 1°C futher.The unit will run for further 6 hours then stops Temp. is higher than temp.setting so that room temperature won't be too low for your sleep.



2. In HEAT mode

1 hours after SLEEP mode starts, temp will become 2°C lower than temp.setting. After another 1 hours, temp decrease by 2°C futher. After more another 3 hours, temp. rises by 1°C futher. The unit will run for further 3 hours then stops. Temp. is lower than temp. setting so that room temperature won't be too high for your sleep.



3. In AUTO mode

The unit operaters in corresponding sleep mode adapted to the automatically selected operation mode.

4. In FAN mode

It has no SLEEP function.

5.Set the wind speed change when sleeping If the wind speed is high or middle before setting for the sleep, set for lowing the wind speed after sleeping. If it is low wind, no change.

Note

When TIMER function is set, the sleeping function can't be set up. After the sleeping function is set up, if user resets TIMER function, the sleeping function will be cancelled; the machine will be in the state of timing-on.

TURBO/QUIET Operation

(1) TURBO Operation

When you need rapid heating or cooling, you can use this function. Press button to enter additional options, when cycle display to , will flash, and then press contain, enter to turbo function. When cancel the function, please enter additional options again and to cancel turbo function.

(2) QUIET Operation

You can use this function when silence is needed for rest or reading. Press QUIET button, the remote controller will show and then achieve to the quiet function. Press again this QUIET button, the quiet function will be cancelled.

Note:

During TURBO operation, in rapid HEAT or COOL mode, the room will show inhomogeneous temperature distribution. Long period QUIET operation will cause effect of not too cool or not too warm.

HEALTH Operation

(This function is unavailable on some models.)

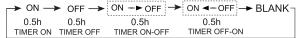
Press Dutton to enter additional options, when cycle display to will flash. And then press CANCEL enter to health function.

The anion generator in the airconditioner can generate a lot of anion effectively balance the quantity of position and anion in the air and also to kill bacteria and speed up the dust sediment in the room and finally clean the air in the room.

Operation

Timer On/Off On-Off Operation

1.After unit starts, select your desired operation mode. 2.Press TIMER button to change TIMER mode. Every time the button is pressed, display changes as follows: Remote controller:



Then select your desired TIMER mode (TIMER ON or TIMER OFF or TIMER ON-OFF). " ON "or " OFF "will flash.

3.Press ▼ / ▲ button to set time.

- Press the button for each time, setting time in the first 12 hours increased by 0.5 hour every time, after 12 hours, increased by 1 hour every time.
- Press the button for each time, settiing time in the first 12 hours decreased by 0.5 hour every time, after 12 hours, decreased by 1 hour every time. It can be adjusted within 24 hours.

4.Confirm timer setting

After adjust the time, press CONFIRM button and confirm the time ON or OFF button will not flash any more.

5. Cancel timer setting

Press the timer button by times until the time display eliminated.

Hints:

After replacing batteries or a power failure happens, time setting should be reset.

According to the Time setting sequence of TIMER ON or TIMER OFF, either Start-Stop or Stop-Start can be achieved.

Healthy airflow Operation

1.Press (1) to starting

Setting the comfort work conditions.

2. The setting of healthy airflow function

Press button to enter additional options, Press this button continuously, the louvers location will cycle between in the following three locations, to choose the swing location what you needed, and then press CONERN button to confirm.



3. The cancel of the healthy airflow function

Press (ENTRA Durction) button to enter additional options, Press this button continuously, the louvers location will cycle between in the following three locations again, and then press CONFERM button to cancel.

Notice: Do not direct the flap by hand. Otherwise, the grille will run incorrectly. If the grille is not run correctly, stop for a minute and then start, adjusting by remote controller.

Note:

- 1. After setting the healthy airflow function, the position grill is fixed.
- 2.In heating, it is better to select the \(\infty \) mode.
- 3.In cooling, it is better to select the [™] mode.
- 4.In cooling and dry, using the air conditioner for a long time under the high air humidity, condensate water may occur at the grille .

Operation

SELF-CLEAN Operation

◆Functional description:

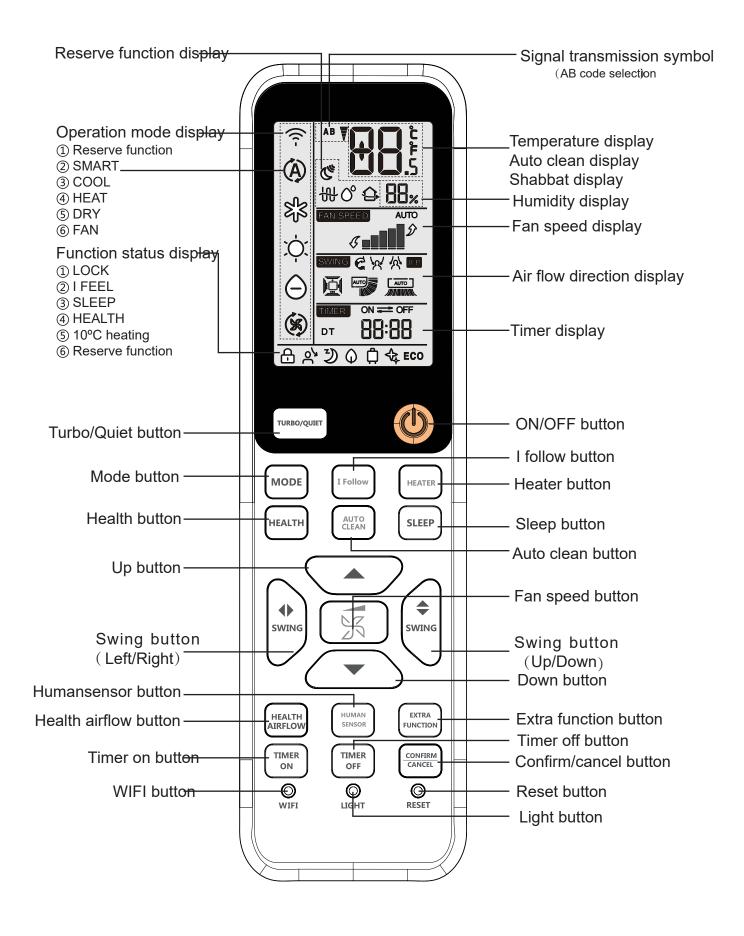
the purpose of this function is to clean the evaporator.

◆Entry and exit:

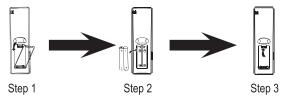
Press SELF CLEAN button to enter this function, then it will display "CL" on the panel of the indoor unit and also on the remote controller. Maximum running time not more than 21 minutes, this function will exit automatically with the "Pi" sound twice, then the unit return to original state. Under operation process of SELF CLEAN, press the button repeatedly is invalid and cannot exit, please press the "power" button or swift to other mode to exit.

◆ Note:

- 1. This function is invalid in timer / sleep mode.
- 2. After this mode starts, the air volume may reduce or even have no airflow, or even cold airflow blowing.
- 3.It is normal if the unit make some sound like expand with heat and contract with cold.
- 4. The "CL" display time may last differently on the remote controller and panel.
- 5.If the outside ambient temperature below zero, error code "F25 "may be occurred during self-cleaning operation, which is normal protection, please turn off the power and to restart after 10 seconds.
- 6. The best condition to run this mode: the temperature is $20\,^\circ\text{C} \sim 27\,^\circ\text{C}$ and the humidity is $35\,\% \sim 60\,\%$ in the door, the temperature is $25\,^\circ\text{C} \sim 38\,^\circ\text{C}$ (cooling season) out the door.
- 7.It is hard to frost if the air is too dry(humidity < 20%). and if the humidity is too high(humidity > 70%).the condensate water may increase, which may move away some frost.
- 8. This function is unavailable on some models.
- HSC-HA22VA HSC-HA28VA HSC-HA38VA HSC-HA55VA HSC-HA67VA



Loading of the battery



Step 1: Remove the battery cover.

Step 2: Load the batteries as illustrated.2 R-03 batteries,resetting key(cylinder);Be sure that the loading is in line with the "+" / "-".

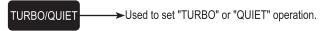
Step 3: Load the battery, then put on the cover again.

•The distance between the signal transmission head and the receiver hole should be within 7m without any obstacle as well. When electronic-started type fluorescent lamp or change-over wireless telephone is installed in the type fluorescent lamp or room, the receiver is apt to be disturbed in receiving the signals, so the distance to the indoor unit should be shorter. Full display or unclear display during operation indicates the batteries have been used up. Please change batteries. If the remote control can't run normally during operation, please remove the batteries and reload several minutes later.

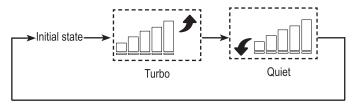
WARNING: Keep out of reach of children. Swallowing can lead to chemical burns, perforation of soft tissue and death. Severe burns can occur within 2 h of ingestion. Seek medical attention immediately.

Key Function

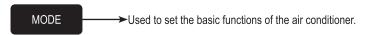




Press the "TURBO/QUIET" button, you can switch the "Turbo" and "Quiet" function easily. Every press, the remote controller will swith as below:



- 1. Initial state:fan speed before setting "turbo" or "quiet" function.
- 2. Turbo: Fast cooling or heating,set this function," 🗲 " is displayed.
- 3. Quiet: Rest,read or want the environment to be quiet,set this funciton," ✓ " is displayed.



Every press the "MODE" button, follow by recycling:



Function	Display	Description
SMART	(A)	① In the "SMART"mode, the temperature can be set. ② In this operation mode, the "COOL" and "HEAT" mode will be automatically selected according to the room temperature when the air conditioner is running.
COOL	£33	Please adjust the temperature to lower than the indoor temperature when cooling.
DRY (_) t		In "DRY" mode, when room temperature becomes lower than temp.setting+2°C,unit will run intermittently at low speed regardless of "FAN" setting.

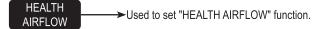
Function	Display	Description	
FAN	(%)	① The unit will not operate in "COOL" or "HEAT" mode but only in "FAN" mode. ② "smart" is not available in "FAN" mode.And temp. setting is disabled. ③ In "FAN" mode,"SLEEP" operation is not available.	
HEAT	\	In "HEAT" mode, warm air will blow out after a short period of the time due to cold-draft prevention function. Please adjust the temperature to higher than the indoor temperature when heatling.	

"SMART" function: The air conditioner determines the operating mode according to the temperature difference between the current indoor temperature and the set temperature and operates the following functions:

Intelligent automatic temperature adjustment	Intelligently control the indoor temperature to the set temperature, the set temperature defaults to 24°C, which can be adjusted by the temperature setting key(up/down button)
Intelligent automatic speed regulation	When the "SMART" function is turned on, the wind speed is displayed as an automatic state. In the intelligent operation mode, the wind speed can be adjusted automatically according to the temperature difference between the indoor temperature and the set temperature.

Press the "I Follow" button, " $\stackrel{\diamond \searrow}{\cap}$ "is displayed on the remote control.

- 1. Only for cooling, heating or smart mode(other modes cannot be implemented).
- 2. Place the remote control within the acceptable range of air conditioner.Press the "I Follow" button,the remote control displays the "I Follow" icon.The remote control sends the circulation temperature date to the PCB every 3 minutes,and the air conditioner runs according to this data.
- 3. Exit "I Follow" mode when power off or press the "I Follow" button or switch other modes.
- 4. Some models do not have this function. If you selects "I Follow" function form the remote control, the air conditioner operates according to the original state and does not perform the "I Follow" function.



For each press the "HEALTH AIRFLOW" button, air flow direction on remote control displays as follows according to different operation modes:



- 1. Can't pull directly the outlet grille by hand. Otherwise, the grille will run incorrectly. If the grille is not run correctly, stop for a minute and then start, adjusting by remote control.
- 2. After setting the "HEALTH AIRFLOW" function, the position of inlet and outlet grills is fixed.
- 3. In heating, it is better to select the "
- 4. In cooling, it is better to select the "
- 5. In cooling and dry ,use the air conditioner for a long time under the high air humidity, a phenomenon falling drips of water occurs at the outlet grille.
- 6. Select the appropriate fan direction according to the actual conditions.

HEALTH → Used to set "HEALTH" function.

Press the "HEALTH" button," \bigcirc "is displayed on the remote control. Press "HEALTH" button again, " \bigcirc "disappears,the operation stops.

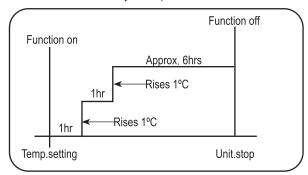
- 1. The generator in the air conditioner can generate a lot of anion effectively balance the quantity of anion in the air and also to kill bacteria and speed up the dust sediment in the room and finally clean the air in the room.
- 2. UV sterilization function: it uses the c-band with the most effective sterilization effect in ultraviolet radiation to remove harmful micro-organisms such as bacteria in the air, which has remarkable effects to make the air healthy. Please see the warning about UV-C lamp below.

SLEEP → Used to set "SLEEP" function.

Press the "SLEEP" button before going to sleep,the air conditioner will enter sleep operation mode to make your sleep more comfortable. The remote control will show " ", Press again this "SLEEP" button,the sleep function will be cancelled.

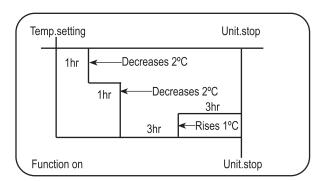
1. In "COOL" or "DRY "mode

1 hour after "SLEEP" mode starts, "temp. "will become 1°C higher than "temp. setting". After another 1 hours, "temp. "rises by 1°C further. The unit will run for further 6 hours then stops. "Temp." is higher than "temp. setting" so that room temperature won't be too low for you sleep.



2. In "HEAT" mode

1 hour after "SLEEP" mode starts, "temp." will become 2°C lower than "temp. setting". After another 1 hours, "temp. "decrease by 2°C further. After more another 3 hours, "temp." rises by 1°C further. the unit will run for further 3 hours then stops. "Temp. "is lower than "temp. setting" so that room temperature won't be too high for you sleep.



3. In "SMART" mode

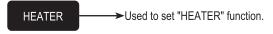
The unit operates in corresponding "sleep" mode corresponding "sleep" mode adapted to the automatically selected operation mode.

4. In "FAN"mode

It has no SLEEP function.

5. Set the wind speed change when sleeping

If the wind speed is high or middle before setting for the sleep, set for lowering the wind speed after sleeping. If it is low wind, no change.



For the first time to enter the HEAT mode, the remote

controller will mo show and the display board will show "HEATER",If it meets the operation condition, the Heater function will start.

Press the HEATER button, the remoter controller and the display board will show and "HEATER" respectively and then achieve the HEATER fuction. Press again this HEATER button, the Heater function will be cancelled.

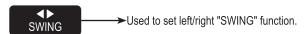
Note: This function is unavailable on this series of models.



Used to set the rise of temperature, timing etc. Press the button every time, temp setting increase 1°C . If keep depressed it will increase rapidly.

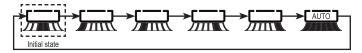


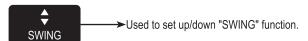
Used to set the fall of temperature, timing etc.Press the button every time, temp setting decrease 1°C . If keep depressed it will decrease rapidly.



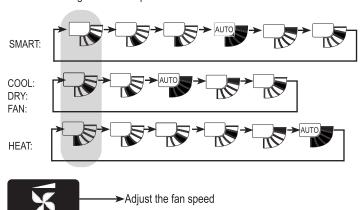
For each press the " button,remote control displays as follows:

SMART/COOL/DRY/FAN/HEAT:



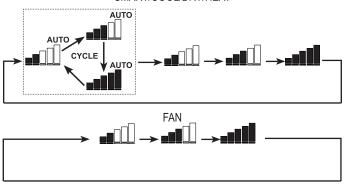


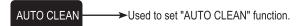
For each press the " $\mathbf{\nabla}$ " button,air flow direction on remote control displays as follows according to different operation modes:



Press this button, for each press, fan speed changed as follows:

SMART/COOL/DRY/HEAT



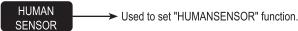


Press the "AUTO CLEAN" button," CL " is displayed on the remote control and the panel of the indoor unit.



- 1. This function is invalid in Auto mode, effective in Cool/Dry/Fan/Timer/Sleep mode.
- 2. After this mode starts, the air volume may reduce or even have no airflow, or even cold airflow blowing.
- 3. It is normal if the unit make some sound like expand with heat and contract with cold.

- 4. The "CL" display time may last differently on the remote control and panel. Maximum running time not more than 25 minutes, this function will exit automatically with "PI" sound twice, then the unit return to original state.
- 5. If the outside ambient temperature below zero, error code "F25" may be occurred during self-clean operation, which is normal protection, please turn off the power and to restart after 10 seconds.
- 6. The best condition to run this mode: the temperature is 20°C---27°C and the humidity is 35%---60% in the door,the temperature is 25°C---38°C (cooling season) out the door.
- 7. It is hard to frost if the air is too dry (humidity<20%) . If the humidity is too high(humidity>70%), the condensate water may increase, which may move away some frost.
- 8. Some models do not have this function. If you selects "AUTO CLEAN" function form the remote control, the air conditioner operates according to the original state and does not perform the "AUTO CLEAN" function.
- 9. Press the "POWER" or switch other modes to exit.



Press the "HUMANSENSOR" button every time, changes as follows:



People could choose the airflow to follow or avoid their movements.

- 1. "Follow" function: It can detect where a person is and adjust the flap accordingly and send air to the location of this person. If it detects people in two locations, the flap will blow alternatively between these two location . If the appliance detects people in three or more locations, the left and right flaps will swing utomatically.
- **2. "Avoid" function:** When the appliance detects a person in a location,it will adjust the flap to avoid such a location. If it detects people in three or more locations,the left and right flaps will swing automatically.

Note:

- a. When there are people in several locations or a person frequently moves between several locations, if this person is in the in-between location or the crossing location, whether the appliance is in a "FOLLOW" mode or an "AVOID" mode, the flap will swing automatically to send air to these location.
- b. Whether the setting is "FOLLOW" or "AVOID" ,it takes some time to adjust their direction after the appliance identifies the location of the people and the air direction will not change immediately.
- c. If the actual airflow can't reach(or avoid) the location where a person is due to such factors as fan speed setting, temperature setting, ambient temperature difference and layout of the room, pressing the left and right flaps can adjust the air direction and set the airflow direction by hand.
- d. Set the health airflow when the human sensing (including follow/avoid) function is enabled and exit from the human sensing (including follow/avoid) function.
- e. Press the upper and lower swing flaps when the human sensing (including follow/avoid) function is enabled,there is no upper and lower full swing status.
- f. When the appliance is in upper and lower full swing status,set the human sensing function (including follow/avoid), the upper and lower swing flaps are in their standard positions of relevant mode.
- g. When the human sensing function is enabled,if the appliance can't detects people for a long time (at least 20 minutes), it will automatically enter the power saving mode. Once a person is detected, the appliance will exit from the power saving mode.

Caution:

This function is unavailable on this series of models.

automatically. The avoiding air will avoid these two areas or be swept automatically.

i. Some models do not have this function. If you selects "ECOSENSOR" function form the remote control, the air conditioner operates according to the original state and does not perform the "ECOSENSOR" function.



