

Indoor Unit Operation & Installation Manual

AWSI-DAV009-N11

No.0150510084

- Please read this manual carefully before using
- Keep this operation manual for future reference



Большая библиотека технической документации

<https://splitsystema48.ru/instrukcii-po-ekspluatacii-kondicionerov.html>

каталоги, инструкции, сервисные мануалы, схемы.

User Manual

Your air conditioner may be subject to any change owing to the improvement of Airwell products.

Flow Logic II series multiple air conditioning systems adopt the consistent running mode, by which, all indoor units can only be heating or refrigerating operation at the same time.

To protect the compressor, the air conditioning unit should be powered on for over 12 hours before using it.

All indoor units of the same refrigerating system should use the unified power switch to ensure that all indoor units are in the state of being powered on at the same time during the operation of air conditioner.

Product Features:

1. Low static pressure air conditioners for the indoor units of this series;
2. The built-in installation to save space;
3. Automatic display of fault detection;
4. Central control function (optional from our company);
5. The air conditioner is provided with the function of compensation for power supply. During operation, when the power supply fails emergently and resumes again, the air conditioner returns to the working condition before power failure, if provided with compensation function.
6. Now this indoor unit only has wired controller function, the indoor unit that has remote controller function need to set in factory especially.

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whole model	brief model
AWSI-DAV009-N11	DAV009

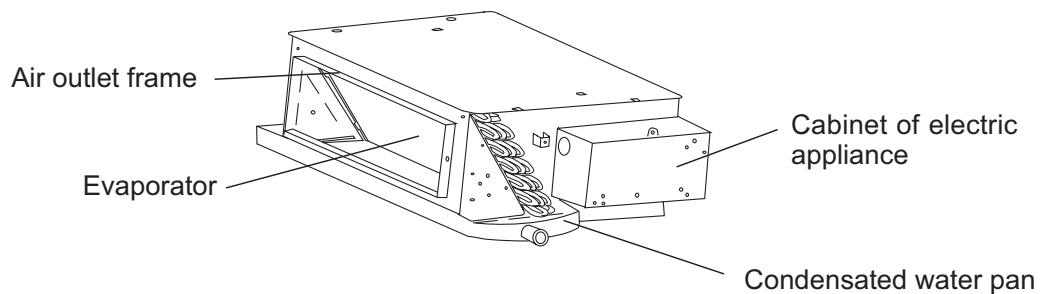
The brief model is used in this manual for above models.

Operating Range of Air Conditioner

cooling dry	indoor	max.	DB: 32°C	WB: 23°C
		min.	DB: 18°C	WB: 14°C
	outdoor	max.	DB: 43°C	WB: 26°C
		min.	DB: -5°C	
heating	indoor	max.	DB: 27°C	
		min.	DB: 15°C	
	outdoor	max.	DB: 21°C	WB: 15.5°C
		min.	DB: -15°C	

Parts and Functions

DAV009



Parts and Functions

Buttons of the wire controller

Fan speed switch
Change wind speed

Mode switch
Choose running mode

Health switch
Used to control oxygen function and negative ion

Swing switch
Open and close air flap

TEMP switch
Used for changing set temperature

Time switch
It is used to regulate setting time.

Clock, timing and address setting

Air change switch
It is used to open and close air change function. The mode is as follows:
No display-air change
(automatic)-air change
(RECOVERY)-air change
(NORMAL)

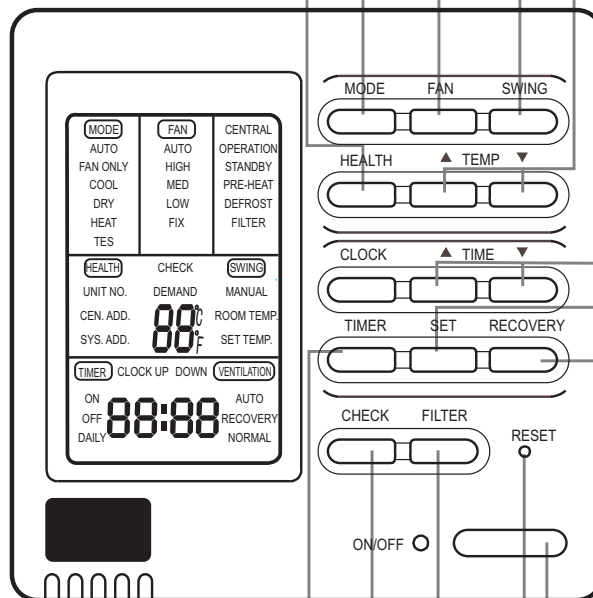
Timing switch
It is used for choosing timing running

Self-inspection switch
It is used for inspection service

Filter reset
After cleaning air inlet and filter, press this switch. The unit begins to run

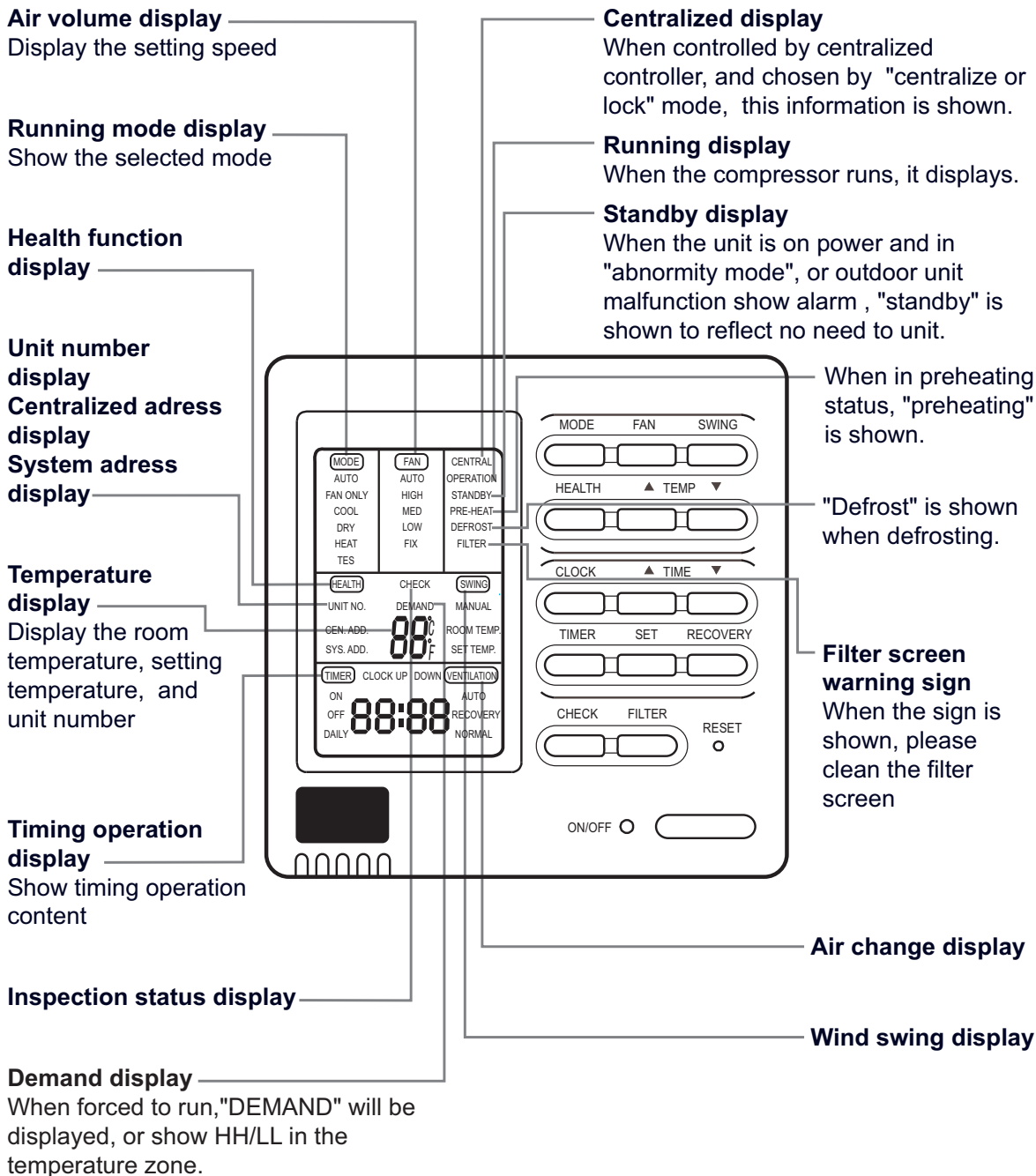
Reset key
When in abnormal state, push the reset key with a spike, which may return the unit to normal

ON/OFF switch
Do on and off function. The unit is on when pressing it; and is off when pressing it again.



Parts and Functions

Display of the wire controller

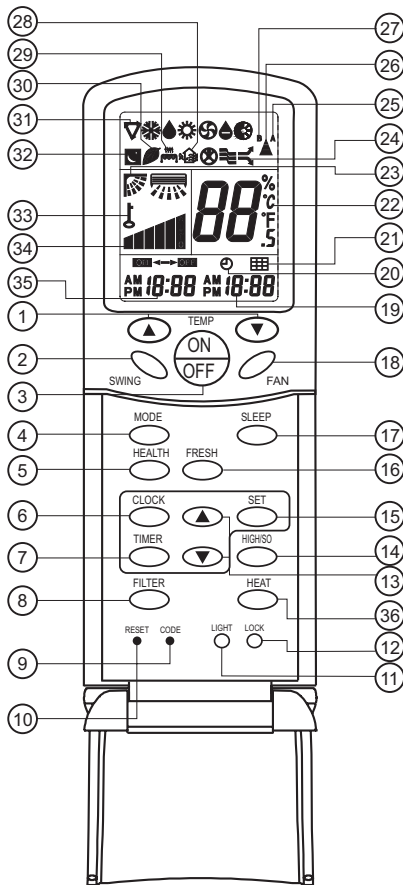


Remarks

- The models in the manual don't have health, filter reset and Air change function.

Parts and Functions

Remote controller



1.TEMP Setting Button

Used to set temperature.

The temperature ranges: 16°C~ 30°C.

In Up/Down function of filter, for controlling up and down filter.

2.SWING Button

If you press this button once, auto swing will be activated. If you press this button again, the louver will fix in the present position.

3.Power ON/OFF Button

Used for unit to start or stop.

After power on, the LCD of remote controller will display the previous operation state (except for TIMER,SLEEP and SWING state).

4.Operation MODE Button

Used to select operation mode.

Every time you press MODE button, operation mode changes according to following sequence:



5.HEALTH Button

Used to set health operation function.

6.CLOCK Button

Used to set correct time.

7.TIMER Button

Used to select TIMER mode:TIMER ON,TIMER OFF, TIMER ON-OFF.

(Note: if the time of TIMER ON is the same as TIMER OFF, TIMER ON-OFF cannot be set)

8. FILTER Button

Used to set up/down function of filter.

9.CODE Button

Used to select Code A or B, Normally at Code A. As you can't control the indoor unit, please change the Code to B.

10.RESET Button

Press this button by using a sharp article to resume the correct operation of the remote controller in case of need, for example, in case of malfunctions due to electromagnetic disturbance.