Press "EXTRA FUNCTION button, enter the "EXTRA" function. Press this button every time, changes as follows:



Display on the remote control as follows:

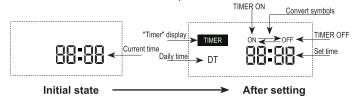


When any of the above symbols flashes, press "CONFIRM/CANCEL" to enter the corresponding selection function.

- 1. "A/B" code:Switch the remote control code sending mode
- 2. "10°C" Heating:Low temperature heating operating down to 10°C.
- 3. "°C/°F Transform: Switch between Celsius and Fahrenheit display.
- Some models do not support these functions.



After unit starts, select your desired operation mode, use the "TIMER ON", "TIMER OFF" and "CONFIRM/CANCEL" buttons in combination to set the air conditioner to start or shut down at the specified time.

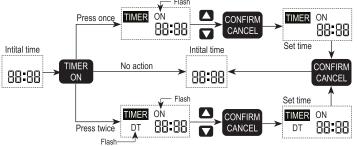


- a. Press "TIMER ON", "TIMER OFF" button, "ON", "OFF", "DT ON", "DT OFF" will flash.
- b. Press " or " utton to set time.

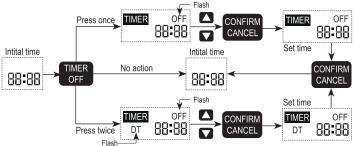
Notice: The time that needs to be set can't be consistent with the current time.

- c. Confirm timer setting: After adjust the time,press "CONFIRM/CANCEL" button one time.The "ON" ,"OFF","DT ON" , "DT OFF" will not flash.
- d. Cancel timer setting: Press the "CONFIRM/CANCEL" button again to cancel the timer setting.
- e. After TIMER ON/OFF is set, remote will automatically judge sequential order of ON/OFF, arrow (" —> " / " —— ") indicates that the one performed first points to the one performed second.

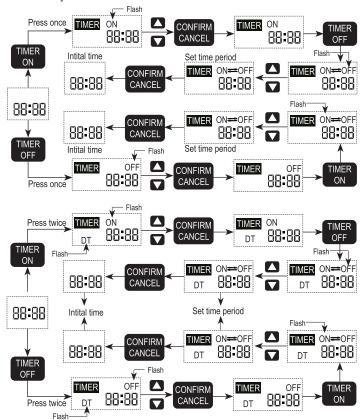
TIMER ON: set to automatic start the <u>air conditioner</u> at the set time.



TIMER OFF:set to automatic turn off the air conditioner at the set time.



TIMER ON OFF:Set a certain period of time, the air conditioner will automatically turn on and off.



Hints:

- 1. After replacing batteries or a power failure happens, time setting should be reset.
- 2. The remote control has a memory function. When using the timer function next time, if the set time is the same as the last time, just select the timer mode and press the "CONFIRM/CANCEL" button to confirm.
- 3. According to the set "TIMER ON" and "TIMER OFF", it can be turned on first and then off, or first off and then on.



Press and hold the "WIFI" button for 3 seconds in the "ON/OFF" state to enter the WIFI configuration.

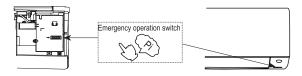


Control the lightening and extinguishing of the indoor LED display board.

RESET → Used to set "RESET" function.

If the remote control is not functioning properly, press this button to reset the remote.

Emergency Operation

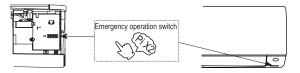


- 1. Use this operation only when the remote controller is defective or lost, and with function of emergency running, air conditoner can run automatically for a while
- 2. When the emergency operation switch is pressed, the " $\rm Pi$ " sound is heard once, which means the start of this operation.
- 3. When power switch is turning on for the first time and emergency operation starts, the unit will run automatically in the following modes:

Room Temperature	Designated Temperature	Timer mode	Fan speed	Operation mode
Above 21 °C	24 °C	NO	AUTO	COOL
Below 21 °C	24 °C	NO	AUTO	HEAT

■ Test Operation

- 1. Test operation switch is the same as emergency switch.
- 2. Use this switch in the test operation when the room temperature is below 16°C .don't use it in the normal operation.
- 3. Continue to press the test operation switch for more than 5 seconds. After you hear the "Pi" sound twice, release your finger from the switch, the cooling operation starts with the air flow speed "HI".



Indoor Unit Installation

Necessary Tools for Installation

- Driver
- Nipper
- Hacksaw
- Hole core drill
- Spanner(17,19 and 26mm)
- Gas leakage detector or soap-and-water solution
- Torque wrench (17mm,22mm,26mm)
- Pipe cutter
- Flaring tool
- Knife
- Measuring tape
- Reamer

Power Source

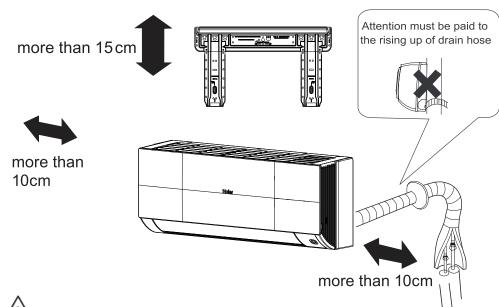
- Before inserting power into receptacle, check the voltage without fail.
- The power supply is the same as the corresponding nameplate.
- Install an exclusive branch circuit of the power.
- A receptacle shall be set up in a distance where the power cable can be reached. Do not extend the cable by cutting it.

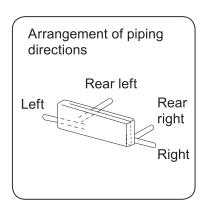
Selection of Installation Place

- Place, robust not causing vibration, where the body can be supported sufficiently.
- Place, not affected by heat or steam generated in the vicinity, where inlet and outlet of the unit are not disturbed.
- Place, possible to drain easily, where piping can be connected with the outdoor unit.
- Place, where cold air can be spread in a room entirely.
- Place, nearby a power receptacle, with enough space around.
- Place where the distance of more than Im from televisions, radios, wireless apparatuses and fluorescent lamps can be left.
- In the case of fixing the remote controller on a wall, place where the indoor unit can receive signals when the fluorescent lamps in the room are lightened.

Drawing for the installation of indoor units

The models adopt HFC refrigerant R32







If using the left side drain pipe, make sure the hole is got through.

The distance between the indoor unit and the floor should be morethan 2m.

Please be subject to the actual product purchased, the above picture is just for your reference.

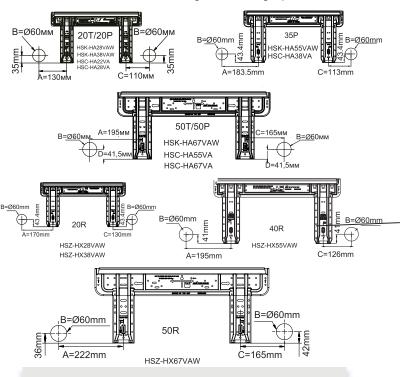
Indoor Unit Installation

1

Fitting of the Mounting Plate and Positioning of the wall Hole

When the mounting plate is first fixed

- Carry out, based on the neighboring pillars or lintels, a proper leveling for the plate to be fixed against the wall, then temporarily fasten the plate with one steel nail.
- Make sure once more the proper level of the plate, by hanging a thread with a weight from the central top of the plate, then fasten securely the plate with the attachment steel nail.
- 3. Find the wall hole location A/C using a measuring tape

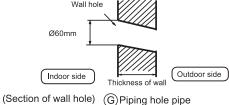


When the mounting plate is fixed side bar and lintel

- Fix to side bar and lintel a mounting bar, Which is separately sold, and then fasten the plate to the fixed mounting bar.
- Refer to the previous article, "When the mounting plate is first fixed ", for the position of wall hole.

Making a Hole on the Wall and Fitting the Piping Hole Cover

- \bullet Make a hole of 60 mm in diameter, slightly descending to outside the wall
- Install piping hole cover and seal it off with putty after installation



(Состон от нашенов) (О) пр

Installation of the Indoor Unit

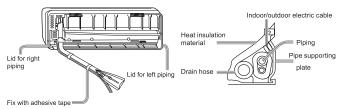
Drawing of pipe

[Rear piping]

• Draw pipes and the drain hose, then fasten them with the adhesive tape

[Left • Left-rear piping]

- In case of left side piping, cut away, with a nipper, the lid for left piping.
- In case of left-rear piping, bend the pipes according to the piping direction to the mark of hole for left-rear piping which is marked on heat insulation materials.
- Insert the drain hose into the dent of heat insulation materials of indoor unit.
- 2. Insert the indoor/outdoor electric cable from backside of indoor unit, and pull it out on the front side, then connect them.
- Coat the flaring seal face with refrigerant oil and connect pipes.Cover the connection part with heat insulation materials closely, and make sure fixing with adhesive tape



 Indoor/outdoor electric cable and drain hose must be bound with efrigerant piping by protecting tape.

[Other direction piping]

- Cut away, with a nipper, the lid for piping according to the piping direction and then bend the pipe according to theposition of wall hole. When bending, be careful not to crash pipes.
- Connect beforehand the indoor/outdoor electric cable, and then pull out the connected to the heat insulation of connecting part specially.

Fixing the indoor unit body

Hang surely the unit body onto the upper notches of the mounting plate. Move the body from side to side to verify its secure fixing.

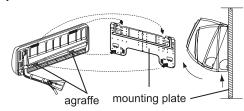


 In order to fix the body onto the mounting plate, hold up the body aslant from the underside and then put it down perpendicularly.

mounting plate

Unloading of indoor unit body

When you unload the indoor unit, please use your hand to arise the body to leave agraffe, then lift the bottom of the body outward slightly and lift the unit aslant until it leaves the mounting plate.



4

Connecting the indoor/outdoor Electric Cable

Removing the wiring cover

 Remove terminal cover at right bottom corner of indoor unit, then take off wiring cover by removing its screws.



When connecting the cable after installing the indoor unit

- 1. Insert from outside the room cable into left side of the wall hole, in which the pipe has already existed.
- 2. Pull out the cable on the front side, and connect the cable making a loop.

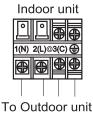
When connecting the cable before installing the indoor unit

- Insert the cable from the back side of the unit, then pull it out on the front side.
- Loosen the screws and insert the cable ends fully into terminal block, then tighten the screws.
- Pull the cable slightly to make sure the cables have been properly inserted and tightened.
- After the cable connection, never fail to fasten the connected cable with the wiring cover









Note:

When connecting the cable, confirm the terminal number of indoor and outdoor units carefully. If wiring is not correct, proper operation can not be carried out and will cause defect.

Connecting wiring	4G1.0mm ²
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- If the supply cord is damaged, it must be replaced by the manufacturer or its service agent or a similar qualified person. The type of connecting wire is H05RN-F or H07RN-F.
- 2. If the fuse on PC board is broken please change it with the type of T.3.15A/250VAC (Indoor).
- 3. The wiring method should be in line with the local wiring standard.
- 4. After installation, the power plug should be easily reached.
- A breaker should be incorporated into fixed wiring. The breaker should be all-pole switch and the distance between its two contacts should be not less than 3mm.

5

Power Source Installation

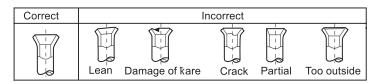
- The power source must be exclusively used for air conditioner.
- In the case of installing an air conditioner in a moist place, please install an earth leakage breaker.
- For installation in other places, use a circuit breaker as far as possible.

6 Cutting and Flaring Work of Piping

- Pipe cutting is carried out with a pipe cutter and burs must be removed.
- After inserting the kare nut, karing work is carried out.

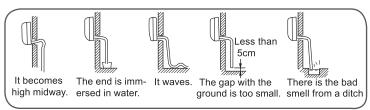
\setminus		Flare tool for R410A	Conventional kare tool			
		Clutch-type	clutch-type(Rigid-type)	Wing-nut type (Imperial-type)		
	Α	0~0.5mm	1.0~1.5mm	1.5~2.0mm		
Flare tooling die			1.Cut pipe	2.Remove burs		
↓A ↓A		JA				
				4.Flare pipe		

Insert the kare nut



7 On Drainage

- Please install the drain hose so as to be downward slope without fail.
- Please don't do the drainage as shown below.



- Please pour water in the drain pan of the indoor unit, and confirm that drainage is carried out surely to outdoor.
- In case that the attached drain hose is in a room, please apply heat insulation to it without fail.

8 On Drainage

Code indication	Trouble description	Analyze and diagnose	
E1	Room temperature sensor failure	Faulty connector connection; Faulty thermistor;	
E2	Heat-exchange sensor failure	Faulty PCB;	
E4	Indoor EEPROM error	Faulty EEPROM data; Faulty EEPROM; Faulty PCB;	
E7	Communication fault between indoor and outdoor units	Indoor unit- outdoor unit signal transmission error due to wiring error; Faulty PCB;	
E14	Indoor fan motor malfunction	Operation halt due to breaking of wire inside the fan motor; Operation halt due to breaking of the fan motor lead wires; Detection error due to faulty indoor unit PCB;	

9 Check for Installation and Test Run

■ Please kindly explain to our customers how to operate through the instruction manual.

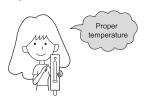
Check Items for Test Run

- □ Put check mark ✓ in boxes
- $\hfill \Box$ Gas leak from pipe connecting?
- ☐ Heat insulation of pipe connecting?
- ☐ Are the connecting wirings of indoor and outdoor firmly inserted to the terminal block?
- □ Is the connecting wiring of indoor and outdoor firmly fixed?
- ☐ Is drainage securely carried out?
- ☐ Is the earth line securely connected?
- ☐ Is the indoor unit securely fixed?
- □Is power source voltage abided by the code?
- ☐ Is there any noise?
- ☐ Is the lamp normally lighting?
- ☐ Are cooling and heating (when in heat pump) performed normally?
- ☐ Is the operation of room temperature regulator normal?

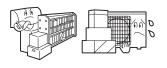
Maintenance

For Smart Use of The Air Conditioner

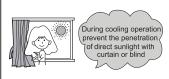
Setting of proper room temperature



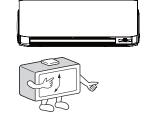
Do not block the air inlet or outlet



Close doors and windows during operation



Use the timer effectively



If the unit is not to be used for a long time, turn off the power supply main switch.



OFF

Use the louvers effectively



Remote Controller



Do not usewater, wipe the controller with a dry cloth.Do not use glass cleaner or chemical cloth.

Indoor Body



wipe the air conditioner by using a soft and dry cloth. For serious stains use a neutral detergent diluted with water.Wring the water out of the cloth before wiping, then wipe off the detergent completely.

Do not use the following for cleaning



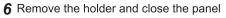


Gasoline, benzine, thinner or cleanser Mot water over 40°C(104°F) may damage the coating of the unit.

cause discoloring or deformation.

Air Filter cleaning

- **1** Press the "SMART" button for 5s to partially raise the panel.
- **2** Open the panel by hand and support the panel with a holder
- 3 Remove the filter
- 4 Clean the filter
- 5 Fit the filter



7 Long press the "SMART" button and the panel will automatically lower down and become closed

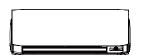




Replacement of Air Purifying Filter

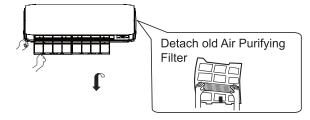
1. Open the Inlet Grille

Prop up the inlet grille by using a small device named grille-support which located in the right side of the indoor unit.



2.Detach the standard air filter

Slide the knob slightly upward to □ □ □ □ □ □ □ □ then withdraw it.



3. Attach Air Purifying Filter

Put air purifying Iter appliances into the

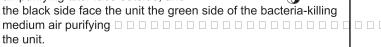


4. Attach the standard air filter

(Necessary installation)

ATTENTION:

The white side of the photocatalyst air purifying Iter face outside, and



5.Close the Inlet Grille

Close the Grille surely.

NOTE:

•	
time. In normal family, it will be solarized every 6 months.	
•	

•
a long time, no need for replacement. But in the period of using
them, you should remove the dust frequently by using vacuum
□ □ □ □ □ □ □ □ □ □ □ □ □ □ □ ⊼otherwise, its performance will

•00000000000000000000000000000000000000
cool and dry conditions avoid long time directly sunshine when
you stop using it, or its ability of sterilization will be reduced.

Cautions

WARNING

Please call Sales/Service Shop for the Installation.

Do not attempt to install the air conditioner by yourself because improper works may cause electric shock, fire, water leakage.

WARNING When abnormality such as burnt-small found, Use an exclusive immediately stop the operation button and power source contact sales shop. with a circuit breaker STRICT

ENFORCEMENT

Check proper installation of the drainage securely







Connect power supply cord to the outlet completely





STRICT

ENFORCEMENT

Do not use power supply cord in a bundle.





■ PROHIBITION

Do not start or stop the operation by disconnecting the power supply cord and so on.





PROHIBITION

Use the proper voltage



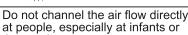


ENFORCEMENT

Take care not to damage the power supply cord.













1.Do not use power supply cord extended or connected in halfway

2.Do not install in the place where there is any possibility of inflammable gas leakage around the unit.

3.Do not get the unit exposed to vapor or oil steam.



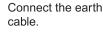
Do not insert objects into the air inlet or outlet.





Do not try to repair or







CAUTION

Do not use for the purpose of storage of food, art work, precise equipment, breeding, or cultivation.





PROHIBITION

Do not install the unit near a fireplace or other heating apparatus.





PROHIBITION

Do not place animals or plants in the direct path of the air flow





Take fresh air occasionally especially when gas appliance is running at the same time.





Check good condition of the installation stand



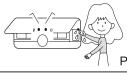


Do not place any objects on or climb on the unit.



PROHIBITION

Do not operate the switch with wet hand.





Do not pour water onto the unit for cleaning





Do not place flower vase or water containers on the top of the unit.



PROHIBITION



Trouble shooting

Before asking for service, check the following first.

	Phenomenon	Cause or check points
	The system does not restart immediately.	When unit is stopped, it won't restart immediately until 3 minutes have elapsed to protect the system. When the electric plug is pulled out and reinserted, the protection circuit will work for 3 minutes to protect the air conditioner.
Normal Performance inspection	Noise is heard	 During unit operation or at stop, a swishing or gurgling noise may be heard. At first 2-3 minutes after unit start, this noise is more noticeable. (This noise is generated by refrigerant flowing in the system.) During unit operation, a cracking noise may be heard. This noise is generated by the casing expanding or shrinking because of temperature changes. Should there be a big noise from air flow in unit operation, air filter may be too dirty.
	Smells are generated.	This is because the system circulates smells from the interior air such as the smell of furniture, paint, cigarettes.
	Mist or steam are blown out.	During COOL or DRY operation, indoor unit may blow out mist. This is due to the sudden cooling of indoor air.
	In dry mode,fan speed can't be changed.	In DRY mode, when room temperature becomes lower than temp. setting+2 °C,unit will run intermittently at LOW speed regardless of FAN setting.
	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	Is power plug inserted?Is there a power failure?Is fuse blownout?
Multiple check	Poor cooling	 Is the air filter dirty? Normally it should be cleaned every 15 days. Are there any obstacles before inlet and outlet? Is temperature set correctly? Are there some doors or
		 Are there some doors or windows left open? Is there any direct sunlight through the window during the cooling operation? (Use curtain) Are there too much heat sources or too many people in the room during cooling operation?