11.LIGHT Button

Used to light the control panel

12.LOCK Button

Used to lock operation button and LCD display contents. If you press this button, the other buttons come out of function and lock state display appears; if you press it again, lock state will be no more active and lock state display will disappear.

13.HOUR Adjustment Button

Used to set clock and timer setting

14.HIGH/SO Button

Used to select HIGH or SOFT operation.

15.SET Button

Used to confirm TIMER and CLOCK settings.

16.FRESH Button

Used to set fresh mode, the unit will draw in fresh air.

17.SLEEP Button

Used to set sleep mode. (The clock must be corrected before setting sleep function)

18.FAN Button

Used to select fan speed:LOW,MID,HIGH,AUTO.

19.TIME Display

20.TIMER Display

21.FILTER Display

When the filter need be cleaned, you can press the FILTER button for 3s, to up/down function.

22.TEMPERATURE Display

23.AUTO SWING Display

Parts and Functions

24.HIGN/SO Run Display

25.Code A of controller's state

Code A is used for the units in this manual.

26.SIGNAL SENDING Display

27.Code B of controller's state

28.Fresh Display

29.Auxiliary ELECTRICAL HEATING Display

30.HEALTH Display

Displays when healthy run function is set.

31.Operation MODE Display

AUTO RUN	COOL RUN	DRY RUN	HEAT RUN	FAN RUN
▽	☼	💧	☀	⚙

32.SLEEP State Display

33.LOCK State Display

34.FAN SPEED Display



35.TIMER ON Display

36.HEAT Button

Used to select auxiliary heater function.

Note:

1.Models in this manual have no functions

⑤ ⑧ ⑪ ⑭ ⑯ ⑰ ⑳ ㉔ ㉔ ㉔ ㉔ ㉔ ㉔ ㉔ ㉔ ㉔

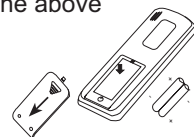
2.HIGH/SO button

This button is active in Cooling/Heating mode, the fan speed is in AUTO mode after pressing it and "high function" will be automatically cancelled after 15 minutes running.

Remote Controller Operation

- When in use, direct signal transmission head to the receiver placed on the indoor unit.
- The distance between the remote controller and the receiver should be max 7m and there should be no obstacle between them.
- Do not throw the remote controller to prevent it from being damaged.

- When operating the remote controller in an area where electronically controlled lights are installed or wireless handsets are used, please move closer to the indoor unit as the function of the remote controller might be affected by signals emitted by the above mentioned equipments.



Battery loading

Batteries are fitted as follows:

Remove the battery compartment lid

Slightly press and disengage the battery compartment lid marked with "▽" and then hold the remote controller by the upper section and then remove the battery compartment lid by pressing in the direction of the arrow as shown in the figure above.

Loading the battery

Ensure that batteries are correctly placed in the compartment as required for positive and negative terminals.

Replacing the battery compartment lid

The battery compartment lid is reinstalled in the reverse sequence.

Display review

Press the button to see if batteries are properly fitted. If no display appears, refit the batteries.

Confirming indicator

If no indication is displayed after press ON/OFF button, reload the batteries.

Caution: if the remote controller does not operate as designed after fitting new batteries of the same type, press the Reset button (marked ↓) with a pointed article.

Note:

It is recommended that the batteries should be removed from the compartment if the remote controller is not used for an extended period.

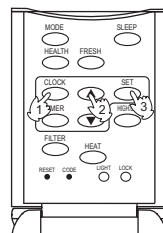
The remote controller is programmed for automatic test of operation mode after the batteries are replaced. When the test is conducted, all icons will appear on the screen and then disappear if the batteries are properly fitted. When throw away the waste batteries, please perform in accordance with the local regulation.

Clock Set

When the unit is started for the first time or after replacing batteries in remote controller, clock should be adjusted as follows:

- 1.Press CLOCK button, clock indication of " AM " or " PM " flashes.
- 2.Press " ▲ " or " ▼ " to set correct time. Each press the time will increase or decrease by 1 min. If the button is kept pressed, the time will increase or decrease quickly.
- 3.Press "SET" button to confirm the time setting. AM or PM stop flashing, while clock starts working.

Note:AM means morning and PM means afternoon.



Safety Considerations

- If the air conditioner is transferred to a new user, this manual shall be transferred to the user, together with the conditioner.
- Before installation, be sure to read Safety Considerations in this manual for proper installation.
- The safety considerations stated below is divided into “⚠ Warning” and “⚠ Attention”. The matters on severe accidents caused from wrong installation, which is likely to lead to death or serious injury, are listed in “⚠ Warning”. However, the matters listed in “⚠ Attention” are also likely cause the severe accidents. In general, both of them are the important items related to the security, which should be strictly abided by.
- After the installation, perform test run to make sure everything is in normal conditions, and then operate and maintain the air conditioner in accordance with the User Manual. The User Manual should be delivered to the user for proper keeping.

⚠ Warning

- Please ask the special maintenance station for installation and repair. Water leakage, electric shocks or fire accidents might be caused from improper installation if you conduct the installation by your own.
- The installation should be conducted properly according to this manual. Water leakage, electric shocks or fire accidents might be caused from improper installation.
Please make sure to install the air conditioner on the place where can bear the weight of the air conditioner.
- The air conditioner can't be installed on the grids such as the non-special metal burglar-proof net. The place with insufficient support strength might cause the dropdown of the machine, which may lead to personal injuries.
- The installation should be ensured against typhoons and earthquakes, etc. The installation uncomformable to the requirements will lead to accidents due to the turnover of the machine.
- Specific cables should be used for reliable connections of the wirings. Please fix the terminal connections reliably to avoid the outside force applied on the cables from being impressed on the cables. Improper connections and fixings might lead to such accidents as heating or fire accidents.
- Correct shapes of wirings should be kept while the embossed shape is not allowed. The wirings should be reliably connected to avoid the cover and the plate of the electrical cabinet lipping the wiring. Improper installation might cause such accidents as heating or fire accidents.
- While placing or reinstalling the air conditioner, except the specific refrigerant (R410A), don't let the air go into the refrigeration cycle system. The air in the refrigeration cycle system might lead to the cracking or personal injuries due to abnormal high pressure of the refrigeration cycle system.
- During installation, please use the accompanied spare parts or specific parts. If not, water leakage, electric shocks, fire accidents or refrigerant leakage might be caused.
- Don't drain the water from the drainpipe to the waterspout where may exist harmful gases such as sulfureted gas to avoid the harmful gases entering into the room.
- During installation, if refrigerant leakage occurs, ventilation measures should be taken, for the refrigerant gas might generate harmful gases upon contacting the flame.
- After installation, check if any refrigerant leakage exists. If the refrigerant gas leaks in the room, such things as air blowing heaters and stoves, etc. may generate harmful gases.
- Don't install the air conditioner at the places where the flammable gases may leak. In case the gas leakage occurs around the machine, such accidents as fire disasters may be caused.
- The drainpipe should be properly mounted according to this manual as to ensure the smooth drainage. In addition, heat preservation should be taken to avoid condensation. Improper drainpipe mounting might cause water leakage, which will get the articles at home wet.
- The refrigerant gas pipe and liquid pipe should be heat insulated to preserve heat. For inappropriate heat insulation, the water caused from the condensation will drop to get the article at home wet.

⚠ Attention

















- The air conditioner should be effectively grounded. Electric shocks may occur if the air conditioner is ungrounded or inappropriately grounded. The wire for earthing shouldn't be connected to the connections on the gas pipe, water pipe, lightning rod or telephone.
- The breaker for electricity leakage should be mounted. If not, accidents such as electric shocks may happen.
- The installed air conditioner should be checked for electricity leakage by being powered.
- After installation, all cassette concealed indoor units should be trial-tested. After the proper operation of the machine, other fitments can be made.
- If the ambient humidity bigger than 80%, when the water discharge hole be blocked or the filter becomes dirty, or airflow speed change, there maybe leads to condensing water drop down, and at the same time there maybe some drops of water spit out.

Safety Considerations



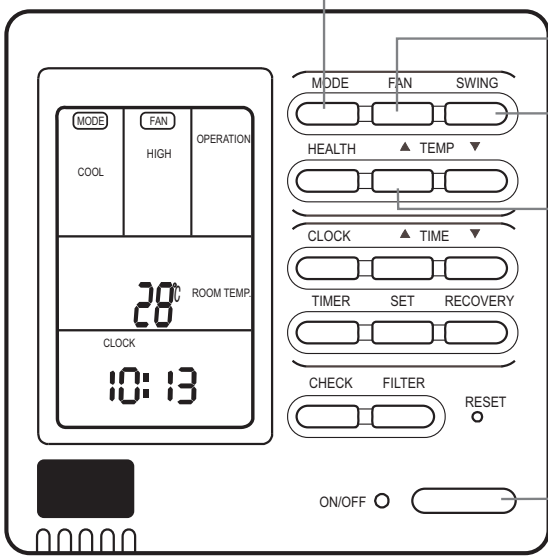
Attention

Notices during Operation

- It is not allowed to put any heating apparatus under the indoor units, for the heat may cause distortion of the units.
- Pay attention to the aeration condition to avoid anoxic symptom.  
- Flammable apparatus should not be placed in the place where the air conditioner wind could reach directly, or incomplete burning of the apparatus may be caused.  
- Check the mount table of the air conditioner for damage for a long period of operation. If placed on the damaged table, the unit may drop down causing damage. 
- Plants and animals should not be put to the place where wind of the air conditioner blows directly, otherwise damage to them may be caused. 
- It cannot be used for the preservation of food, living creature, precise instrument and artworks, etc, otherwise damage may occur. 
- Use the fuse with proper capacity. Metal wires and copper wires, etc., may cause fire or other faults. 
- Do not use water heater or like next to the indoor unit and the wired controller. Water/power leakage or short circuit may happen if the steam generating apparatus is working next to machine. 
- Defrosting during heating
To improve the heating effect, the outdoor unit will perform defrosting automatically when frost appears on the outdoor unit during heating (approximately 2-10 min). During defrosting, the fan of the indoor unit runs at a low speed or stops while that of the outdoor unit stops running.
- Power should be cut off when the air conditioner is left unused for a long period. Power will be consumed if the air conditioner is not powered off. The power switch of the outdoor unit switch should be powered on 12 hours in advance before operation to protect the unit after a long period of storage.
- 3-minute protection
To protect the unit, compressor can be actuated with at least 3-minute delay after stopping.
- Close the window to avoid outdoor air getting in. Curtains or window shutters can be put down to avoid the sunshine. 
- Do not touch the switch with the wet hand to avoid power shock. 
- Stop running and switch off the manual power switch when cleaning the unit. 
- During the operation of the control unit, don't switch off the manual power switch and the controller can be used. Please do not press the liquid crystal zone of controller to prevent damage. 
- Cleaning the unit with water may cause electric shock.  
- Do not put flammable spray close to the air conditioner. Don't inject flammable spray towards the air conditioner, which may cause fire. 
- Stopping fan rotation
The unit which stops operating will actuate the fan for a 2-8 min swing every 30-60 minutes for protecting the unit while other indoor unit are in the operating state.
- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
- Children should be supervised to ensure that they do not play with the appliance.