Cautions

- Do not obstruct or cover the ventilation grille of the air conditoner.Do not put fingers or any other things into the inlet/outlet and swing louver.
- This appliance is not intended for use by persons (including children)
 with reduced physiced, sensory or mental capabilities or lack of
 experience and knowledge, unless they have been given supervision
 or instruction concerning use of appliance by person responsible for
 their safety. Children should be supervised to ensure that they do not
 play with the appliance.

Specifications

• The refrigerating circuit is leak-proof.

The machine is adaptive in following situation

1. Applicable ambient temperature range:

	Indoor	Maximum:D.B/W.B Minimum:D.B/W.B	
Cooling	Outdoor	Maximum:D.B/W.B Minimum: D.B	43°C/26°C -20°C
	Indoor	Maximum:D.B Minimum: D.B	27°C 10°C
Heating	Outdoor	Maximum:D.B/W.B Minimum:D.B	24°C/18°C -30°C

- 2. If the power supply cord is damaged, it must be replaced by the manufacturer or its service agent or a similar qualified person.
- 3.If the fuse of indoor unit on PC board is broken,please change it with the type of T. 3.15A/ 250V. If the fuse of outdoor unit is broken,change it with the type of T.25A/250V
- 4. The wiring method should be in line with the local wiring standard.
- 5. After installation, the power plug should be easily reached.
- 6. The waste battery should be disposed properly.
- The appliance is not intended for use by young children or infirm persons without supervision.
- 8. Young children should be supervised to ensure that they do not play with the appliance.
- 9. Please employ the proper power plug, which fit into the power supply cord.
- 10. The power plug and connecting cable must have acquired the local attestation.
- 11.In order to protect the units, please turn off the A/C first, and at least 30 seconds later, cutting off the power.



Read the precautions in this manual carefully before operating the unit.



This appliance is filled with R32.

Keep this manual where the user can easily find it.

⚠ WARNING:

- ▲ Ask your dealer or qualified personnel to carry out installation work.Do not attempt to install the air conditioner yourself. Improper Installation may result in water leakage, electric shocks , fire or explosion.
- ▲ Install the air conditioner in accordance with the instructions in this installation manual
- ▲ Be sure to use only the specified accessories and parts for installation work.
- ▲ Install the air conditioner on a foundation strong enough to withstand the weight of the unit.
- ▲ Electrical work must be performed in accordance with relevant local and national regulations and with instructions in this installation manual, Be sure to use a dedicated power supply circuit only. The wiring method should be in line with the local wiring standard. The type of connecting wire is H07RN-F.
- ▲ Use a cable of suitable length,Do not use tapped wires or an extension lead as this may cause overheating, electric shocks, fire or explosion.
- ▲ All the cables shall have got the European authentication certificate. During installation, when the connecting cables break off, it must be assured that the grouding wire is the last one to be broken off.
- ▲ If refrigerant gas leaks during installation, ventilate the area immediately.oxic gas may be produced if the refrigerant comes into contact with fire,and explosion may be happen.
- ▲ After completing installation, check for refrigerant gas leakage
- ▲ When installing or relocating the air conditioner, be sure to bleed the refrigerant circuit to ensure it is free of air, and use only the specified refrigerant (R32).
- ▲ Make sure ground connection is correct and reliable.Do not earth the unit to a utility pipe, lightning conductor or telephone earth lead. Imperfect earthing may result in electric shocks.
- **▲** Be sure to install an earth leakage circuit explosion-proof breaker.
- ▲ The breaker of the air conditioner should be all-pole switch and explosion-proof. The distance between its two contacts should not be no less than 3mm. Such means for disconnection must be incorporated in the wiring.
- ▲ Do not use means to accelerate the defrosting process or to clean, other than those recommended by the manufacturer.
- ▲ The appliance must be stored in a room without continuously operating ignition sources, the radius of the storage area should be no less than 2.5 m (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 must be installed, operated and stored in a room with a floor area larger than 3m². The room should be well ventilated.
- ▲ Comply with national gas regulations.
- ▲ This appliance can be used by children aged 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given superivision or instruction concering 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.
- ▲ The air conditioner can not be discarded or scrapped Randomly. If you need please contact customer service personnel of Haier to scrap in order to obtain the correct disposal methods.
- ▲ Reusable mechanical connectors and flared joints are not allowed indoor.

ACAUTION:

- ▲ Do not install the air conditioner at any place where there is danger of flammable gas leakage.

 In the event of a gas leakage, build-up of gas near the air conditioner may cause a fire to break out.
- ▲ Tighten the flare nut according to the specified method such as with a torque wrench.If the flare nut is too tight, it may crack after prolonged use, causing refrigerant leakage.
- ▲ Take adequate steps to prevent the outdoor unit being used as a shelter by small animals. Small animals making contact with electrical parts can cause malfunctions, smoke or fire.
- ▲ Please instruct the customer to keep the area around the unit clean
- ▲ The temperature of refrigerant circuit will be high, please keep the inter-unit wire away from copper pipes that not thermally insulated.
- ▲ Only qualified personnel can handle, fill, purge and dispose of the refrigerant.
- ▲ If the unit is installed in coastal areas or other regions with sulfate gas of salty atmosphere, corrosion will occur and the unit service life will be shortened.

EUROPEAN REGULATIONS CONFORMITY FOR THE MODELS

Climate:T1 Voltage:230V

CE

All the products are in conformity with the following European provision:

- 2014/53/EU(RED)
- 2014/517/EU(F-GAS)
- 2009/125/EC(ENERGY)
- 2010/30/EU(ENERGY)
- 2006/1907/EC(REACH)

RoHS

The products are fulfilled with the requirements in the directive 2011/65/EU of the European parliament and of council on the Restriction of the use of Certain Hazardous Substances in Electrical and Electronic Equipment (EU RoHS Directive)

WEEE

In accordance with the directive 2012/19/EU of the European parliament, herewith we inform the consumer about the disposal requirements of the electrical and electronic products.

DISPOSAL REQUIREMENTS:



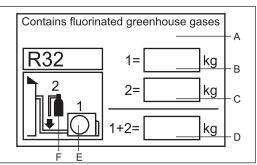
Your air conditioning product is marked with this symbol. This means that electrical and electronic products shall not be mixed with unsorted household waste. Do not try to dismantle the system yourself: the dismantling of the air

conditioning system,treatment of the refrigerant, of oil and of other part must be done by a qualified installer in accordance with relevant local and national legislation. Air conditioners must be treated at a specialized treatment facility for reuse, recycling and recovery. By ensuring this product is disposed of correctly, you will help to prevent potential negative consequences for the environment and humen health. Please contact the installer or local authority for more information. Battery must be removed from the remote controller and disposed of separately in accordance with relevant local and nationl legislation.

Wi-Fi

- -Wireless maximum transmit power (20dBm)
- -Wireless operating frequency range (2400~2483.5MHz)

IMPORTANT INFORMATION REGA-RDING THE REFRIGERANT USED



This product contains fluorinated greenhouse gases.

Do not vent into the atmosphere.

Refrigerant type: R32 GWP* value=675

GWP=global warming potential

Please fill in with indelible ink,

- 1 the factory refrigerant charge of the product
- 2 the additional refrigerant amount charged in the field and
- 1+2 the total refrigerant charge

on the refrigerant charge label supplied with the product. The filled out label must be adhered in the proximity of the product charging port (e.g. onto the inside of the stop value cover).

A contains fluorinated greenhouse gases

- B factory refrigerant charge of the product: see unit name plate
- C additional refrigerant amount charged in the field
- D total refrigerant charge
- E outdoor unit
- F refrigerant cylinder and manifold for charging

Loading and Unloading/Transporting Management/Storage Requirements

- 1) The products shall be carefully handled during loading and unloading.
- 2) Rude and barbarous handling such as kicking, throwing, dropping, bumping, pulling and rolling is not allowed.
- 3) The workers engaged in loading and unloading must be subject to necessary trainings on the potential hazards caused by barbarous handling.
- 4) Dry powder extinguishers or other suitable fire extinguishing apparatus within the period of validity shall be equipped at the loading and unloading site.
- 5) The untrained personnel cannot be engaged in loading and unloading of flammable refrigerants air conditioner.
- 6) Before loading and unloading, anti-static measures shall be taken, and phones cannot be answered during loading and unloading.
- 7) Smoking and open fire are not allowed around the air conditioner.

Transporting Management Requirements

- 1) The maximum transporting volume of finished products shall be determined as per local regulations.
- 2) The vehicles used for transporting shall be operated as per local laws and regulations.
- 3) Dedicated after-sales vehicles shall be used for maintenance, and exposed transporting of refrigerant cylinders and the products to be maintained is not allowed.
- 4) The rain cover or similar shielding material of transporting vehicles shall be provided with certain flame retardancy.
- 5) Leakage warning device of flammable refrigerant shall be installed inside the closed-type compartment.
- 6) Anti-static device shall be equipped inside the compartment of transporting vehicles.
- 7) Dry powder extinguishers or other suitable fire extinguishing apparatus within the period of validity shall be equipped inside the driver's cab.
- 8) Orange-white or red-white reflective stripes shall be pasted on the sides and tail of the transporting vehicles, to remind the vehicles behind of keeping distance.
- 9) The transporting vehicles shall run at a constant speed, and heavy acceleration/deceleration shall be avoided.
- 10) Combustibles or the static articles cannot be transported simultaneously.
- 11) High-temperature area shall be avoided during transporting, and necessary radiating measures shall be taken in case the temperature inside the compartment is too high.

Storage Requirements

- 1) The storage package of equipment used shall be such that no leakage of refrigerant will be caused due to mechanical damage of the equipment inside.
- 2) The maximum quantity of the equipment allowed to be stored together shall be determined as per local regulations.

Installation Instructions

WARNING!

- ★ The area of the room in which R32 refrigerant air conditioner is installed cannot be less than the minimum area specified in the table below, to avoid potential safety problems due to out-of-limit of refrigerant concentration inside the room caused by leakage of refrigerant from refrigeration system of the indoor unit.
- ★ Once the horn mouth of connecting lines is fastened, it may not be used again (the air tightness may be affected).
- ★ A whole connector wire shall be used for indoor/outdoor unit as required in the operation specification of installation process and operation instructions.

Minimum Room Area

	Type	LFL kg/m³	Total Mass Charged/kg Minimum Room Area/m ²					
ſ	R32	2 0.307	1.781	2.519	3.708	4.932	6.170	7.965
		0.307	3	6	13	23	36	60

Safety Awareness

- 1. Procedures: operation shall be made as per controlled procedures to minimize the probability of risks.
- Area: area shall be divided and isolated appropriately, and operation in an enclosed space shall be avoided. Before the refrigeration system is started or before hot working, ventilation or opening of the area shall be guaranteed.
- 3. Site inspection: the refrigerant shall be checked.
- Fire control: the fire extinguisher shall be placed nearby, and fire source or high temperature is not allowed; the sign of "No smoking" shall be arranged.

Unpacking Inspection

- 1. Indoor unit: nitrogen is sealed during the delivery of indoor units (inside the evaporator), and the red sign at the top of the green plastic seal cap on the evaporator air pipes of the indoor unit shall be checked first after unpacking. In case the sign is raised, the nitrogen sealed still exists. Afterwards, the black plastic seal cap at the joint of evaporator liquid pipes of the indoor unit shall be pressed, to check whether nitrogen still exists. In case no nitrogen is sprayed out, the indoor unit is subject to leakage, and installation is not allowed.
- Outdoor unit: the leak detection equipment shall be extended into the packing box of the outdoor unit, to check whether the refrigerant is leaking. If the refrigerant leakage is identified, installation is not allowed, and the outdoor unit shall be delivered to the maintenance department.

Inspection on Installation Environment

- 1. The room area checked cannot be less than the area specified on the warning sign of the indoor unit.
- 2. Inspection on the surrounding environment of place of installation: the outdoor unit of flammable refrigerants air conditioner cannot be installed inside an enclosed room reserved.
- 3. Power supply, switches or other high-temperature articles such as the fire source and oil heater shall be avoided below the indoor unit.
- The power supply shall be provided with earthing wire and be reliably earthed. 4.
- While punching the wall with an electric drill, whether embedded water/electricity/gas pipelines are 5. designed at the hole preset by the user shall be verified in advance. It is recommended that the through-wall holes reserved shall be used as much as possible.

Safety Principles of Installation

- 1. Favorable ventilation shall be maintained at the place of installation (doors and windows are opened).
- Open fire or high-temperature heat source (including welding, smoking and oven) higher than 548 °C is not allowed within the scope of flammable refrigerant.
- 3. Anti-static measures shall be taken, such as the wearing of cotton clothes and cotton gloves.
- The place of installation shall be convenient for installation or maintenance, and cannot be adjacent to heat 4. source and flammable and combustible environment.
- In case of refrigerant leakage of the indoor unit during installation, the valve of the outdoor unit shall be closed immediately, and windows shall be opened, and all the personnel shall be evacuated. After the leakage of refrigerant is handled, the indoor environment shall be subject to concentration detection. Further handling is not allowed until the safety level is reached.
- In case the product is damaged, it must be delivered to the maintenance point. Welding of refrigerant pipelines at the user's site is not allowed.
- The installation position of air conditioner shall be convenient for installation or maintenance. Barriers shall be avoided around the air inlet/outlet of the indoor/outdoor unit, and the electrical appliance, power switches, sockets, valuables and high-temperature products within the scope of both sidelines of the indoor unit shall be avoided.



No fire source around the place of installation



Cotton clothes



Anti-static gloves



BEWARE ELECTROSTATICS



Goggles



Read operator' manual



Read technical manual



Operator' manual; operating instructions

• Electrical Safety Requirements

Note:

- 1. The surrounding conditions (ambient temperature, direct sunlight and rainwater) shall be noticed during electrical wiring, with effective protective measures being taken.
- 2. Copper wire cable in line with local standards shall be used as the power line and connector wire.
- 3. Both the indoor unit and outdoor unit shall be reliably earthed.
- 4. Wiring for the outdoor unit shall be made first and then the indoor unit. The air conditioner can only be powered on after wiring and pipe connection.
- 5. The dedicated branch circuit must be used, and leakage protector with sufficient capacity must be installed.

Qualification Requirements of Installer

Relevant qualification certificate must be obtained as per national laws and regulations.

• Indoor Unit Installation

1. Fixation of wall panel and piping layout

In case of left/right water pipe connection for the indoor unit, or in case the evaporator interface of the indoor unit and the horn mouth of the connecting piping cannot be extended to the outdoor side for installation, the connector pipes shall be connected to the evaporator piping interface of the indoor unit in the process of horn mouth.

2. Piping layout

During layout of connecting pipes, drain hose and connector wires, the drain hose and connecting wire shall be placed at the bottom and top respectively. The power line cannot be twined with the connector wire. The drain pipes (especially inside the room and machine) must be winded with thermal insulation materials.

3. Nitrogen charging for pressure maintaining and leak detection

After the evaporator of the indoor unit is connected to the connector pipe (after welding), nitrogen more than 4.0MPa shall be charged inside the evaporator and the piping connected to evaporator with a nitrogen cylinder (adjusted by a reducing valve). Afterwards, the valve of the nitrogen cylinder shall be closed, for leak detection with soapy water or leak detecting solution. The pressure shall be maintained for more than 5 minutes, and then whether the system pressure is reduced or not shall be observed. In case the pressure is reduced, leakage can be identified. After the leak point is handled, the steps above shall be repeated.

After the evaporator of the indoor unit is connected to connecting piping, nitrogen shall be charged for pressure maintaining and leak detection. Afterwards, the evaporator shall be connected to the two-way stop valve and three-way stop valve of the outdoor unit. After the copper cap of the connecting piping is fastened, nitrogen more than 4.0MPa shall be charged at the access hole of the three-way stop valve with a charging hose. The valve of the nitrogen cylinder shall be closed, for leak detection with soapy water or leak detecting solution. The pressure shall be maintained for more than 5 minutes, and then whether the system pressure is reduced or not shall be observed. In case the pressure is reduced, leakage can be identified. After the leak point is handled, the steps above shall be repeated.

The operation above can also be completed after the indoor unit is connected to the connecting pipelines and the two-way stop valve and three-way stop valve of the outdoor unit, after the access hole of the outdoor unit is connected to the nitrogen cylinder and pressure gauge and after more than 4.0MPa nitrogen is charged. No leak points are identified in the leak detection at the joint/welding junction of the indoor unit and at the joint of connecting pipelines of the two-way stop valve and three-way stop valve of the outdoor unit. It must be guaranteed that each joint is available for leak detection during installation.

The next step (vacuumizing with a vacuum pump) can only be continued after the installation steps (nitrogen charging for pressure maintaining and leak detection normal) are completed.

• Outdoor Unit Installation

1. Fixation and connection

Note:

- a) Fire source shall be avoided within 3m around the place of installation.
- b) The leak detection equipment of refrigerant shall be placed at a low position in the outdoor, and shall be opened.



1) Fixation

The support of the outdoor unit shall be fixed onto the wall surface, and then the outdoor unit shall be fixed onto the support horizontally. In case the outdoor unit is wall-mounted or roof-mounted, the support shall be firmly fixed, to avoid the damage of strong wind.

2) Installation of connecting pipes

The cone of the connecting pipes shall be aligned with the conical surface of corresponding valve connector. The nut of connecting pipes shall be installed at a proper position and then be tightened with a spanner. Excessive tightening torque shall be avoided, or otherwise the nut may be damaged.

Vacuumizing

A digital vacuum gauge shall be connected for vacuumizing. The duration of vacuumizing shall be at least 15 minutes, and the pressure of the vacuum gauge shall be below 60Pa. Afterwards, the vacuumizing equipment shall be closed, and whether the reading of the digital vacuum gauge is increased or not shall be observed after the pressure is maintained for 5 minutes. In case no leakage is identified, the two-way stop valve and three-way stop valve of the outdoor unit may be opened. Finally, the vacuumizing hose connected to the outdoor unit can be disassembled.

Leak Detection

The joint of connecting pipes for the outdoor unit shall be subject to leak detection with soap bubble or dedicated leak detection equipment.

Post-installation Inspection Items and Test Run

Post-installation Inspection Items

Items to Be Checked	Consequence of Improper Installation
Whether the installation is firm or not	The unit may fall, vibrate or make a noise
Whether the inspection on air leakage is completed	The refrigerating capacity (heating capacity) may be
	insufficient
Whether the unit is fully insulated	Condensation or drip may occur
Whether the drainage is smooth or not	Condensation or drip may occur
Whether the power voltage is identical to that	Failure may occur or the parts may be burned
marked on the nameplate	
Whether the circuit and pipeline are installed	Failure may occur or the parts may be burned
correctly	
Whether the unit is safely earthed	Electric leakage may occur
Whether the type of wire is in line with relevant	Failure may occur or the parts may be burned
regulations	
Whether barriers are identified at the air inlet/outlet	The refrigerating capacity (heating capacity) may be
of the indoor/outdoor unit	insufficient
Whether the length of refrigerant pipes and the	The refrigerant amount charged cannot be confirmed
refrigerant amount charged are recorded	

Test Run

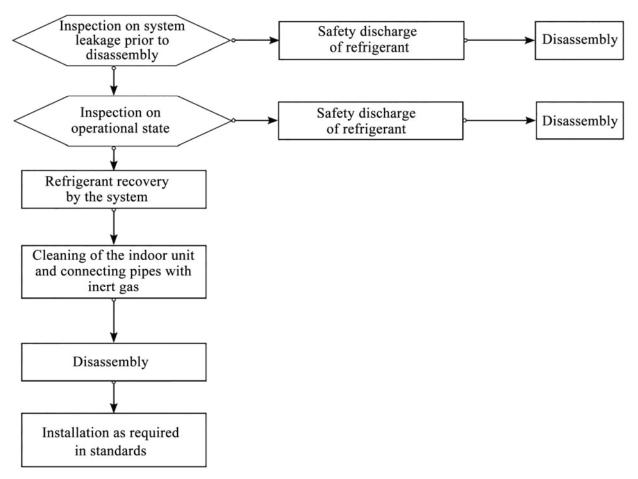
1. Preparations

- (1) Power on is not allowed before all the installation operations are completed and before the leak detection is proven qualified.
- (2) The control circuit shall be connected correctly and all the wires shall be firmly connected.
- (3) The two-way stop valve and three-way stop valve shall be opened.
- (4) All the scattered articles (especially the metal filing and thread residue) shall be removed from the unit body.