Operation instruction

ON/OFF operation



2 Press ON/OFF switch on wire controller directly

4 The wire controller displays the running state in the latest time (timing and swing state may not be displayed).

5

3 **1. Press "ON/OFF" switch.**
The air conditioner starts operating, and the light on the wired controller is on.

2. Choose operation mode.
Press "mode" switch to change to "AUTO"---"FAN ONLY"---"COOL"---"DRY"---"HEAT".

3. Press "TEMP" switch

6 Change set temperature: press TEMP ▲ or TEMP ▼ every time, [SET] will display, and set temperature will increase/reduce 1*

4. Press "FAN SPEED" switch
FAN ONLY Operation:
Press "FAN SPEED" switch to change to "HIGH"--"MED"--"LOW"--"HIGH"
In AUTO, COOL, DRY, HEAT Operation:
Press "FAN SPEED" switch to change to "AUTO"--"HIGH"--"MED"--"LOW"--"AUTO"

5. Press "SWING" switch on the wire controller to swing the wind screen.

6. Press "ON/OFF" switch, off.
The light on the wire controller is off.

Note

Several seconds after the operation of the wire controller, the setting of the unit will change.

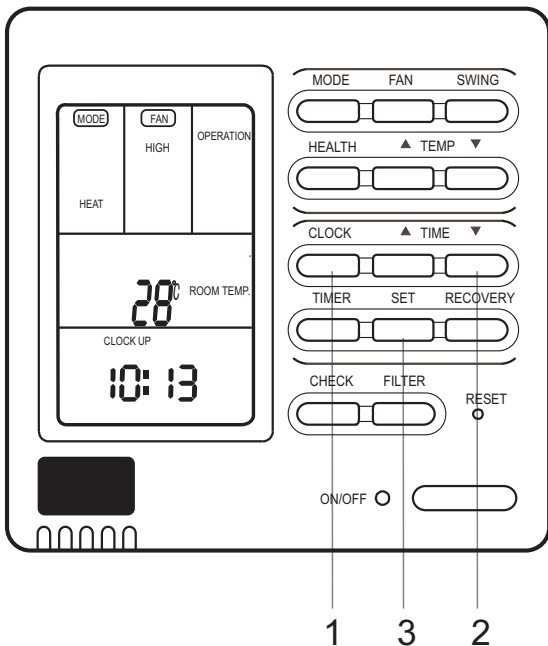
Remarks

- Avoid pressing "ON/OFF" switch frequently.
Do not press wire controller or switches by sharp objects.
- The temperature is on the basis of the setting value. The wind temperature may not reach the setting value because of the outer air conditioner and system protection.
- When the wired controller is power on, the screen fully displays it for two seconds. and clock and zone "8888"- "888"- "88"- "8" flicker for 30 seconds. All the switches are invalid at the time.

Operation instruction

Present time setting

- The timing is based on the real time. Thus, the real time should be regulated in advance.
- The clock regulation steps are as follows:



1. Press "CLOCK" switch

"CLOCK" flickers, and the time displayed is the real time.

2. Press TIME "▲" and TIME "▼" to regulate the time.

The time increases a minute each time you press TIME "▲" switch.

The time decreases a minute each time you press TIME "▼" switch.

3. Press "SET" switch. The setting is achieved.

Note

- If not in timing, the screen displays the real time.
- If in timing, the screen displays the timing time.
- If you want to know the real time, go to the first step.

Setting of power failure compensation function

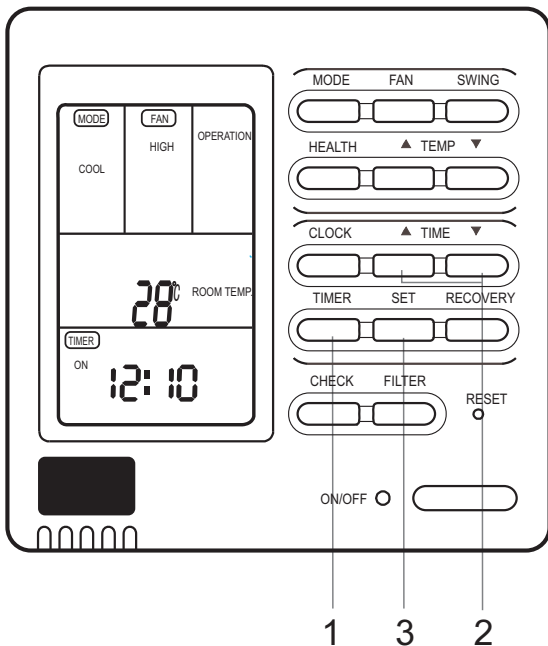
When SW1-6 on PCB of wire controller is OFF, it will be in power failure compensation. If the SW1-6 is ON, it has no compensation function.

When the power is on after blackout, the unit will return to the former state if compensation function is set. Otherwise, it will stop. When restarting the unit, press "ON/OFF" switch on wired controller.

Operation instruction

Timing setting

- OFF timing: when a set time has elapsed, the unit stops running.
- ON timing: when a set time has elapsed, the unit starts.



Press "ON/OFF" switch firstly, and set up operation mode. Please regulate the clock in advance before using the timing function.

1. Press "TIME" switch.

The display changes with the following sequence:



2. Set up "TIMER"

When timing ON or timing OFF flickers, press "▲" or "▼" to regulate the time. Press "▲" or "▼" set up ON/OFF time. The setting time increases ten minutes each time you press "▲" switch. The setting time decreases ten minutes each time you press "▼" switch. When setting timing ON and timing OFF at the same time, press "timing" switch to change the setting item.

3. Time setting is achieved.

Press "SET" switch.

Cancel timing

If you want to change the timing mode to normal operation, press "timing" until there is no timing display. When the timing is invalid, the mode is in normal operation.

parts of wired controller explanation :

1. The unit starts or stops at the setting time. Meanwhile, it displays the timing time.
2. "ON Timing, OFF timing and circulation" means that the unit is on and off at the setting time everyday.

Note

- The shorter setting time will be carried out firstly.
- If the ON timing and OFF timing are the same, the setting is invalid.
- Even in timing condition, you may start or close the unit through pressing "ON/OFF" switch.

Operation instruction

Query indoor malfunction history:

In the state of power on or power off, press [CHECK] button, enter the malfunction-querying mode of all indoor units in the group. Then [CHECK] and [UNIT NO.] will display, and the actual indoor numbers will be displayed in some sequence (unit number is in decimals). At the same time, in the time region, there will be the current malfunction and the latest time malfunction, the displaying format is [XX:YY], in which XX stands for the current malfunction, if normal, it will display "--"; YY stands for the latest time malfunction. The failure code of every unit will display for 3 seconds. After the failure codes of all indoor units in the whole group are displayed, the mode will quit automatically.

How to change the function switches?

No.	Type	State of switch	Function description
SW1-1	Select the master or the slave controller	ON	set as the slave controller
		OFF	set as the master controller
SW1-2	Select the controller mode	ON	standard controller
		OFF	air handler controller
SW1-3	Room temperature display option	ON	visible room temperature
		OFF	invisible room temperature
SW1-4	26° lock	ON	Unavailable 26° lock
		OFF	available 26° lock
SW1-5	Temperature sensor position option	ON	Sensor of the controller
		OFF	Sensor in the unit
SW1-6	Auto restart	ON	unavailable
SW1-7	Factory Setting	OFF	available
		ON	default setting
SW1-8	Factory Setting	OFF	default setting

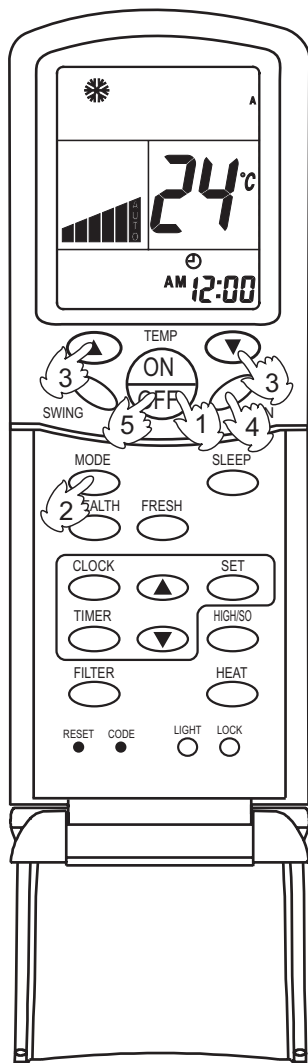
Note

1. Switches or jumper wire must be adjusted when the wire controller is powered off. If the wire controller is powered on, the above operations will be invalid.
2. Function difference between master wire controller and slave one:

Contrastive items	Master wire controller	Slave wire controller
Function	All of functions	Only with below functions: ON/OFF, MODE, FAN SPEED, SET TEMP., SWING

Operation instruction

AUTO, COOL, HEAT and DRY Operation



(1) Unit start

Press ON/OFF button, the unit starts.

Previous operation status appears on LCD (except for TIMER, SLEEP and SWING setting)

(2) Select operation mode

Press MODE button. Each press, the operation mode changes as follows:

Code A



Then select AUTO, COOL, DRY or HEAT as needed.

(3) Temperature setting

Press TEMP button.

▲ Every time the button is pressed, the setting temperature increases by 1°C; if the button is kept pressed, the setting temperature will increase quickly.

▼ Every time the button is pressed, the setting temperature decreases by 1°C, if the button is kept pressed, the setting temperature will decrease quickly.

Set the proper temperature.

(4) Adjust fan speed

Press FAN button. Each press, the fan speed changes as follows:

Code A



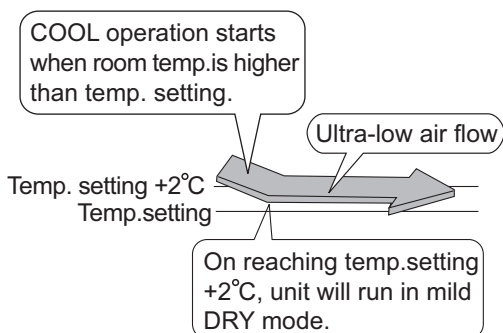
Air conditioner will run at the selected fan speed.

(5) Unit stop

Press ON/OFF button, the unit stops.

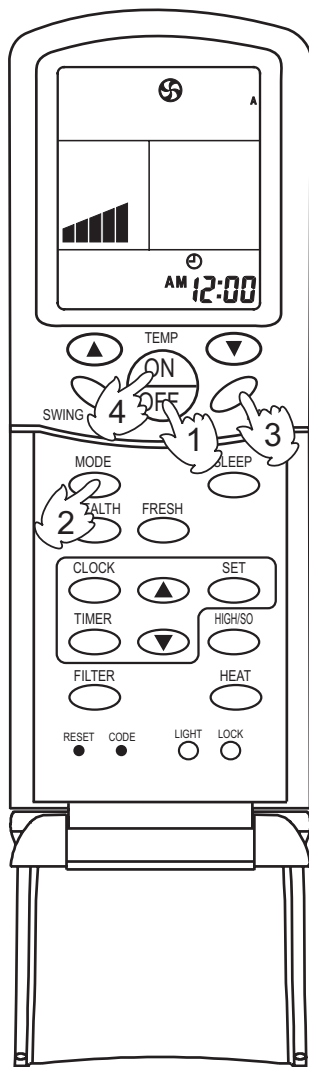
NOTE:

- In FAN mode, the temperature setting is not displayed on LCD.
- In DRY mode, when room temperature becomes 2°C higher than temperature setting, unit will run intermittently at LOW speed regardless of FAN setting. When room temperature is lower than temperature setting, unit will only run FAN operation.
- In HEAT mode, warm air will blow out after a short period of time due to cold-draft prevention function.