2. Methods

- (1) Switch on the power supply and press the "ON/OFF" on the remote controller, after which the air conditioner will start operating.
- (2) Press "Mode" to select refrigeration, heating and sweeping wind, and observe whether the air conditioner is under normal operation.

Relocation Procedures



Note: in case relocation is required, the joint of evaporator gas/liquid pipes of the indoor unit shall be cut off with a cutting knife. Connection is only allowed after re-flaring (the same to the outdoor unit).

Maintenance Instructions

Maintenance Precautions

Precautions

- For all the faults requiring welding the refrigeration pipelines or components inside the refrigeration system of R32 refrigerant air conditioners, maintenance at the user's site is never allowed.
- For the faults requiring radical disassembly and bending operation of the heat exchanger, such as the replacement of the outdoor unit chassis and integral disassembly of the condenser, inspection and maintenance at the user's site are never allowed.
- For the faults requiring replacement of the compressor or parts & components of refrigeration system, maintenance at the user's site is not allowed.
- For other faults not involved in the refrigerant container, internal refrigeration pipelines and refrigeration elements, the maintenance at the user's site is allowed, including the cleaning and dredging of the refrigeration system requiring no disassembly of refrigeration elements and no welding.
- In case replacement of gas/liquid pipes is required during maintenance, the joint of evaporator gas/liquid pipes of the indoor unit shall be cut off with a cutting knife. Connection is only allowed after re-flaring (the same to the outdoor unit).

Qualification Requirements of Maintenance Personnel

- 1. All the operators or the maintenance personnel involved in refrigerating circuits shall be provided with the effective certificate issued by an industry-accepted assessment institute, to ensure that they are qualified for safety disposal of refrigerant as required in the assessment regulations.
- 2. The equipment can only be maintained and repaired as per the method recommended by the manufacturer. In case the assistance from personnel of other disciplines is required, the assistance shall be supervised by the personnel with qualification certificate involved in flammable refrigerant.

Inspection on Maintenance Environment

- Before operation, the refrigerant leaked in the room is not allowed.
- The area of the room in which maintenance is made shall be in line with the nameplate.
- Continuous ventilation shall be maintained during maintenance.
- Open fire or high-temperature heat source higher than 548 degree which can easily give birth to open fire is not allowed inside the room within the maintenance area.
- During maintenance, the phones and the radioactive electronics of all the operators inside the room must be powered off.
- One dry powder or carbon dioxide extinguisher shall be equipped inside the maintenance area, and the extinguisher must be under available state.

Maintenance Site Requirements

- The maintenance site shall be provided with favorable ventilation and must be flat. Arrangement of the maintenance site inside the basement is not allowed.
- Welding zone and non-welding zone shall be divided at the maintenance site, and shall be clearly marked. A certain safety distance must be guaranteed between the two zones.
- Ventilators shall be installed at the maintenance site, and exhaust fans, fans, ceiling fans, floor fans and dedicated exhaust duct can be arranged, to meet the requirements of ventilation volume and uniform exhaust, and to avoid accumulation of refrigerant gas.
- Leak detection equipment for flammable refrigerant shall be equipped, with relevant management system being established. Whether the leak detection equipment is under available state shall be confirmed before maintenance.
- Sufficient dedicated vacuum pumps of flammable refrigerant and refrigerant charging equipment shall be equipped, with relevant management system for maintenance equipment being established. It shall be guaranteed that the maintenance equipment can only be used for vacuumizing and charging of one type of flammable refrigerant, and mixed usage is not allowed.
- The master power switch shall be arranged outside the maintenance site, with protective (anti-explosive) device being equipped.
- Nitrogen cylinders, acetylene cylinders and oxygen cylinders shall be placed separately. The distance between the gas cylinders above and the working area involved in open fire shall be at least 6m. The anti-backfire valve shall be installed for the acetylene cylinders. The color of the acetylene cylinders and oxygen cylinders installed shall meet the international requirements.
- The warning sign of "No Fire" shall be arranged inside the maintenance area.
- Fire control device suitable for electric appliance such as the dry powder extinguisher or carbon dioxide extinguisher shall be equipped, and shall always be under the available state.
- The ventilator and other electrical equipment at the maintenance site shall be relatively fixed, with standardized pipe routing. Temporary wires and sockets at the maintenance site are not allowed.

Leak Detection Methods

- The environment in which the refrigerant leakage is checked shall be free from potential ignition source. Leak detection with halogen probes (or any other detector with open fire) shall be avoided.
- For the system containing flammable refrigerant, leak detection may be realized with electronic leak detection equipment. During leak detection, the environment in which the leak detection equipment is calibrated shall be free from refrigerant. It shall be guaranteed that the leak detection equipment will not become potential ignition source, and is applicable to the refrigerant to be detected. Leak detection equipment shall be set at a percentage of the LFL of the refrigerant and shall be calibrated to the refrigerant employed, and the appropriate percentage of gas (25 % maximum) is confirmed.
- The fluid used for leak detection shall be applicable to most of the refrigerant. The use of chlorine-containing solvent shall be avoided, to avoid chemical reaction between chlorine and refrigerant and corrosion to copper pipelines.
- In case leakage is suspected, the open fire at the site shall be evacuated or be put out.
- In case welding is required at the leakage position, all the refrigerants shall be recovered, or be isolated at a position far from the leak point with a stop valve. Before and during welding, the whole system shall be purified with OFN.

Safety Principles

- During product maintenance, favorable ventilation shall be guaranteed at the maintenance site, and the close of all the doors/windows is not allowed.
- Operation with open fire is not allowed, including welding and smoking. The use of phones is also not allowed. The user shall be informed that cooking with open fire is not allowed.
- During maintenance in a dry season, when the relative humidity is less than 40%, anti-static measures shall be taken, including the wearing of cotton clothes and cotton gloves.
- In case the leakage of flammable refrigerant is identified during maintenance, forced ventilation measures shall be taken immediately, and the source of leak shall be plugged.
- In case the product damaged must be maintained by disassembling the refrigeration system, the product must be delivered to the maintenance point. Welding of refrigerant pipelines at the user's site is not allowed.
- During maintenance, in case re-treatment is required due to lack of fittings, the air conditioner shall be reset.
- The refrigeration system must be safely earthed in the whole course of maintenance.
- For the door-to-door service with refrigerant cylinders, the refrigerant charged inside the cylinder cannot exceed the specified value. The cylinder placed in vehicles or at the installation/maintenance site shall be fixed perpendicularly and be kept away from heat sources, ignition source, source of radiation and electric appliance.

Maintenance Items

Maintenance Requirements

- Before the refrigeration system is operated, the circulating system shall be cleaned with nitrogen. Afterwards, the outdoor unit shall be vacuumized, the duration of which cannot be less than 30 minutes. Finally, 1.5~2.0MPa OFN shall be used for nitrogen flushing (30 seconds~1 minute), to confirm the position requiring treatment. Maintenance of the refrigeration system is only allowed after the residual gas of flammable refrigerant is removed.
- During the use of refrigerant charging tools, cross contamination of different refrigerants shall be avoided. The total length (including the refrigerant pipelines) shall be shortened as much as possible, to reduce the residual of refrigerant inside.
- The cylinders of refrigerant shall be kept upright, and be fixed.
- Before refrigerant charging, the refrigeration system shall be earthed.
- The refrigerant charged shall be of the type and volume specified on the nameplate. Excessive charging is not allowed.
- After maintenance of the refrigeration system, the system shall be sealed with a safe manner.
- The maintenance in progress shall not damage or lower the original class of safety protection of the system.

Maintenance of Electrical Components

- Partial of the electrical component under maintenance shall be subject to inspection on refrigerant leakage with dedicated leak detection equipment.
- After the maintenance, the components with safety protection functions cannot be disassembled or removed.
- During the maintenance of sealing elements, before opening the seal cover, the air conditioner shall be powered off first. When power supply is required, continuous leak detection shall be carried out at the most dangerous position, to avoid potential risks.
- During maintenance of electrical components, the replacement of enclosures shall not affect the level of protection.
- After maintenance, it shall be guaranteed that the sealing functions will not be damaged or the sealing materials will not lose the function of preventing the entry of flammable gas due to aging. The substitute components shall meet the recommended requirements of the air conditioner manufacturer.

Maintenance of Intrinsically Safe Elements

The intrinsically safe element refers to the components working continuously inside flammable gas without any risks.

- Before any maintenance, leak detection and inspection on earthing reliability of the air conditioner must be carried out, to ensure no leakage and reliable earthing.
- In case the allowable voltage and current limit may be surpassed during the service of the air conditioner, any inductance or capacitance cannot be added in the circuit.
- Only the elements appointed by the air conditioner manufacturer can be used as the parts and components replaced, or otherwise a fire may be triggered in case of refrigerant leakage.
- For the maintenance not involved in system pipelines, the system pipelines shall be well protected, to ensure that no leakage will be caused due to maintenance.
- After maintenance and before test run, the air conditioner must be subject to leak detection and inspection on earthing reliability with leak detection equipment or leak detecting solution. It shall be guaranteed that the startup inspection is carried out without leakage and under reliable earthing.

Removal and Vacuumizing

The maintenance or other operations of the refrigeration circuit shall be made as per conventional procedures. Moreover, the flammability of refrigerant shall also be mainly considered. The following procedures shall be followed:

- Refrigerant clearing;
- Pipeline purification with inert gas;
- Vacuumizing;
- Pipeline purification again with inert gas;
- Pipeline cutting or welding. The refrigerant shall be recovered to a proper cylinder. The system shall be purged with OFN, to ensure safety. The step above may need to be repeated for several times. Compressed air or oxygen cannot be used for purging.

In the course of purging, OFN shall be charged inside the refrigeration system under vacuum state, to reach the operating pressure. Afterwards, the OFN shall be discharged to the atmosphere. Finally, the system shall be vacuumized. The step above shall be repeated until all the refrigerants in the system are cleared. The OFN charged for the last time shall be discharged to the atmosphere. Afterwards, the system can be welded. The operation above is necessary in case of pipeline welding.

It shall be guaranteed that no alight fire source is around the outlet of the vacuum pump and the ventilation is favorable.

Welding

- Favorable ventilation must be guaranteed in the maintenance area. After the maintenance machine is subject to the vacuumizing above, the system refrigerant can be discharged on the outdoor unit side.
- Before the outdoor unit is welded, it must be guaranteed that no refrigerant is inside the outdoor unit and the system refrigerant has been discharged and cleared.
- The refrigeration pipelines cannot be cut with a welding gun under any circumstance. The refrigeration pipelines must be disassembled with a pipe cutter, and the disassembly must be carried out around a ventilation opening.

Refrigerant Charging Procedures

The following requirements are added as the supplementation of conventional procedures:

- During the use of refrigerant charging tools, cross contamination of different refrigerants shall be avoided. The total length (including the refrigerant pipelines) shall be shortened as much as possible, to reduce the residual of refrigerant inside;
- The cylinders of refrigerant shall be kept upright;
- Before refrigerant charging, the refrigeration system shall be earthed;
- A label must be pasted on the refrigeration system after refrigerant charging;
- Excessive charging is not allowed; the refrigerant shall be charged slowly;
- In case system leakage is identified, refrigerant charging is not allowed unless the leak point is plugged;
- During refrigerant charging, the charging amount shall be measured with an electronic scale or a spring scale. The connecting hose between the refrigerant cylinder and the charging equipment shall be relaxed appropriately, to avoid impact on the measuring accuracy due to stress.

Requirements on storage site of refrigerant

- The cylinder of refrigerant shall be placed in a -10~50°C environment with favorable ventilation, and warning labels shall be pasted;
- The maintenance tool in contact with the refrigerant shall be stored and used separately, and the maintenance tool of different refrigerants cannot be mixed.

Scrapping and Recovery

Scrapping

Before scrapping, the technician shall be completely familiar with the equipment and all its features. The safe recovery of refrigerant is recommended. In case the refrigerant recovered needs to be reused, before which the sample of refrigerant and oil shall be analyzed. The power supply required shall be guaranteed before tests.

- (1) The equipment and operation shall be well known;
- (2) Power supply shall be switched off;
- (3) The followings shall be guaranteed before scrapping:
- The mechanical equipment shall be convenient for operation on the cylinder of refrigerant (if necessary);
- All personal protective equipment is available and being used correctly;
- The whole course of recovery shall be guided by qualified personnel;
- The recovery equipment and cylinders shall be in line with corresponding standards.
- (4) The refrigeration system shall be vacuumized if possible;

- (5) In case the vacuum state cannot be reached, vacuumizing shall be carried out from numerous positions, to pump the refrigerant in each part of the system out;
- (6) It shall be guaranteed that the capacity of cylinders is sufficient before recovery;
- (7) The recovery equipment shall be started and operated as per the operation instructions of the manufacturer;
- (8) The cylinder cannot be charged too full. (The refrigerant charged cannot exceed 80% of the capacity of cylinders)
- (9) The maximum operating pressure of cylinders cannot be surpassed even only lasting for a short term;
- (10) After refrigerant charging is completed, the cylinder and equipment must be evacuated rapidly, and all the stop valves on the equipment must be closed;
- (11) Before purification and tests, the refrigerant recovered cannot be charged into another refrigeration system. **Note:**

The air conditioner shall be marked (with dates and signature) after being scrapped and the refrigerant is discharged. It shall be guaranteed that the sign on the air conditioner can reflect the flammable refrigerant charged inside.

Recovery

During maintenance or scrapping, the refrigerant inside the refrigeration system needs to be cleared. It is recommended that the refrigerant be cleared thoroughly.

The refrigerant can only be charged into a dedicated cylinder, the capacity of which shall match with the refrigerant amount charged in the whole refrigeration system. All cylinders to be used are designated for the recovered refrigerant and labeled for that refrigerant (Dedicated Cylinder for Refrigerant Recovery). The cylinders shall be equipped with pressure relief valves and stop valves under favorable state. The empty cylinder shall be vacuumized before usage and be kept under normal temperature if possible.

The recovery equipment shall always be under favorable working state, and be equipped with operation instructions, to facilitate information search. The recovery equipment shall be applicable to the recovery of flammable refrigerant. Moreover, weighing apparatus under available state with measurement certificates shall be equipped. In addition, removable attachment joints free from leakage shall be used as the hose, and shall always be under favorable state. Whether the recovery equipment is under favorable state and is properly maintained and whether all the electrical components are sealed shall be checked before usage, to avoid fire in case of refrigerant leakage. If you have any question, please consult the manufacturer.

The refrigerant recovered shall be delivered back to the manufacturer in appropriate cylinders, with transporting instructions being attached. Mixing of refrigerant in recovery equipment (especially the cylinders) is not allowed.

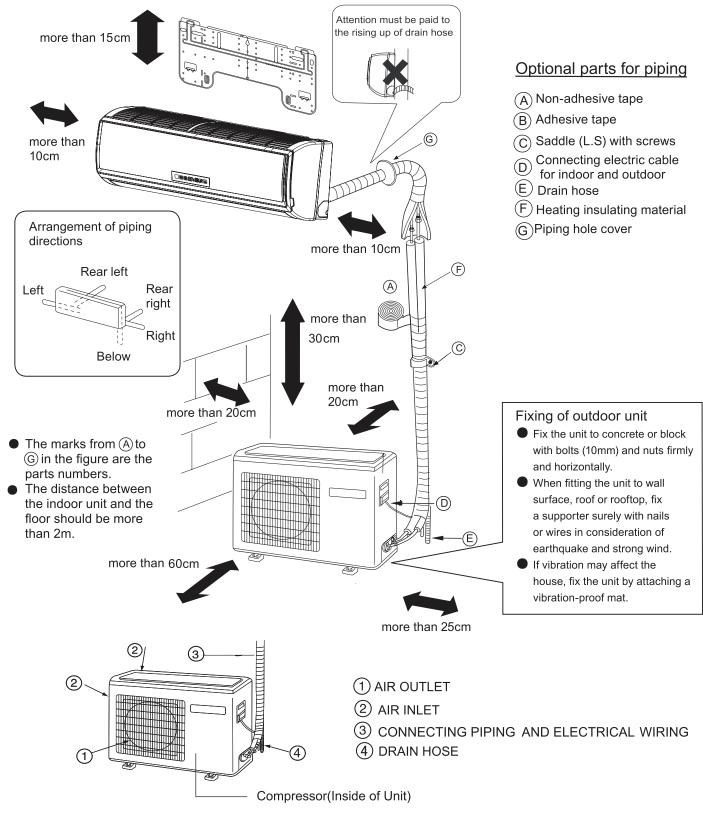
During transporting, the space in which the flammable refrigerant air conditioners are loaded cannot be sealed. Anti-static measures shall be taken for the transporting vehicles if necessary. Meanwhile, during the transporting, loading and unloading of air conditioners, necessary protective measures shall be taken, to protect the air conditioner from being damaged.

During removal of the compressor or clearing of the compressor oil, it shall be guaranteed that the compressor is vacuumized to a proper level, to ensure no residual flammable refrigerant is left inside the lubricating oil. The vacuumizing shall be completed before the compressor is delivered back to the manufacturer. The vacuumizing can only be accelerated by heating the compressor housing through electrical heating. Safety shall be guaranteed when the oil is discharged from the system.

Indoor/Outdoor Unit Installation Drawings

The models adopt HFC refrigerant R32.

For installation of the indoor units,refer to the installation manual which was provided with the units. (The diagram shows a wall-mounted indoor unit.)





If using the left side drain pipe, make sure the hole is got through.

The above indoor and outdoor units' picture is just for your reference. Please be subject to the actual product purchased.

Carefully read the following information in order to operate the air conditioner correctly.

Below are listed three kinds of Safety Precautions and Suggestions.

▲ WARNING Incorrect operations may result in severe consequences of death or serious injuries.

⚠ CAUTION Incorrect operations may result in injuries or machine damages; in some cases may cause serious consequences.

INSTRUCTIONS: These information can ensure the correct operation of the machine.

Symbols used in the illustrations

- :Indicates an action that must be avoided.
- Indicates that important instructions must be followed.
- :Indicates a part which must be grounded.
- (4) :Beware of electric shock (This symbol is displayed on the main unit label.)

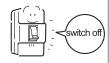
After reading this handbook, hand it over to those who will be using the unit.

The user of the unit should keep this mamual at hand and make it available to those who will be performing repairs or relocating the unit. Also, make it available to the new user when the user changes hands.

Be sure to conform with the following important Safety Precautions.

⚠ WARNING

If any abnormal phenomena is found (e. g.smell of firing), please cut off the power supply immediately, and contact the dealer to find out the handling method.

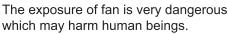


Open the window and well ventilated the room. In such case, to continue using the conditioner will damage the conditioner, and may cause electrical shock or fire

 After a long time use of air-conditioner the base should be checked for any damages.