Operation instruction

Fan Operation (Only for Code A)



(1) Unit start

Press ON/OFF button to start your air conditioner. Previous operation status appears on LCD (except for TIMER, SLEEP, and SWING setting).

(2) Select operation mode

Press MODE button. Each press, the operation mode changes as follows:



Then select FAN mode.

(3) Adjust fan speed

Press FAN button. Each press, the fan speed changes as follows:



Air conditioner will run at the selected fan speed. When in AUTO mode, the unit will adjust fan speed according to room temperature automatically.

(4) Unit stop

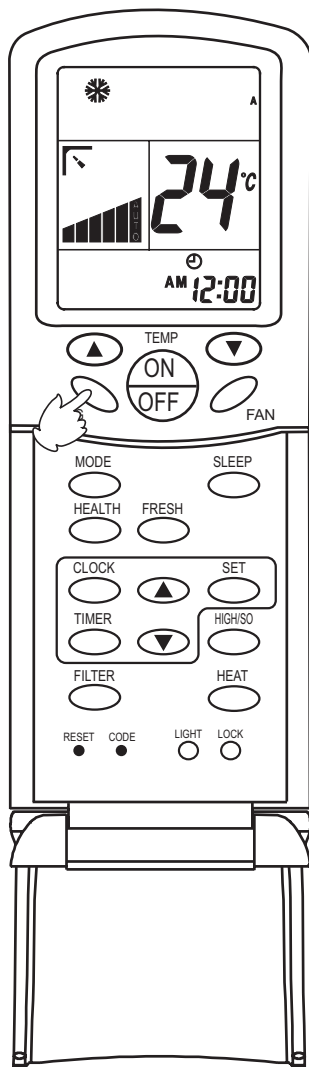
Press ON/OFF button to stop unit.

About FAN mode

When the air conditioner runs in FAN mode, it is not possible to select AUTO FAN or to set temperature.

Operation instruction

Adjusting Air Flow Directon



Adjusting air flow direction

Press SWING button.

Up and down airflow varies upwards and downwards.

Left and right airflow varies left and right sides.

When the automatic swing louver moves to the proper angle, press SWING button to fix the airflow direction.

After unit stops:

Displays on the LCD disappear.

All indicators on the indoor unit go out.

Swing louver automatically close the air outlet.

Warning

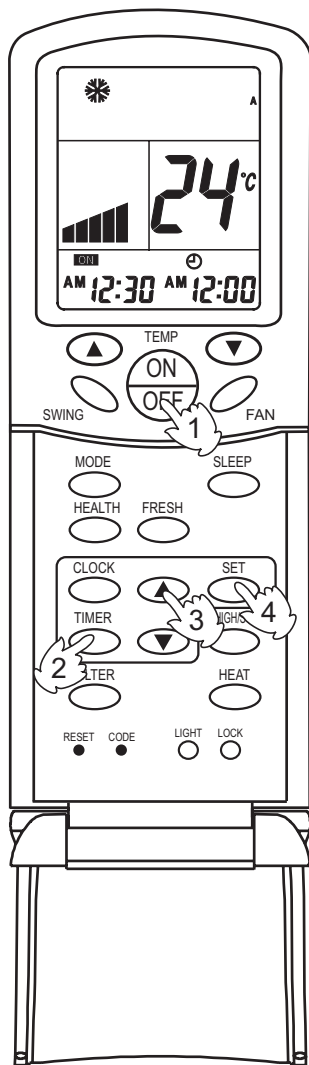
- Always use SWING button on the remote controller to adjust flaps. Adjusting them by hand may result in air conditioner's abnormally running. If the louver work abnormally, stop unit, restart and adjust the louver by remote controller.
- In COOL or DRY mode, do not leave the louver in downward position for a long time, as the water vapor close to the grille may condense and water may drop from the air conditioner.
- Please carefully set temperature when children, old or infirm people use the air conditioner.
- In case of great humidity, if the vertical flaps are completely turned towards left or right, the louver will drop water.

Hints:

- As in COOL mode air flows downwards, adjusting airflow horizontally will be much more helpful for a better air circulation
- As in HEAT mode air flows upwards, adjusting airflow downward will be much more helpful for a better air circulation.
- Be careful not to catch a cold when cold air blows downward directly.

Operation instruction

Timer ON/OFF Function



Set clock correctly before starting TIMER operation.

(1) Unit start

After unit start, select your desired operation mode (operation mode will be displayed on LCD).

(2) TIMER mode selection

Press TIMER button on the remote controller to change TIMER mode. Every time the button is pressed, display of TIMER mode changes as follows:



Then select TIMER mode as needed (TIMER ON or TIMER OFF). Now **ON** or **OFF** will flash.

(3) TIMER setting

Press time adjustment buttons \blacktriangle

\blacktriangle Every time the button is pressed, the time increases by 10 minutes.

\blacktriangledown Every time the button is pressed, the time decreases by 10 minutes.

If the button is kept pressed, the time will change quickly.

It can be adjusted within 24 hours at will.

(4) Confirm setting

After setting correct time, press SET button to confirm time. Now **ON** or **OFF** stop flashing.