If the damaged base is not repaired, the unit may fall down and cause accidents.

 Don't dismantle the outlet of the outdoor unit.





 When need maintenance and repairment, call dealer to handle it.

Incorrect maintenance and repairment may cause water leak, electrical shock and fire hazard.



⚠ WARNING

- No goods or nobody is permitted to placed on or stand on outdoor unit. The falling of goods and people may cause accidents.
- Don't operate the air-conditioner with damp hands. Otherwise it will be shocked.
- Only use explosion-proof fuse. May not use wire or any other materials replacing fuse, otherwise it may cause faults or fire accidents.



- Use discharge pipe correctly to ensure efficient discharge. Incorrect pipe use may cause water leaking.
- Installed electrical-leaking circuit breaker. It easily cause electrical shock without circuit breaker.

- Air-conditioner can't be installed in the environment with inflammable gases because the inflammable gases near air-conditioner may cause fire hazard.
- Please let the dealer be responsible for installing the conditioner. Incorrect installation may cause water leak, electrical shock and fire hazard.
- Call the dealer to take measures to prevent the refrigerant from leaking.
 - If conditioner is installed in a small room, be sure to take every measure in order to prevent suffocation accident even in case of refrigerant leakage.
- When conditioner is installed or reinstalled, the dealer should be responsible for them.
- Incorrect installation may cause water leaking, electrical shock and fire hazard.
- Connect earthing wire. Earthing wire should not be connected to the gas pipe, water pipe, lightning rod or phone line, incorrect earthing may cause shock.



⚠ WARNING

- Have the unit professionally installed.
 Improper installation by an unqualified person may result in water leak, electric shock, or fire.
- Place the unit on a stable, level surface that withstands the weight of the unit to prevent the unit from tipping over or falling causing injury as a result.
- Only use specified cables for wiring. Securely connect each cable, and make sure that the cables are not straining the terminals.
- Cables not connected securely and properly may generate heat and cause fire.
- Take necessary safety measures against typhoons and earthquakes to prevent the unit from falling over.
- Do not make any changes or modifications to the unit. In case of problems, consult the dealer.
 If repairs are not made properly, the unit may leak water and present a risk of electric shock, or it may produce smoke or cause fire.

- Be sure to carefully follow each step in this handbook when installing the unit.
- Improper installation may result in water leak, electric shock, fire or explosion.
- Have all electrical work performed by a licensed electrician according to the local regulations and the instructions given in this manual. Secure a circuit designated exclusively to the unit.
- Improper installation or a lack of circuit capacity may cause the unit to malfunction or present a risk of electric shock, fire or explosion.
- Securely attach the terminal cover(panel) on the unit.
 If installed improperly, dust and/or water may enter the unit and present a risk of electric shock, smoke or fire.
- Only use refrigerant R32 as indicated on the unit when installing or relocating the unit.
- The use of any other refrigerant or an introduction of air into the unit circuit may cause the unit to run an abnormal cycle and abnormal cycle and cause the unit to burst.

⚠ WARNING

- Do not touch the fins on the heat exchanger with bare hands, for they are sharp and dangerous.
- In the event of a refrigerant gas leak, provide adequate ventilation to the room.
- If leaked refrigerant gas is exposed to a heat source, noxious gases, fire or explosion will be caused.
- Do not try to defeat the safety features of the devices, and do not change the settings.
- Defeating the safety features on the unit such as the pressure switch and temperature switch or using parts other than the dealer or specialist may result in fire or explosion.
- When installing the unit in a small room, safeguard against hypoxia that results from leaked refrigerant reaching the threshold level.
- Consult the dealer for necessary measures to take.
- When relocating the air conditioner, consult the dealer or a specialist.
- Improper installation may result in water leak, electric shock, fire or explosion.
- After completing the service work, check for a refrigerant gas leak.
- If leaked gas refrigerant is exposed to a heat source such as fan heater, stove, and electric grill, noxious gases, fire or explosion.
- Only use specified parts.
- Have the unit professionally installed. Improper installation may cause water leak, electric shock, smoke, fire, explosion.

Precautions for Handling Units for Use with R32

⚠ Caution

Do not use the existing refrigerant piping

- The old refrigerant and refrigerator oil in the existing piping contain a large amount of chlorine, which will cause the refrigerator oil in the new unit to deteriorate.
- R32 is a high-pressure refrigerant, and the use of the existing piping may result in bursting.

Keep the inner and outer surfaces of the pipes clean and free of contaminants such as sulfur, oxides, dust/dirt shaving particles,oils,and moisture.

• Contaminants inside the refrigerant piping will cause the refrigerant oil to deteriorate.

Use a vacuum pump with a reverse-flow check valve.

 If other types of valves are used, the vacuum pump oil will flow back into the refrigerant cycle and cause the refrigerator oil to deteriorate.

Do not use the following tools that have been used with the conventional refrigerants. Prepare tools that are for exclusive use with R32 .

(Gauge manifold, charging hose, gas leak detector, reverse-flow check valve, refrigerant charge base, vacuum gauge, and refrigerant recovery equipment.)

- If refrigerant and/or refrigerant oil left on these tools are mixed in with R32 , or if water is mixed with R32, it will cause the refrigerant to deteriorate.
- Since R32 does not contain chlorine, gas-leak detectors for conventional refrigerators will not work.

⚠ Caution

Store the piping to be used during installation indoors, and keep both ends of the piping sealed until immediately before brazing.(keep elbows and other joints wrapped in plastic.)

• If dust, dirt, or water enters the refrigerant cycle, it may cause the oil in the unit to deteriorate or may cause the compressor to malfunction.

Use a small amount of ester oil, ether oil, or alkylbenzene to coat flares and flange connections.

• A large amount of mineral oil will cause the refrigerating machine oil to deteriorate.

Use liquid refrigerant to charge the system.

 Charge the unit with gas refrigerant will cause the refrigerant in the cylinder to change its composition and will lead to a drop in performance Do not use a charging cylinder.

• The use of charging cylinder will change the composition of the refrigerant and lead to power loss.

Exercise special care when handling the tools.

 An introduction of foreign objects such as dust, dirt or water into the refrigerant cycle will cause the refrigerating machine oil to deteriorate.

Only use R32 refrigerant.

• The use of refrigerants containing chlorine(i.e. R22) will cause the refrigerant to deteriorate.

Before Installing the Unit

⚠ Caution

Do not install the unit in a place where there is a possibility of flammable gas leak.

• Leaked gas accumulated around the unit may start a fire.

Do not use the unit to preserve food, animals, plants, artifacts, or for other special purposes.

• The unit is not designed to provide adepuate conditions to preserve the quality of these items.

Do not use the unit in an unusual environment

- The use of the unit in the presence of a large amount of oil, steam, acid, alkaline solvents or special types of sprays may lead to a remarkable drop in performance and/or malfunction and presents a risk of electric shock, smoke, or fire.
- The presence of organic solvents, corroded gas (such as ammonia,sulfur compounds,and acid may cause gas or water leak.)

When installing the unit in a hospital, take necessary measures against noise.

 High-frequency medical equipment may interfere with the normal operation of the air conditioning unit or the air conditioning unit may interfere with the normal operation of the medical equipment

Do not place the unit on or over things that may not get wet.

- When humidity level exceeds 80% or when the drainage system is clogged, indoor units may drip water.
- Installation of a centralized drainage system for the outdoor unit may also need to be considered to prevent water drips from the outdoor units.

Before Installing (Relocating) the Unit or Performing Electric Work

⚠ Caution

Ground the unit.

 Do not connect the grounding on the unit to gas pipes, water pipes, lightning rods, or the grounding terminals of telephones. Improper grounding presents a risk of electric shock, smoke, fire, or the noise caused by improper grounding may cause the unit to malfunction.

Make sure the wires are not subject to tension.

• If the wires are too taut, they may break or generate heat and/or smoke and cause fire.

Install a explosion-proof breaker for current leakage at the power source to avoid the risk of the electric shock.

- Without a breaker for current leakage will cause risks of electric shock, fire or explosion.
- Do not use large-capacity fuses, steel wire, or copper wire.
 Damaging the unit ,fire, smoke or explosion will be caused otherwise.

Do not spray water on the air conditioners or immerse the air conditioners in water.

• Water on the unit presents a risk of electric shock.

Periodically check the platform on which is placed for damage to prevent the unit from falling.

• If the unit is left on a damaged plarform, it may topple over, causing injury.

When installing draining pipes, follow the instructions in the manual, and make sure that they properly drain water so as to avoid dew condensation.

• If not installed properly, they may cause water leaks and damage the furnishings.

Properly dispose of the packing materials.

- Things such as nails may be included in the package. Dispose of them properly to prevent injury.
- Plastic bags present a choking hazard to children. Tear up the plastic bags before disposing of them to prevent accidents.

Before the Test Run

⚠ Caution

Do not operate switches with wet hands to avoid electric.

Do not touch the refrigerant pipes with bare hands during and immediately after operation.

 Depending on the state of the refrigerant in the system, certain parts of the unit such as the pipes and compressor may become very cold or hot and may subject the person to frost bites or burning.

Do not operated the unit without panels and safety guards in their proper places.

• They are there to keep the users from injury from accidentally touching rotating, high-tempreture or high-voltage parts.

Do not turn off the power immediately after stopping the unit.

 Allow for at least five minutes before turning off the unit, otherwise the unit may leak water or experience other problems.

Do not operate the unit without air filters.

 Dust particles in the air may clog the system and cause malfunction.

Read Before Installation

Items to Be Checked

- (1). Verify the type of refrigerant used by the unit to be serviced. Refrigerant Type: R32
- (2). Check the symptom exhibited by the unit to be serviced. Look in this service handbook for symptoms relating to the refrigerant cycle.
- (3). Be sure to carefully read the safety precautions at the beginning of this document.
- (4). If there is a gas leak or if the remaining refrigerant is exposed to an open flame, a noxious gas hydrofluoric acid may form. Keep workplace well ventilated.

CAUTION

- Install new pipes immediately after removing old ones to keep moisture out of the refrigerant circuit.
- Chloride in some types of refrigerants such as R22 will cause the refrigerating machine oil to deteriorate.

Necessary Tools and Materials

Prepare the following tools and materials necessary for installing and servicing the unit. Necessary tools for use with R32 (Adaptability of tools that are for use with R22 and R407C).

1. To be used exclusively with $\,$ R32 (Not to be used if used with $\,$ R22 $\,$ or $\,$ R407C)

Tools/Materials	Use	Notes
Gauge Manifold	Evacuating,refrigerant charging	5.09MPa on the High-pressure side.
Charging Hose	Evacuating, refrigerant charging	Hose diameter larger than the concentional ones.
Refrigerant Recovery Equipment	Refrigerant recovery	
Refrigerant Cylinder	Refrigerant charging	Write down the refrigerant type. Pink in color at the top of the cylinder.
Refrigerant Cylinder Charging Port	Refrigerant charging	Hose diameter larger than the conventional ones.
Flare Nut	Connecting the unit to piping	Use Type-2 Flare nuts.

2. Tools and materials that may be used with R32 with some restrictions

Tools/Materials	Use	Notes
Gas leak detector	Detection of gas leaks	The ones for HFC type refrigerant may be used.
Vacuum Pump	Vacuum drying	May be used if a reverse flow check adaptor is attached.
Flare Tool	Flare machining of piping	Chages have been made in the flare machining dimension. Refer to the next page.
Refrigerant Recovery Equipment	Recovery of refrigerant	May be used if designed for use with R32.

3. Tools and materials that are used with R22 or R407C that can also be used with R32

Tools/Materials	Use	Notes
Vacuum Pump with a Check Valve	Vacuum drying	
Bender	Bending pipes	
Torque Wrench	Tightening flare nuts	Only Φ 12.70 (1/2") and Φ 15.88(5/8") have a larger flare machining dimension.
Pipe Cutter	Cutting pipes	
Welder and Nitrogen Cylinder	Welding pipes	
Refrigerant Charging Meter	Refrigerant charging	
Vacuum Gauze	Checking vacuum degree	

4. Tool and materials that must not used with R32

Tools/Materials	Use	Notes
Charging Cylinder	Refrigerant Charging	Must not be used with R32 -type units.

Tools for R32 must be handled with special care, and keep moisture and dust from entering the cycle.

Read Before Installation

Piping Materials

Types of Copper Pipes (Reference)

Maximum Operation Pressure	Applicable Refrigerants		
3.4MPa	R22, R407C		
4.3 MPa	R32		

• Use pipes that meet the local standards.

Piping Materials/Radial Thickness

Use pipes made of phosphorus deoxidized copper.

Since the operation pressure of the units that use R32 is higher than that of the units for use with R22, use pipes with at least the radial thickness specified in the chart below. (Pipes with a radial thickness of 0.7mm or less may not be used.)

Size(mm)	Size(inch)	Radial Thickness(mm)	Туре
Ф 6.35	1/4"	0.8t	
Ф 9.52	3/8"	0.8t	Type-O pipes
Ф 12.7	1/2"	0.8t	, rype e pipee
Ф 15.88	5/8"	1.0t	
Ф 19.05	3/4"	1.0t	Type-1/2H or Hpipes

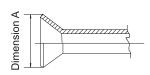
- Although it was possible to use type-O for pipes with a size of up to Φ 19.05(3/4") with conventional refrigerants, use type-1/2H pipes for units that use R32 .(Type-O pipes may be used if the pipe size is Φ19.05 and the radial thickness is 1.2t.)
- The table shows the standards in Japan. Using this table as a reference, choose pipes that meet the local standards.

Flare Machining (type-O and OL only)

The flare machining dimensions for units that use R32 is larger than those for units that use R22 in order to increase air tightness.

Flare Machining Dimension(mm)

External dimension of pipes		Dimension A		
	Size	R32	R22	
Ф6.35	1/4"	9.1	9.0	
Ф9.52	3/8"	13.2	13.0	
Ф12.7	1/2"	16.6	16.2	
Ф15.88	5/8"	19.7	19.4	
Ф19.05	3/4"	24.0	23.3	



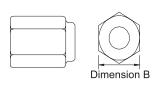
If a clutch type flare tool is used to machine flares on units that use R32, make the protruding part of the pipe between 1.0 and 1.5mm. Copper pipe gauge for adjusting the length of pipe protrusion is useful.

Flare Nut

Type-2 flare nuts instead of type-1 nuts are used to increase the strength. The size of some of the flare nuts have also been changed.

Flare nut dimension(mm)

External dimension of pipes	Size	Dimension B			
External difficultion of pipes	Size	R32 (Type2)	R22(Type1)		
Ф6.35	1/4"	17.0	17.0		
Ф9.52	3/8"	22.0	22.0		
Ф12.7	1/2"	26.0	24.0		
Ф15.88	5/8"	29.0	27.0		
Ф19.05	3/4"	36.0	36.0		



The table shows the standards in Japan. Using this table as a reference, choose pipes that meet the local standards.

Read Before Installation

Air Tightness Test

No changes from the conventional method. Note that a refrigerant leakage detector for R22 or R410A cannot detect R32 leakage.



R22 or R407C leakage detector

Items to be strictly observed:

- 1.Pressurize the equipment with nitrogen up to the design pressure and then judge the equipment's air tightness, taking temperature variations into account.
- 2. When investigating leakage locations using a refrigerant, be sure to use R32.
- 3. Ensure that R32 is in a liquid state when charging.

Reasons:

- 1. Use of oxygen as the pressurized gas may cause an explosion.
- 2. Charging with R32 gas will lead the composition of the remaining refrigerant in the cylinder to change and then this refrigerant can not be used.

Vacuuming

1. Vacuum pump with check valve

A vacuum pump with a check valve is required to prevent the vacuum pump oil from flowing back into the refrigerant circuit when the vacuum pump power is turned off (power failure). It is also possible to attach a check valve to the actual vacuum pump afterwards.

2.Standard degree of vacuum for the vacuum pump

Use a pump which reaches 65Pa or below after 5 minutes of operation.

In addition, be sure to use a vacuum pump that has been properly maintained and oiled using the specified oil. If the vacuum pump is not properly maintained, the degree of vacuum may be too low.

3. Required accuracy of the vacuum gauge

Use a vacuum gauge that can measure up to 650Pa. Do not use a general gauge manifold since it cannot measure a vacuum of 650Pa.

4.Evacuating time

Evacuate the equipment for 1 hour after 650Pa has been reached.

After envacuating, leave the equipment for 1 hour and make sure the that vacuum is not lost.

5. Operating procedure when the vacuum pump is stopped

In order to prevent a backflow of the vacuum pump oil, open the relief valve on the vacuum pump side or loosen the charge hose to drawn in air before stopping operation. The same operating procedure should be used when using a vacuum pump with a check valve.

Charging Refrigerant

R32 must be in a liquid state when charging.

Reasons:

R32 is a HFC refrigerant (boiling point = -52° C) and can roughly be handled in the same way as R410A; however, be sure to fill the refrigerant from the liquid side, for doing so from the gas side will somewhat change the composition of the refrigerant in the cylinder.

Note

• In the case of a cylinder with a syphon, liquid R32 is charged without turning the cylinder up side down. Check the type of cylinder before charging.

Remedies to be taken in case of a refrigerant leak

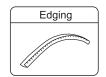
When refrigerant leaks, additional refrigerant may be charged. (Add the refrigerant from the liquid side)

Characteristics of the Conventional and the New Refrigerants

- Because R32 is a simulated azeotropic refrigerant, it can be handled in almost the same mammer as a single refrigerant such as R22. Howerver, if the refrigerant is removed in the vapor phase, the composition of the refrigerant in the cylinder will somewhat change.
- Remove the refrigerant in the liquid phase. Additional refrigerant may be added in case of a refrigerant leak.

1. Accessories

"Edging" for protection of electrical wires from an opening edge.



NO

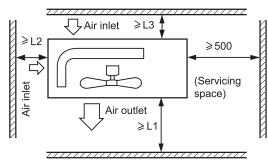
Wind direction

2. Selection of the place of installation

Select the place of installation satisfying the following conditions and, at the same time, obtain a consent from the client or user.

- Place where air circulates.
- Place free from heat radiation from other heat sources.
- Place where drain water may be discharged.
- Place where noise and hot air may not disturb the neighborhood.
- Place where there is not heavy snowfall in the winter time.
- Place where obstacles do not exist near the air inlet and air outlet .
- Place where the air outlet may not be exposed to a strong wind.
- Place surrounded at four sides are not suitable for installation. A 1m or more of overhead space is needed for the unit.
- Avoid mounting guide-louvers to the place where short-circuit is a possibility.
- When installing several units, secure sufficient suction space to avoid short circuiting.

Open space requirement around the unit



Distance			
L1	open	open	500 mm
L2	300 mm	300 mm	open
L3	150 mm	300 mm	150 mm

Note:

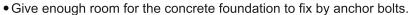
- (1) Fix the parts with screws.
- (2) Don't intake the strong wind directly to the outlet air-flow hole.
- (3) A one meter distance should be kept from the unit top.



(5) If the outdoor unit is installed in a place that is exposed to the wind, install the unit so that the outlet grid is NOT pointing in the direction of the wind.

3. Installation of outdoor unit

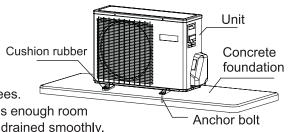
Fix the unit on the foundation in a proper way according to the condition of the installation place, referring to the following information.



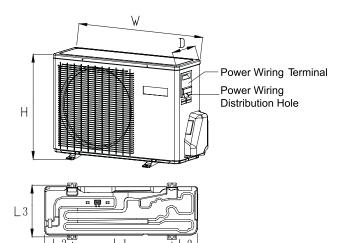
Place the concrete foundation deep enough.

• Install the unit so that the angle of inclination must be less than 3 degrees.

• Forbidden to place the unit on the ground directly. Please confirm there is enough room near the drainage hole on bottom plate, which will ensure the water be drained smoothly.



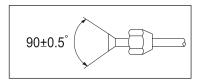
4.Installation dimension(Unit:mm)



Модель	W	D	Н	L1	L2	L3
HMK-HA28VA	696	256	432	415	140/140	280
HMZ-HX28VA/HMC-HA22VA HMC-HA28VA /HMC-HA38VA	660	245	463	380	140/140	260
HMZ-HX38VA HMK-HA38VA	700	245	544	440	120/140	269
HMZ-HX55VA HMZ-HX67VA HMK-HA55VA HMK-HA67VA HMC-HA55VA	800	275	553	510	130/160	313
HMC-HA67VA	890	340	705	630	130/130	374

1. Piping size

HMZ-HX28VA、HMK-HA28VA HMC-HA22VA、HMZ-HX38VA HMC-HA28VA、HMK-HA28VA HMC-HA38VA、HMK-HA38VA	Liquid pipe Gas pipe	Ф 6.35х0.8 мм Ф 9.52х0.8 мм
HMZ-HX55VA、HMK-HA67VA HMZ-HX67VA、HMC-HA55VA HMK-HA55VA	Liquid pipe	Ф 6.35х0.8 мм
	Gas pipe	Ф 12.7х0.8 мм
HMC-HA67VA	Liquid pipe	Ф 6.35х0.8 мм
	Gas pipe	Ф 15.88х0.8 мм



 Install the removed flare nuts to the pipes to be connected, then flare the pipes

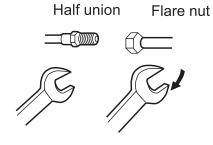
2. Connection of pipes

To bend a pipe, give the roundness as large as possible not to crush the pipe, and the bending radius should be 30 to 40 mm or longer.

Torque wrench

- Connecting the pipe of gas side first makes working easier.
- The connection pipe is specialized for R32.

Spanner



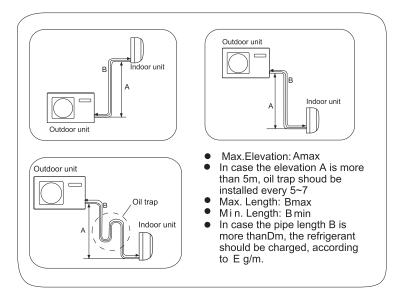
Forced fastening without careful centering may damage the threads and cause a leakage of gas.

Pipe Diameter(ǿ)	Fastening torque
Liquid side6.35mm(1/4")	18~20N.m
Liquid/Gas side9.52mm(3/8")	30~35N.m
Gas side 12.7mm(1/2")	35~45N.m
Gas side 15.88mm(5/8")	45~55N.m

Be careful that matters, such as wastes of sands, water, etc. shall not enter the pipe.

CAUTION

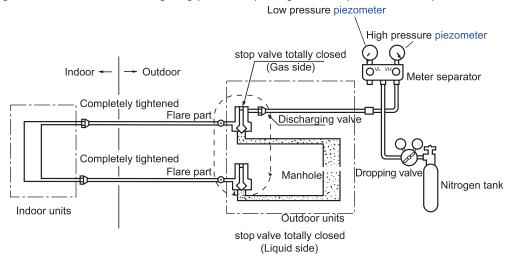
The standard pipe length is Cm. If it is over Dm, the function of the unit will be affected. If the pipe has to be lengthened, the refrigerant should be charged, according to Eg/m. But the charge of refrigerant must be conducted by professional air conditioner engineer. Before adding additional refrigerant, perform air purging from the refrigerant pipes and indoor unit using a vacuum pump, then charge additional refrigerant.



Outdoor Unit	Amax	Bmax	Bmin	С	D	Е
HMZ-HX28VA HMK-HA28VA HMC-HA22VA HMZ-HX38VA HMC-HA28VA HMK-HA28VA HMC-HA38VA HMK-HA38VA	10	15	3	5	7	20
HMZ-HX55VA HMK-HA67VA HMZ-HX67VA HMC-HA55VA HMK-HA55VA	10	20	3	5	7	20
HMC-HA67VA	15	25	3	5	7	20

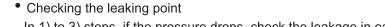
After finishing connection of refrigerant pipe, it shall perform air tightness test.

- The air tightness test adopts nitrogen tank to give pressure according to the pipe connection mode as the following figure shown.
- The gas and liquid valve are all in close state. In order to prevent the nitrogen entering the circulation system of outdoor unit, tighten the valve rod before giving pressure (both gas and liquid valve rods).

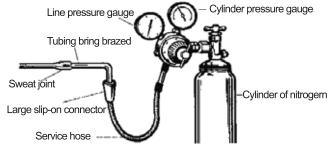


- 1) Pressurize for over 3 minutes at 0.3MPa (3.0 kg/cm²g).
- 2) Pressurize for over 3 minutes at 1.5MPa (15 kg/cm²g). A large leakage will be found.
- 3) Pressurize for about 24 hours at 3.0MPa (30 kg/cm²g). A small leakage will be found.
- Check if the pressure drops
 If the pressure does not drop, then pass.
 If the pressure drops, then please check the leaking point.

When pressurizing for 24 hours, a variation of 1°C in the ambient temperature will cause a variation of 0.01MPa(0.1kg/cm²g) in pressure. It shall be corrected during test.

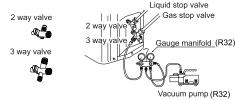


In 1) to 3) steps, if the pressure drops, check the leakage in each joint by listening, touching and using soap water etc. to identify the leaking point. After confirming the leaking point, welding it again or tighten the nut tightly again.

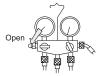


Piping vavuum method: to use vacuum pump

1. Detach the service port's cap of 3-way valve, the valve rod's cap for 2-way valve and 3-way valves, and connect the service port into the projection of charge hose (low) for gaugemanifold. Then connect the projection of charge hose (center) for gaugemanifold into vacuum pump.



2. Open the handle at low in gaugemanifold, and operate vacuum pump. If the scale-moves of gause (low) reach vacuum condition in a moment, check the step 1 again.



3. Vacuumize for over 15min. And check the level gauge which should read - 0.1MPa (-76 cm Hg) at low pressure side. After the completion of vacuumizing, close the handle 'Lo' in the vacuum pump. Check the condition of the scale and hold it for 1-2min. If the scale-moves back in spite of tightening, make flaring work again, then return to the beginning of the step 3.



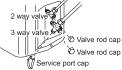
4. Open the valve rod for the 2-way valve to an angle of anticlockwise 90 degree. After 6 seconds, close the 2-way valve and make the inspection of gas leakge.



- 5. No gas leakage? In case of gas leakage, tighten parts of pipe connection. If leakage stops, then proceed the step 6. If it does not stop gas leakage, discharge whole refrigerants from the service port. After flaring work again and vacuumize, fill up prescribed refrigerant from the gas cylinder.
- 6. Detach the charge hose from the service port, open 2-way valve and 3-way. Turn the valve rod anticlockwise until hitting lightly.



7. To prevent the gas leakage, turn the service ports cap, the valve rodis cap for 2-way valve and 3-way's a little more than the point where the torque increases suddenly.



CAUTION:

If the refrigerant of the air conditioner leaks, it is necessary to make all the refrigerant out. Vacuumize first, then charge the liquid refrigerant into air conditioner according to the amount marked on the nameplate.

WARNING!

DANGER OF BODILY INJURY OR DEATH

- TURN OFF ELECTRIC POWER AT CIRCUIT BREAKER OR POWER SOURCE BEFORE MAKING ANY ELECTRIC CONNECTIONS.
- GROUND CONNECTIONS MUST BE COMPLETED BEFORE MAKING LINE VOLTAGE CONNECTIONS.

Precautions for Electrical wiring

- Electrical wiring work should be conducted only by authorized personnel.
- Do not connect more than three wires to the terminal block. Always use round type crimped terminal lugs with insulated grip on the ends of the wires.
- Use copper conductor only.

Selection of size of power supply and interconnecting wires (This table shows 20 m length wires with less than 2% voltage drop.)

item		Circuit breaker		Earth leakage breaker		
Model	Phase	Switch breaker (A)	Overcurrent protector rated capacity (A)	Switch breaker (A)	Leak current (mA)	
HMZ-HX28VA、HMK-HA28VA HMC-HA22VA、 HMZ-HX38VA HMC-HA28VA、 HMK-HA28VA HMC-HA38VA、 HMK-HA38VA	1	20	15	20	30	
HMZ-HX55VA、HMK-HA67VA、HMZ-HX67VA、 HMC-HA55VA、 HMK-HA55VA	1	20	15	20	30	
HMC-HA67VA	1	25	20	25	30	

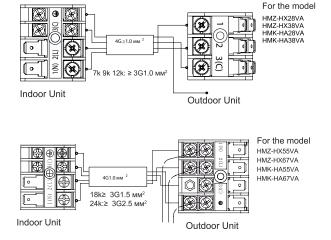
- If the supply cord is damaged, it must be replaced by the manufacturer or itsservice agent or a similar qualified person.
- If the fuse of control box is broken, please change it with the ceramic type of T 25A/250V.
- The wiring method should be in line with the local wiring standard.
- All the cables shall have got the European authentication certificate. During installation, when the connecting cables break off, it must be assured that the grouding wire is the last one to be broken off.
- The explosion-proof breaker of the air conditioner should be all-pole switch. The distance between its two contacts should not be no less than 3mm. Such means for disconnection must be incorporation in the fixed wiring.
- The distance between its two terminal blocks of indoor unit and outdoor unit should not be over 5m. If exceeded, the diameter of the wire should be enlarged according to the local wiring standard.
- A explosion-proof breaker must be installed.

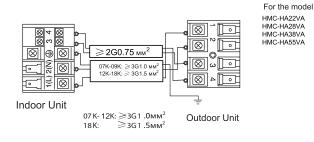
Wiring procedure

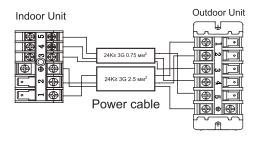
- 1) Remove set screws on the side before taking off the front panel toward the direction.
- 2) Connect wires to the terminal block correctly and fix the wires with a wire clamp equipped nearby the terminal block.
- 3) Route the wires in a proper way and penetrate the wires through the opening for electrical wiring on the side panel.

WARNING:

INTERCONNECTING WIRES MUST BE WIRED ACCORDING TO FIGURE **below**, INCORRECT WIRING MAY CAUSE EQUIPMENT DAMAGE.







For the model

Outdoor Unit Troubleshooting

CAUTION!

- THIS UNIT WILL BE STARTED INSTANTLY WITHOUT "ON" OPERATION WHEN ELECTRIC POWER IS SUPPLIED. BE SURE TO EXECUTE "OFF" OPERATION BEFORE ELECTRIC POWER IS DISCONNECTED FOR SERVICING.
- This unit has a function of automatic restart system after recovering power stoppage.

1. Before starting test run (for all Heat pump models)

Confirm whether the power source breaker (main switch) of the unit has been turned on for over 12 hrs to energize the crankcase heater in advance of operation.

2.Test run

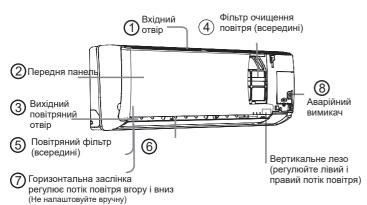
Run the unit continuously for about 30 minutes, and check the following.

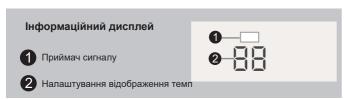
- Suction pressure at check joint of service valve for gas pipe.
- Discharge pressure at check joint on the compressor discharge pipe.
- Temperature difference between return air and supply air for indoor unit.

Flash times of LED on mainboard	Trouble description	Analyze and diagnose
1	Eeprom failure	Outdoor main board eeprom fail
2	IPM failure	IPM failure
4	Communication error between main board and spdu module SPDU Communication error	Communication fail over 4min
5	High pressure protection	System high pressure over 4.3 Mpa
8	Compressor discharging temperature protection	Compressor discharging temperature over 110 centigrade
9	Abnormal of DC motor	Jam of DC motor or motor failure
10	Abnormal of piping sensor	Piping sensor short-circuit or open-circuit
11	Suction temperature sensor failure	When the The wiring of compressor is wrong or the connection is poor
12	Abnormal of outdoor ambient sensor	Outdoor ambient sensor short-circuit or open-circuit
13	Abnormal of compressor discharge sensor	Compressor discharge sensor short-circuit or open-circuit
15	Communication error between indoor and outdoor unit	Communication fail over 4min
16	Lack of refrigerant	Check if there is leakage in the unit.
17	4-way valve reverse failure	Alarm and stop if detect Tm<=0 last for 1min after compressor has started for 10min in heating mode, confirm the failure if it appears 3 times in one hour.
18	Compressor jam(only for spdu)	Inner compressor is abnormal jamed
19	Module PWM select circuit error	Module PWM select wrong circuit
25	Compressor U-phase over-current	The current of compressor U-phase is too high
25	Compressor V-phase over-current	The current of compressor V-phase is too high
25	Compressor W-phase over-current	The current of compressor W-phase is too high

Компоненти та функції

Внутрішній блок

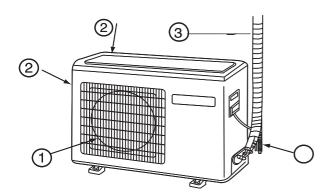






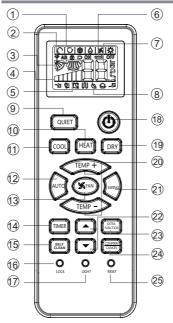
Фактичний вигляд передньої панелі може відрізнятися від зображення в посібнику, відповідно до придбаного товару

Зовнішній блок



- 1 вихідний повітряний
- (2) вихідний повітряний
- З'ЄДНУВАЛЬНІ ТРУБКИ ТА ЕЛЕКТРИЧНА ПРОВОДКА
- (4) дренажний шланг

Пульт дистанційного керування



1. Індикатор режимів роботи

Режим роботи		COOL		FAN	HEAT
Пульт ДК	0	*	۵	×	☼

- 2. Індикатор передачі сигналу
- 3. Індикатор режиму ЖАЛЮЗИ
- 4. FAN SPEED Вибір швидкості вентилятора:

LO – низька MED – середня HIGH – висока

AUTO - режим автоматичного вибору швидкості



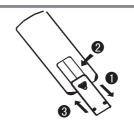
- 5. LOCK (БЛОК): Індикатор функції блокування пульта (БЛОК)
- 6. Індикатор функції таймера: TIMER ON/TIMER OFF
- 7. ТЕМР: Значення бажаної температури

8. Індикатор додаткових функцій

Operation mode	QUIET	SLEEP	Supplemented electrical heating	HEALTH	TURBO
Remote controller	7	Ø	W	Ø	A

- 9. QUIET: вмикає тихий і турбо-режими.
- 10. HEAT: використовується для ввімкнення режиму обігріву.
- 11. COOL: використовується для ввімкнення режиму охолодження.
- 12. AUTO: в автоматичному режимі роботи, перемикання режимів охолодження і обігрів відбувається автоматично відповідно до температури в приміщенні.
- 13. FAN SPEED: використовується для вибору швидкості вентилятора: низька, середня, висока, а також для вибору автоматичного режиму роботи вентилятора.
- . 14. TIMER: використовується для установки часу ввімкнення і вимкнення по таймеру.
- 15. SELF CLEAN: Самоочищення теплообмінника.
- 16. LOCK: використовується для блокування
- 17. LIGHT: Використовується для блокування
- 18. POWER ON/OFF: використовується для ввімкнення/вимкнення кондиціонера.
- 19.DRY: використовується для ввімкнення режиму осущення.
- 20. TEMP: використовується для установки значення бажаної температури.
- 21. SWING: використовується для змінення напрямку повітряного потоку.
- 22. HOUR: використовується для установки режиму сну
- 23. EXTRA FUNCTION: вымкненя
- додаткових функцій;
- Режим сну-
- Здоров'я -
- Режим розподілення повітряного потоку №1-
- Режим розподілення повітряного потоку №2-Режим турбо -
- Управління розподілення повітряного потоку-Зміна адреси блоку з А на В.
- 24. CANCEL/CONFIRM: встановлення та скасування таймер та інших додаткових функції. 25. RESET: скидання установок пульта ДК (коли пульт дистанційного керування працює невірно, використовуйте загострений предмет, шоб натиснути цю кнопку).

Установка елементів живлення



- Зніміть задню кришку пульта ДУ, злегка натиснувши на неї великим пальцем.
- Вставте батареї (розмір ААА, 1.5 V) у відповідності з вказаною полярністю (+), (-)
- Закрийте кришкою батарейний відсік
- Замініть батареї в пульті дистанційного керування, якщо символи на дисплеї пульта горять надто яскраво чи. навпаки, недостатньо яскраво
- При використанні безпровідного пульта дистанційного керування, відстань до кондиціонеру не повинна перевишувати 7 метрів.
- Якщо на дисплеї пульта не відображаються зміни налаштувань, вилучіть батарейки з батарейного відсіку і через 2 секунди встановіть їх назад.
- Якщо після установки батарейок на дисплеї не відображається інформація, натисніть кнопку СКИДАННЯ.

Режими роботи



Вибір режиму роботи

Пульт дистанційного керування



1. Для ввімкнення кондиціонеру натисніть кнопку ON/OFF, кондиціонер ввімкнеться в роботу згідно останньому вибраному режиму.

2. Виберіть режим роботи

Кнопка COOL: Режим охолодження Кнопка HEAT: Режим опалення Кнопка DRY: режим осушення

3. Виберіть налаштування температури

Натисніть ТЕМР+ / ТЕМР- кнопку

ТЕМР+ Кожне натискання на кнопку буде збільшувати значення температури на 1°C.

темр— Кожне натискання на кнопку буде зменшувати значення температури на 1°C.

Встановлену температуру кондиціонер підтримує автоматично.

4. Вибір швидкості вентилятора. Натисніть кнопку FAN. Пульт дистанційного керування:



При роботі кондиціонеру користувач сам обирає швидкість обертання вентилятора. Коли вентилятор встановлено в режимі AUTO, кондиціонер автоматично регулює швидкість вентилятора в залежності від встановленої температури.

Режим роботи	Пульт ДУ	Примітка
AUTO	()	В цьому режимі роботи кондиціонер автоматично вибирає режим роботи в залежності від температури в приміщенні. Коли режим вентилятора заданий режимом AUTO, то і швидкість вентилятора буде вибрана також автоматично.
COOL	*	Якщо кондиціонер «тільки холод», то на його дисплеї немазначків для позначення теплового режиму.
DRY	a	В режимі DRY, коли в кімнаті і так холодно, тоді температура підвищується на +2°C, а блок буде працювати змінюючи швидкість вентилятора від LOW до встановленої користувачем.
HEAT	Ċ.	В тепловому режимі НЕАТ тепле повітря почне видаватись блоком з затримкою по часу для попередження подачі в кімнату холодного повітря.
FAN	X	В режимі вентиляція блок не зможе працювати в режимах СООL чи НЕАТ, а також недоступний режим АUTO, так само, як і налаштування температури. Якщо ввімкнений режим AUTO для вентилятора, то швидкість визначається кімнатною температурою. Режим SLEEP також не буде працювати.

Аварійна експлуатація

Використовуйте цю операцію, лише якщо пульт дистанційного керування несправний або втрачений, і з функцією аварійного запуску, кондиціонер деякий час може працювати автоматично.

Коли натиснуто перемикач аварійного режиму, «Рі» ● звук лунає один раз, що означає початок цієї операції.

 Коли вимикач живлення вмикається вперше та розпочнеться аварійний режим, пристрій запустить автоматично наступні режими:

температура в кімнаті	Призначена температура		Швидкість вентилято- ра	Режим
Вище 24 °C	24 °C	Hi	AUTO	COOL
Нижче 24 °C	24 °C	Hi	AUTO	HEAT



 Неможливо змінити налаштування темп. і швидкість вентилятора. Також неможливо працювати в режимі таймера або осушення.

Тестова експлуатація:

Перемикач тестової роботи такий самий, як і аварійний вимикач.

● Використовуйте цей перемикач у тестовій роботі, коли кімнатна температура нижче 16°С, не використовуйте його в нормальній роботі.

Продовжуйте натискати кнопку тестування

•перемикання більше 5 секунд. Після того, як ви двічі почуєте звук «Рі», відпустіть палець із перемикача: операція охолодження почнеться зі швидкістю повітряного потоку «Ні».



 У цьому режимі роботи двигун вентилятора внутрішнього блоку працюватиме на високій швидкості.

Зміна напрямку повітряного потоку

Жалюзі вертикального спрямування
Поз.1
Поз.2
Поз.3
Поз.4
Поз.5

2.Натисніть жикж кнопку ще раз, вертикальна заслінка зупиниться над поточним положенням, функція гойдання буде скасована

3. Натисніть EXTRAIN кнопку, щоб вибрати Поз.2 і Поз.3.

 Регулювання потоку повітря вліво і вправо (вручну)
 Рухайте вертикальну лопатку за ручку на кондиціонері щоб відрегулювати напрямок ліворуч і праворуч

Вимкнення кондиціонера

Для вимкнення кондиціонера натисніть кнопку ВИКЛ. На панелі внутрішнього блоку погаснуть всі індикатори, а на пульті ДУ висвітиться тільки значення поточного часу.

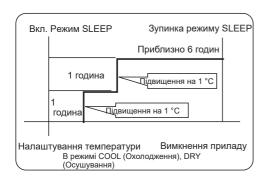
Режими роботи

Режим комфортного сну – «SLEEP»



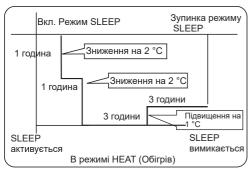
В режимі охолодження

Кожну годину роботи після запуску режиму комфортного сну встановлена температура підвищується на 1°С. Після підвищення на 2°С, показник температури підтримується на постійному рівні. Через 6 годин роботи режим комфортного сну буде вимкнуто.



В режимі обігріву

Кожну годину роботи після запуску режиму комфортного сну встановлена температура знижується на 2°С. Після зниження на 4°С, показник температури підтримується постійно протягом 3 годин. Через 3 години роботи температура збільшується на градус. Через 3 години роботи режим комфортного сну буде вимкнений.



УВАГА!

Режим комфортного сну доступний в режимі автоматичного підтримання температури « АВТО», в режимі охолодження «ХОЛОД», в режимі осушення «ОСУШ» і в режимі обігріву « ТЕПЛО». В режимі вентиляції режим комфортного сну недоступний.

TURBO/QUIET

(1) Режим TURBO

Якщо вам потрібно швидке нагрівання або охолодження, ви можете скористатися цією функцією. Натисніть кнопку (UNCTION), щоб увійти в додаткові параметри під час циклу відобразити до (SOMPRIM), увійдіть до функції

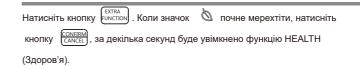
турбо. Після скасування функції знову введіть додаткові параметри та скасуйте функцію турбо.

(2) Тихий режим роботи

Ви можете використовувати цю функцію, коли потрібна тиша для відпочинку або читання.

Натисніть кнопку QUIET, пульт дистанційного керування покаже Д, а потім перейдіть до тихої функції. Натисніть ще раз кнопку QUIET, функція тихої роботи буде скасована.

Функція НЕАLТН (Здоров'я)



Функція HEALTH (Здоров'я)

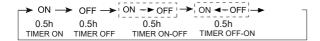
Генератор негативних іонів (аніонний генератор) кондиціонера виробляє велику кількість аніонів, які вбивають хвороботворні бактерії та пришвидшують осідання пилу в приміщенні, тобто сприяють очищенню повітря.

Режими роботи

Установка таймера ввімкнення/вимкнення

Використовуючи таймер ввімкнення/вимкнення, Ви можете автоматично вмикати кондиціонер вранці, коли Ви прокидаєтесь, або ввечері, коли повертаєтесь з роботи, і автоматично ввімкнути кондиціонер в заданий час. Таймер ввімкнення/вимкнення (ON/OFF)

Після ввімкнення кондиціонера за допомогою пульта ДК виберіть необхідний режим роботи кондиціонера. При цьому поточний режим роботи кондиціонера відобразиться на індикації пульта. Натисніть кнопку ТІМЕR для вибору необхідного режиму таймера. Кожне натискання на кнопку буде змінювати режими таймера в наступній послідовності:



Виберіть необхідний режим таймера. При цьому на пульті дистанційного керування буде відповідно мигати індикація ON чи OFF.

Установка таймера ввімкнення чи вимкнення

Виставлення часу ввімкнення чи вимкнення по таймеру. Для установки часу ввімкнення і вимкнення по таймеру використовуйте кнопки з значення часу буде збільшуватись на 0,5 години, якщо заданий час не перевищує 12 годин чи на 1 годину, якщо заданий час перевищує 12 годин. Якщо натиснути на кнопку і утримувати її, то значення часу буде змінюватись швидше, поки ця кнопка не буде відпущена.

3 кожним натисканням на кнопку ▼ значення часу буде зменшуватись на 0,5 години, якщо заданий час не перевищуе 12 годин чи на 1 годину, якщо заданий час перевищуе 12 годин. Якщо натиснути на кнопку ▼ і утримувати її, то значення часу буде змінюватись значно швидше, поки ця кнопка не буде відпущена. Всі поточні зміни значення часу будуть відображуватись на індикації пульта. Ви можете встановити будь-яке значення часу ввімкнення/вимкнення по таймеру в межах 24 годин.

Підтвердження установок таймера

Для підтвердження установок часу ввімкнення/вимкнення по таймеру використовуйте кнопку ТІМЕР. При цьому на пульті ДУ перестане мигати індикація ОN чи OFF і відобразиться час ввімкнення/вимкнення кондиціонера. На панелі індикації внутрішнього блоку загориться індикатор ТІМЕР.

Відміна установок таймера

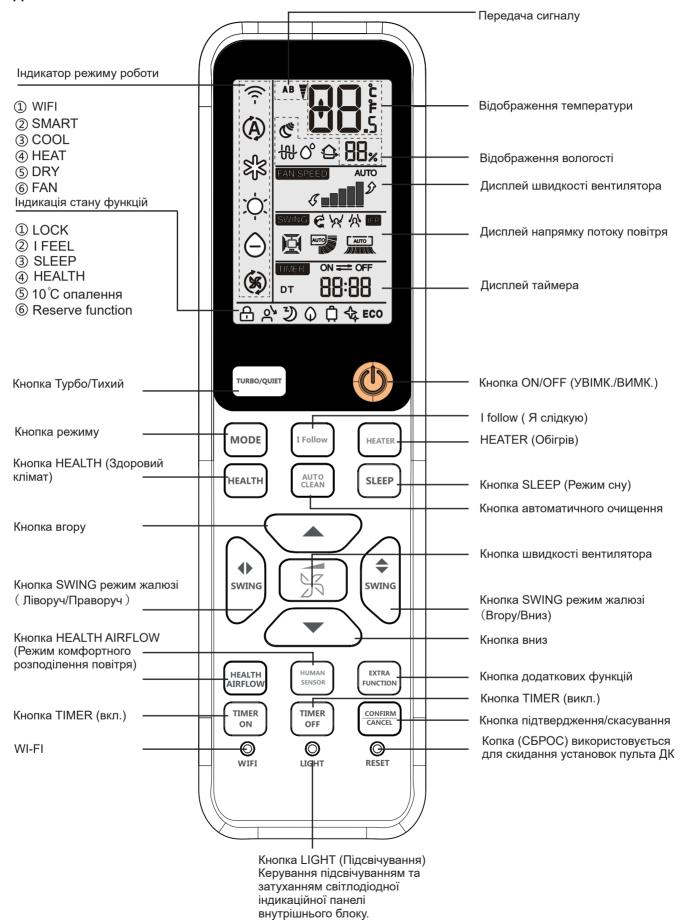
Для відміни установок таймера натисніть кнопку ТАЙМЕР декілька разів, поки на дисплеї пульта керування не зникне індикація режимів таймера (ON і OFF).

УВАГА!

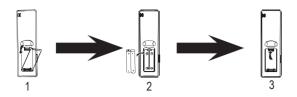
Після заміни батарейок чи збою електроживлення необхідно перевстановити параметри налаштувань таймера. Для того, щоб ввімкнути кондиціонер в заданий час і потім вимкнути його через встановлений відрізок часу, використовуйте функцію ТАЙМЕР ВКЛ/ВИКЛ.

Пульт дистанційного керування

Інформаційний дисплей



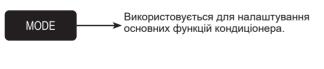
Заміна елементів живлення



- 1. Зніміть кришку відділення для елементів живлення
- 2. Вставте елементи живлення, як показано на рисунку. 2 елементи живлення R-03, кнопка скидання (циліндр); При вставленні елементів живлення дотримуйтесь полярності +/-;
- 3. Вставте елементи живлення і закрийте кришку.

Використовується для налаштування роботи УВІМК./ВИМК. ТURBO/QUIET Натисніть кнопку «TURBO/QUIET», ви легко перемикати функції «Turbo» та «Quiet». Після кожного натискання пульт дистанційного керування перемикатиметься, як показано нижче:

- Початковий стан: швидкість вентилятора до налаштування функції «TURBO» або «QUIET».
- 2. TURBO: Швидке охолодження або нагрівання, установіть цю функцію, відображається «У».
- 3. QUIET: відпочиньте, почитайте або хочете, щоб оточення було тихим, установіть цю функцію," ✓ відображається.



SMART → COOL → DRY → FAN → HEAT

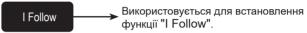
Функція	Дисплей	Опис
SMART	(A)	 У режимі «SMART» можна встановити температуру. У цьому режимі роботи режими «COOL» і «НЕАТ» буде автоматично вибрано відповідно до кімнати температури під час роботи кондиціонера.
COOL	£3	Натисніть кнопку COOL (Охолодження) на пульті дистанційного керування. Будь ласка, налаштуйте температуру нижче, ніж у приміщенні.
DRY	Θ	В режимі DRY, коли в кімнаті і так холодно, тоді температура підвищується на +2°С, а блок буде працювати змінюючи швидкість вентилятора від LOW до встановленої користувачем.

FAN	(*)	В режимі вентиляція блок не зможе працювати в режимах COOL чи HEAT, а також недоступний режим AUTO, так само, як і налаштування температури. Якщо ввімкнений режим AUTO для вентилятора, то швидкість визначається кімнатною температурою. Режим SLEEP також не буде працювати.
HEAT	Ċ.	В тепловому режимі НЕАТ тепле повітря почне видаватись блоком з затримкою по часу для попередження подачі в кімнату холодного повітря.

(Функція не доступна в деяких моделях)

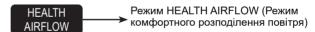
Створіть комфорт в кімнаті за допомогою лише однієї кнопки! Кондиціонер сам визначить температуру і вологість в приміщенні і виконає відповідні налаштування.

Щоб увімкнути інтелектуальний режим, натисніть кнопку SMART (Інтелектуальний режим) в режимі охолодження, обігріву або сушення повітря. В інтелектуальному режимі кондиціонер автоматично обирає режим охолодження, обігріву, осушування або вентилятора. Якщо під час роботи Інтелектуального режиму натиснути кнопку увімкнення режиму охолодження, обігріву, або осушування, ввімкнеться обраний режим роботи, а інтелектуальний режим буде вимкнено



Натисніть кнопку «I Follow», на пульті дистанційного керування відображається « $\stackrel{\wedge}{\circ}$ ».

- 1. Лише для охолодження, обігріву або інтелектуального режиму (інші режими не можуть бути реалізовані).
- 2. Розмістіть пульт дистанційного керування в межах прийнятного діапазону дії кондиціонера. Натисніть кнопку «"I Follow"», пульт дистанційного керування відображає піктограму «"I Follow"». Пульт дистанційного керування надсилає данні температури циркуляції на плату кожні 3 хвилини, і кондиціонер працює відповідно до цих даних.
- 3. Вийдіть із режиму «"I Follow"», коли вимкнеться живлення, або натисніть кнопку «"I Follow"» або перемкніть інші режими.
- 4. Деякі моделі не мають цієї функції. Якщо ви виберете функцію «I Follow» з пульта дистанційного керування, кондиціонер працюватиме відповідно до початкового стану та не виконує функцію «I Follow».



Після кожного натискання кнопки «HEALTH AIRFLOW» напрямок повітряного потоку на дисплеї дистанційного керування відображається наступним чином відповідно до різних режимів роботи:



- 1. Натисніть кнопку HEALTH AIRFLOW. На дисплеї відобразиться знак . Не допускайте направлення потужного потоку повітря безпосередньо на людину.
- 2. Натисніть кнопку HEALTH AIRFLOW повторно. На дисплеї відобразиться знак _____. Не допускайте направлення потужного потоку повітря безпосередньо на людину.

Вимкнення функції HEALTH AIRFLOW (Режим комфортного розподілення повітря)

Повторно натисніть кнопку HEALTH AIRFLOW. Впускний та випускний отвори кондиціонера відкриються, кондиціонер продовжить роботу в режимі, що був увімкнений до увімкнення функції очищення повітря. Після зупинки випускний отвір закриється автоматично. Примітка:

Не тягніть жалюзі випускного отвору рукою. Це призведе до порушення їх роботи. Якщо робота жалюзі порушена, вимкніть прилад і увімкніть приблизно через хвилину. Виконайте налаштування за допомогою пульта дистанційного керування. Пульт дистанційного керування може запам'ятовувати кожен режим роботи. При наступному увімкненні кнопкою ON/OFF попередньо обраний режим роботи увімкнеться автоматично.

Примітка:

- 1. Після увімкнення режиму комфортного розподілу повітря жалюзі вхідного і вихідного отворів перестають рухати<u>ся</u>.
- 2.При обігріві краще використовувати режим . 3.При охолодженні краще використовувати режим .
- 3.1 при охолодженні краще використовувати режим .
 4.Після тривалої роботи кондиціонера при підвищеній вологості повітря в режимі охолодження і осушування з вихідного отвору може
- капати вода.
 5.Оберіть відповідний напрямок для вентилятора відповідно до фактичних умов.

SLEEP (Режим сну) ∑

Перш ніж лягти спати, натисніть кнопку SLEEP (Режим сну). Прилад почне працювати в режимі SLEEP і забезпечить вам здоровий сон.

Режим роботи 1. В режимі СООL (Охолодження), DRY (Осушування) через 1 годину після активації режиму SLEEP (Режим сну), температура стане на 1 °C вище заданої температури. Ще через 1 годину температура підвищиться ще на 1 °C. Прилад працюватиме ще 6 годин, а потім вимкнеться. Температура підвищиться вище температури налаштування, щоб в кімнаті не було занадто холодно для сну



2. В режимі НЕАТ (Обігрів)

через 1 годину після активації режиму SLEEP (Режим сну) температура знизиться на 2 °С нижче заданого значення. Ще через 1 годину температура знизиться ще на 2 °С. Ще через 3 години температура підвищиться ще на 1 °С. Прилад працюватиме ще 3 години і вимкнеться. Температура знижується нижче температури налаштування, щоб в кімнаті не було занадто жарко для сну.



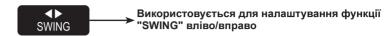
- 3. В режимі SMART (Інтелектуальний режим) Прилад працює у відповідному режимі сну, який адаптується до автоматично вибраного режиму роботи.
- 4. У режимі «FAN». Функції SLEEP відсутня.
- 5. Якщо режим тиші для сну встановлено на 8 годин, цей час неможливо змінити. При увімкненні функції ТІМЕК (Таймер) режим сну не налаштовується. Якщо увімкнути таймер після увімкнення режиму сну, режим сну буде вимкнено. Прилад буде перебувати в режимі увімкнення за часом, якщо увімкнути обидва режими одночасно, по закінченню часу роботи одного режиму прилад припинить роботу автоматично, а другий режим буде скасовано.



Використовується для встановлення підвищення температури, часу тощо. Щоразу натискайте кнопку, налаштування температури збільшуються на 1°C.

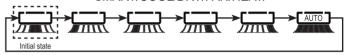


Використовується для встановлення зниження часу тощо. Щоразу натискайте кнопку, темп налаштування знижується 1°С .



Після кожного натискання кнопки « » пульт дистанційного керування відображає наступне:

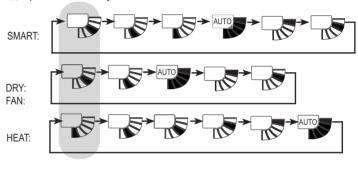
SMART/COOL/DRY/FAN/HEAT:





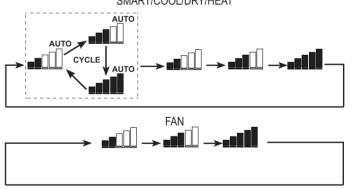
Після кожного натискання кнопки «

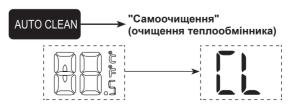
» напрямок повітряного потоку на пульті дистанційного керування залежно від режиму роботи відображається наступним чином:





При натисканні цієї кнопки швидкість вентилятора змінюється наступним чином: SMART/COOL/DRY/HEAT





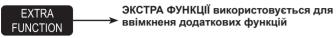
Натисніть на кнопку AUTO CLEAN, щоб активувати функцію на передній панелі блоку та пульті управліня з'явится значок «CL», дія продовжиться протягом 20-30 хвилин, внутрішній блок двічі просигналить та автоматично вийде з режиму самоочищення і блок повернеться в початковий режим:

Повторне натискання кнопки AUTO CLEAN не вимкне цю функцію. Для виходу з режиму натисніть кнопку вимкнення живлення або перейдіть в інші режими.

Ця функція недоступна в режимі Auto, ефективна в режимі Cool/Dry/Fan/Timer/Sleep

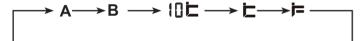
Примітка:

- 1. При ввімкненні функції самоочищення, обсяг повітря з внутрішнього блоку зменьшиться або припиниться, може дути холодним повітрям.
- 2. При самоочищенні відбувається зміни температури та корпус блока має теплове розширення і стиснення з характерним звуком, це нормальне фізичне явище.
- 3. Тривалість индикації значка "CL" на пульті ДУ та панелі блока можуть відрізнятися.
- 4. Найкращі умови для очищення теплообмінника: температура в приміщінні 15 С~ 27 С, вологість 35% ~ 60%; зовнішня температура 30С ~ 40 С (режим охолодження), зовнішня температура <10 С (режим опалення).
- 5. Якщо повітря занадто сухе (вологість <20%), то через відсутність вологи не відбувається обмерзання; якщо вологість повітря занадто висока (вологість> 70%), більша кількість конденсату змиває лід водой і обмерзання так само не відбувається.



Натисніть кнопку «EXTRA FUNCTION», увійдіть у функцію «EXTRA». Натискаючи цю кнопку кожного разу, послідоавність змінюється таким чином:

Відображення на пульті дистанційного керування наступним чином:



Коли будь-який із наведених вище символів блимає, натисніть «ПІДТВЕРДИТИ/СКАСУВАТИ», для підтвердження вибраних вами функцій.

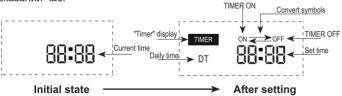
- 10С°обігрів
- режим розподілення повітряного потоку №1
- режим розподілення повітряного потоку №2
- зміна адреси блоку з А на В
- " °C/°F: переключення між відображенням градусів Цельсія та Фаренгейта.
- Деякі моделі не підтримують ці функції



Після запуску пристрою виберіть бажаний режим роботи, скористайтеся «TIMER ON».

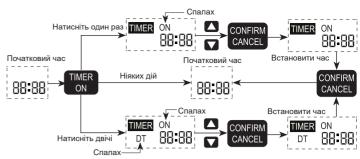
Кнопки «TIMER OFF» і «CONFIRM/CANCEL»

в поєднанні, щоб налаштувати кондиціонер на запуск або вимкнення у вказаний час.



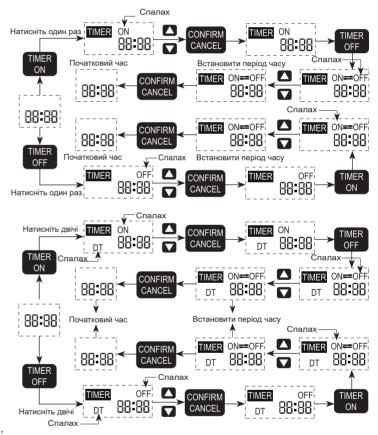
- 1. Натисніть кнопку «TIMER ON», «TIMER OFF», «ON», «OFF», «DT ON», «DT OFF» буде блимати.
- 2. Натисніть кнопку «▲» або «▲», щоб встановити час. Примітка. Час, який потрібно встановити, не може збігатися з поточним часом.
- 3. Підтвердьте налаштування таймера: після встановлення часу натисніть «CONFIRM/CANCEL» кнопку один раз. «ON», «OFF», «DT ON», «DT OFF» не блиматимуть.
- 4. Скасування налаштування таймера: натисніть кнопку «CONFIRM/CANCEL» ще раз, щоб скасувати налаштування таймера.
- 5. Після встановлення «TIMER ON/OFF». пульт автоматично визначає послідовний порядок ON/OFF, стрілка ("→> " / "←—") вказує на те, що виконане першим вказує на те що виконано другим.

TIMER ON: налаштовано на автоматичний запуск кондиціонера у встановлений час.



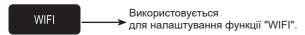
TIMER OFF.: автоматичне вимикання кондиціонера у встановлений час.





Підказки:

- 1. Після заміни батарей або збою живлення потрібно скинути налаштування часу.
- 2. Пульт має функції пам'яті. При використанні функції таймера наступного разу, якщо встановлений час такий самий, як і минулого разу, просто виберіть режим таймера і натисніть кнопку «CONFIRM/CANCEL» для підтвердження.
- 3. Відповідно до встановлених «TIMER ON» і «TIMER OFF», його можна спочатку увімкнути, а потім вимкнути, або спочатку вимкнути, а потім увімкнути.



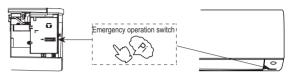
Щоб увійти, натисніть і утримуйте кнопку «WIFI» протягом 3 секунд у стані «ON/OFF».



Натисніть кнопку HEALTH на пульті відображається $\widehat{\Phi}$. Натисніть кнопку HEALTH знову, $\widehat{\Phi}$ зникне, операція зупиниться.



Аварійна експлуатація

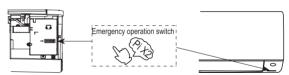


- Використовуйте цю операцію, лише якщо пульт дистанційного керування несправний або втрачений, і з функцією аварійного запуску, кондиціонер деякий час може працювати автоматично.
- Коли натиснуто перемикач аварійного режиму, «Рі» ● звук лунає один раз, що означає початок цієї операції.
- Коли вимикач живлення вмикається вперше та розпочнеться аварійний режим, пристрій запустить автоматично наступні режими:
- Неможливо змінити налаштування темп. і швидкість вентилятора. Також неможливо працювати в режимі таймера або осушення.

Температура в кімнаті	Призначена температура	Таймер режим	Швидкість вентилятора	Режим
Вище 21 ℃	це 21 °C 24 °C Ні		AUTO	COOL
Нижче 21 °C	24 °C	Hi	AUTO	HEAT

Тестова експлуатація:

Перемикач тестової роботи такий самий, як і аварійний вимикач. Використовуйте цей перемикач у тестовій роботі, коли кімнатна температура нижче 16°С, не використовуйте його в нормальній роботі.



Продовжуйте натискати кнопку тестування перемикання більше 5 секунд. Після того, як ви двічі почуєте звук «Рі», відпустіть палець із перемикача: операція охолодження почнеться зі швидкістю повітряного потоку «Ні».

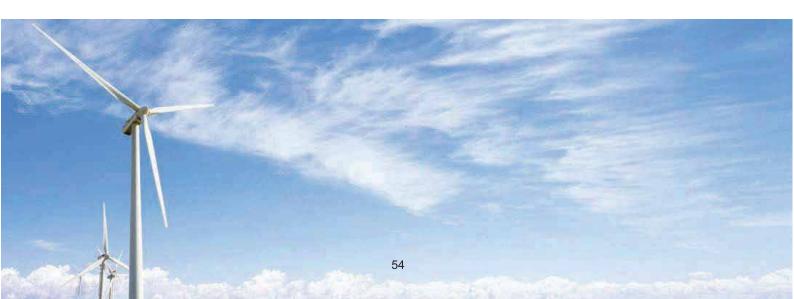
У цьому режимі роботи двигун вентилятора внутрішнього блоку працюватиме на високій швидкості.

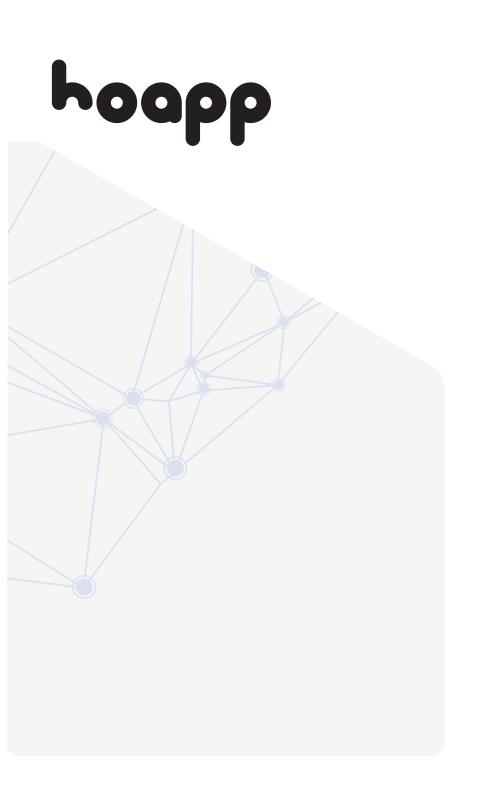
Technical Specifications/Технічні характеристики

	Бренд / Brand		hoapp					
	Серія / Series							
1	Внутрішній блок (модель) / Зовнішній блок (модель)	Model IDU / ODU		HSZ-HX28VAW HMZ-HX28VA	HSZ-HX38VAW HMZ-HX38VA	HSZ-HX55VAW HMZ-HX55VA	HSZ-HX67VAW HMZ-HX67VA	
2	Приведений рівень звукової потужності внутрішнього блоку (в реж. охо лодження)	Cooling Sound power level (indoor unit)	db(A)	56	59	60	64	
3	Приведений рівень звукової потужності зовнішнього блоку (в реж. охо лодження)	Cooling Sound power level (outdoor unit)	db(A)	62	65	65	68	
4	Приведений рівень звукової потужності внутрішнього блок у (в реж.обі грів)	Heating Sound power level (indoor unit)	db(A)	56	59	60	64	
5	Приведений рівень звукової потужності зовнішнього блоку (в реж.обігр ів)	Heating Sound power level (outdoor unit)	db(A)	62	65	65	68	
	Холодоагент / коеф. GWP	Refrigerant type / GWP		R32 / GWP	675			
6	Витікання охолоджуючої речовини впливає на зміну клімату. У випадку потрапляння в атмосферу охолоджуючої речовини з низьким потенціалом глобального потепління (GWP) їх впли глобальне потепління менший, ніж охолоджуючої речовини з вищим GWP. Цей прилад містить рідку охолоджуючу речовину з GWP, що дорівнює 675. Це означає, що якщо 1 кілограм дагрідкої охолоджуючої речовини потрапить в атмосферу, вплив на глобальне потепління протягом 100 років буде в 675 ра зів.вищий, ніж від 1 кілограма CO2. Забороняється самостійно втатися в схему циркуляції охолоджуючої речовини або ж розбирати продукт, завжди запрошуйте для цього спеціаліста.							
7	Клас енергоефективністі в режимі «Охолодження»	Energy efficiency class in cooling		A++	A++	A++	A++	
8	Розрахункове навантаження Pdesignc приладу для режиму "охолодже ння"	Seasonal Cooling (Pdesign)	kW	2.6	3.2	4.8	6.2	
9	Середній за сезон коефіцієнт енергоефективності СКЕЕ	SEER	W/W	6.1	6.1	6.3	6.7	
10	Річний обсяг енергоспоживання для потреб охолодження QCE за сезо н охолодження	Annual electricity consumption in cooling	kWh/a	149	184	267	324	
	Обсяг енергоспоживання, який базується на основі станда ртних даних випробувань. Фактичний обсяг енергосп оживання залежить від того, як використову ється прилад та де він розташований.							
11	Клас енергоефективністі в режимі «Обігрів»:	Energy efficiency class in heating (colder season)		A+	A+	A+	A+	
12	Розрахункове навантаження Pdesignh приладу в режимі "обігрів"	Design load in heating mode (Pdesign) (colder season)	kW	1.9	2.5	3.6	4.6	
13	Середній за сезон коефіцієнт корисної дії СККД	SCOP (colder season)	W/W	4.0	4.0	4.0	4.0	
14	Річний обсяг енергоспоживання для потреб обігріву QHE з а сезон обіг ріву	Annual electricity consumption in heating	kWh/a	665	875	1260	1610	
14	Обсяг енергоспоживання, який базується на основі станда ртних даних випробувань. Фактичний обсяг енергосп ожива ння залежить від того, як використовується прилад та де він розташований.			600	875	1260	1610	
15	Резервна теплова потужність (kW)	Residual thermal power	kW	0	0	0	0	
16	Бівалентна температура - номінальна потужність кондиціонеру не зможе бути досягнута, якщо зовнішня темпер атура буде нижчою за Tbiv – необхідно застосовувати додаткове джерело обігрву або центральне опалення («бі валентний»).			-15	-15	-15	-15	
17	Тол	Tol						
	Операційний ліміт - температура нижче якої безаварійна експлуатація в	виробу не гарантується.	C	-10	-10	-10	-10	

	Бренд / Brand			hoapp				
	Серія / Series							
1	Внутрішній блок (модель) / Зовнішній блок (модель)	Model IDU / ODU		HSK-HA28VAW HMK-HA28VA	HSK-HA38VAW HMK-HA38VA	HSK-HA55VAW HMK-HA55VA	HSK-HA67VAW HMK-HA67VA	
2	Приведений рівень звукової потужності внутрішнього блоку (в реж. охолоджен ня)	Cooling Sound pressure level (indoor unit)	db(A)	36	38	44	47	
3	Приведений рівень звукової потужності зовнішнього блоку (в реж. охолодженн я)	Cooling Sound pressure level (outdoor unit)	db(A)	52	52	54	57	
4	Приведений рівень звукової потужності внутрішнього блок у (в реж.обігрів)	Heating Sound pressure level (indoor unit)	db(A)	36	38	44	47	
5	Приведений рівень звукової потужності зовнішнього блоку (в реж.обігрів)	Heating Sound pressure level (outdoor unit)	db(A)	52	52	54	57	
	Холодоагент / коеф. GWP	Refrigerant type / GWP		R32 / GWP 675				
6	Витікання охолоджуючої речовини впливає на зміну клімату. У випадку потрапляння в атмосферу охолоджуючої речовини з низьким потенціалом глобального потепління (GWP) їх вплив в епління менший, ніж охолоджуючої речовини з вищим GWP. Цей прилад містить рідку охолоджуючу речовину з GWP, що дорівнює 675. Це означає, що якщо 1 кілограм даної рідкої охолод и потрапить в атмосферу, вплив на глобальне потепління протягом 100 років буде в 675 ра зів.вищий, ніж від 1 кілограма CO2. Забороняється самостійно втручатися в схему циркуляції охоовини або ж розбирати продукт, завжди запрошуйте для цього спеціаліста.							
7	Клас енергоефективністі в режимі «Охолодження»	Energy efficiency class in cooling		А	А	А	Α	
8	Розрахункове навантаження Pdesignc приладу для режиму "охолодження"	Seasonal Cooling (Pdesign)	kW	2.7	3.4	4.8	6.5	
9	Середній за сезон коефіцієнт енергоефективності СКЕЕ	EER	W/W	3.21	3.21	3.21	3.21	
10	Річний обсяг енергоспоживання для потреб охолодження QCE за сезон охолод ження	Annual electricity consumption in cooling	kWh/a	420	530	748	1013	
	Обсяг енергоспоживання, який базується на основі станда ртних даних випробувань. Фактичний обсяг енергоспоживанн я залежить від того, як використову ється прилад та де він розташований.							
11	Клас енергоефективністі в режимі «Обігрів»:	Energy efficiency class in heating (colder season)		А	А	А	А	
12	Розрахункове навантаження Pdesignh приладу в режимі "обігрів"	Design load in heating mode (Pdesign) (colder season)	kW	2.9	3.4	4.8	6.8	
13	Середній за сезон коефіцієнт корисної дії СККД	COP (colder season)	W/W	3.61	3.61	3.61	3.61	
14	Річний обсяг енергоспоживання для потреб обігріву QHE з а сезон обігріву Обсяг енергоспоживання, який базується на основі станда ртних даних випробу ня залежить від того, як використовується прилад та де він розташований.	Annual electricity consumption in heating /вань. Фактичний обсяг енергоспожива н	kWh/a	402	470	665	940	
15	Резервна теплова потужність (kW)	Residual thermal power	kW	0	0	0	0	
16	Бівалентна температура - номінальна потужність кондиціонеру не зможе бути , уде нижчою за Тbiv – необхідно застосовувати додаткове джерело обігрву або		Û	-7	-7	-7	-7	
47	Тол	Tol						
17	Операційний ліміт - температура нижче якої безаварійна експлуатація виробу н	е гарантується.	c	-10	-10	-10	-10	

	Бренд / Brand		hoapp					
	Серія / Series							
1	Внутрішній блок (модель) / Зовнішній блок (модель)	Model IDU / ODU		HSC-HA22VA HMC-HA22VA	HSC-HA28VA HMC-HA28VA	HSC-HA38VA HMC-HA38VA	HSC-HA55VA HMC-HA55VA	HSC-HA67VA HMC-HA67VA
2	Приведений рівень звукової потужності внутрішнього блоку (в реж. охо лодження)	Cooling Sound power level (indoor unit)	db(A)	37	37	39	44	48
3	Приведений рівень звукової потужності зовнішнього блоку (в реж. охо лодження)	Cooling Sound power level (outdoor unit)	db(A)	51	52	51	54	55
4	Приведений рівень звукової потужності внутрішнього блок у (в реж.обі грів)	Heating Sound power level (indoor unit)	db(A)	37	37	39	44	48
5	Приведений рівень звукової потужності зовнішнього блоку (в режобігр ів)	Heating Sound power level (outdoor unit)	db(A)	51	52	51	54	55
	Холодоагент / коеф. GWP	Refrigerant type / GWP		R32 / GWP	675			
6	Витікання охолоджуючої речовини впливає на зміну клімату. У випадку потрапляння в атмосферу охолоджуючої речовини з низьким потенціалом глобального потепління (GWP) їх впл глобальне потепління менший, ніж охолоджуючої речовини з вищим GWP. Цей прилад містить рідку охолоджуючу речовину з GWP, що дорівнює 675. Це означає, що якщо 1 кілограм д рідкої охолоджуючої речовини потрапить в атмосферу, вплив на глобальне потепління протягом 100 років буде в 675 ра зів.вищий, ніж від 1 кілограма CO2. Забороняється самостійно в атися в схему циркуляції охолоджуючої речовини або ж розбирати продукт, завжди запрошуйте для цього спеціаліста.							ограм даної
7	Клас енергоефективністі в режимі «Охолодження»	Energy efficiency class in cooling		D	D	D	D	А
8	Розрахункове навантаження Pdesignc приладу для режиму "охолодже ння"	Seasonal Cooling (Pdesign)	kW	2.05	2.5	3.2	4.8	6.8
9	Середній за сезон коефіцієнт енергоефективності СКЕЕ	EER	W/W	2.61	2.61	2.61	2.61	3.21
10	Річний обсяг енергоспоживання для потреб охолодження QCE за сезо н охолодження	Annual electricity consumption in cooling	kWh/a	392.5	479	612.5	920	1060
10	Обсяг енергоспоживання, який базується на основі станда ртних даних випробувань. Фактичний обсяг енергосп оживання залежить від того, як використову ється прилад та де він розташований.			332.3	473	612.5	920	1000
11	Клас енергоефективністі в режимі «Обігрів»:	Energy efficiency class in heating (colder season)		С	С	С	С	А
12	Розрахункове навантаження Pdesignh приладу в режимі "обігрів"	Design load in heating mode (Pdesign) (colder season)	kW	2.05	2.5	3.2	4.8	7.1
13	Середній за сезон коефіцієнт корисної дії СККД	COP (colder season)	W/W	3.22	3.21	3.21	3.21	3.61
	Річний обсяг енергоспоживання для потреб обігріву QHE з а сезон обіг ріву	Annual electricity consumption in heating	kWh/a					
14	Обсяг енергоспоживання, який базується на основі станда ртних даних випробувань. Фактичний обсяг енергосп ожива ння залежить від того, як використовується прилад та де він розташований.			317.5	389.5	497.5	747.5	982.5
15	Резервна теплова потужність (kW)	Residual thermal power	kW	0	0	0	0	0
16	Бівалентна температура – номінальна потужність кондиціонеру не змоз атура буде нижчою за Tbiv – необхідно застосовувати додаткове джер валентний»).		C	-7	-7	-7	-7	-7
17	Тол	Tol						
17	Операційний ліміт - температура нижче якої безаварійна експлуатація в	виробу не гарантується.	C	-10	-10	-10	-10	-10





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