Time displayed: unit starts or stops at X hour X min (TIMER ON or TIMER OFF)

(5) Cancel TIMER mode

Just press TIMER button several times until TIMER mode disappears.

Hints:

- After replacing batteries or if a power failure occurs, TIMER setting must be reset.
- Remote controller has memory function. When you use TIMER mode next time, just press SET button after mode selection if timer setting is the same as the previous one.

Maintenance

※Only when the air cleaner is switched off and disconnected to the power supply can it be cleaned, or electric shock and injury may appear.

Cleaning the air outlet port and the shell:

⚠ Attention

- Don't use gasoline, benzene, diluents, polishing powder or liquid insecticide to clean them.
- Do not clean them with hot water of above 50* to avoid fading or distorting.
- Wipe them with soft dry cloth.
- Water or neutral dry cleanser is recommended if the dust cannot be removed.
- The Wind Deflector can be dismantled to clean (as below).

Cleaning Wind Deflector:

- Do not wipe the wind deflector with water forcibly to avoid falling off.

Cleaning Air Cleaner:

⚠ Attention

- Don't rinse the air cleaner with hot water of above 50* to avoid fading and distorting.
- Don't put the air cleaner on the fire to dry to avoid catching fire.
- Wipe dust with water or dust collector.

(A) Wipe dust with dust collector.

(B) Clean it with soft brush in mild detergent if there is too much dust on it



Throw off the water and airing it in the cool dry condition.



Maintenance before and after Operating Season

Before Operating Season:


1. Please make the following checkup. If abnormal condition occurs, consult the after-service personnel.
 - There is no blockage in inlet port and outlet port of outdoor and indoor units.
 - The ground line and the wiring are in the proper state
2. After cleaning, the air cleaner must be mounted.
3. Switch on to the power.

After Operating Season:

1. In sunny days, blowing operation can be performed for half a day to make the inside of machine dry.
2. Electrical power should be cut down to economize electricity, or the machine will still consume power. Air cleaner and shell must be mounted after cleaning.

Fault Checkup

Please check the following when consigning repair service:

	Symptoms	Reasons
All these are not problems	<ul style="list-style-type: none"> Water flow sound 	Water flow sound can be heard when starting operation, during operation or immediately after stopping operation. When it starts to work for 2-3 minutes, the sound may become louder, which is the flowing sound of refrigerant or the draining sound of condensed water.
	<ul style="list-style-type: none"> Cracking sound 	During operation, the air conditioner may make the cracking sound, which is caused from the temperature changes or the slight dilation of heat exchanger.
	<ul style="list-style-type: none"> Terrible smell in outlet air 	The terrible smell, caused from walls, carpet, furniture, clothing, cigarette and cosmetics, attaches on the conditioner.
	<ul style="list-style-type: none"> Flashing operating indicator 	When switching it on again after power failure, turn on the manual power switch and the operating indicator flashes.
	<ul style="list-style-type: none"> Awaiting indication 	It displays the awaiting indication as it fails to perform refrigerating operation while other indoor units are in heating operation. When the operator set it to the refrigerating or heating mode and the operation is opposite to the setting, it displays the awaiting indication.
	<ul style="list-style-type: none"> Sound in shutdown indoor unit or white steam or cold air 	To prevent oil and refrigerant from blocking the shutdown indoor units, refrigerant flows in the short time and make the sounds of refrigerant flowing. Otherwise, when other indoor units performs heating operation, white steam may occur; during refrigerating operation, cold air may appear.
	<ul style="list-style-type: none"> Clicking sound when switching the air condition on 	When the conditioner is powered on, the sound is made due to the resetting of the expansion valve.
Please make another check.	<ul style="list-style-type: none"> Start or stop working automatically 	Check if it is in the state of Timer-ON and Timer-OFF.
	<ul style="list-style-type: none"> Failure to work 	<p>Check if there is a power failure. Check if the manual power switch is turned off. Check if the supply fuse and breaker are disconnected. Check if the protective unit is working. Check if refrigerating and heating functions are selected simultaneously with the awaiting indication on line control.</p>
	<ul style="list-style-type: none"> Bad cooling & heating effects 	<p>Check if air intake port and air outlet port of outdoor units are blocked. Check if the door and windows are open. Check if the filtering screen of air cleaner is blocked with sludge or dust. Check if the setting of wind quantity is at low wind. Check if the setting of operation is at the Fan Operation state. Check if the temperature setting is proper.</p>

Under the following circumstances, immediately stop the operation, disconnect the manual supply switch and contact the after-service personnel.

- When buttons are inflexible actuated;
- When fuse and breaker have been burnt over and over;
- When there are foreign objects and water in the refrigerator;
- When it cannot still be operated after removing the operation of protective unit;
- When other abnormal conditions occur.

Installation Procedures

This manual cannot completely illustrate all the properties of the products you bought. Please contact the local Airwell distribution center if you have any question or request.

Please use the standard tools according to the installation requirements.

The standard attached accessories of the units of this series refer to the packing list; prepare other accessories according to the requirements of the local installation point of our company.

1. Choose the suitable installation location. Indoor units should be installed in places with the environment of even circulation of cool and warm blows. The following places should be avoided.

※ Places with high salinity (beach), high sulfured gas (such as the thermal spring regions where copper tubes and soft soldering are easy to be eroded), much oil (including mechanical oil) and steam; places where organic substance solvent is frequently used; places where machines generate the high frequency electromagnetic wave (abnormal condition will appear in the control system); places where there is high humidity exists near the door or windows (dew is easily formed); and places where the special sprayer is frequently used.

Indoor Units

This production is belong to not accessible to the general public serial.

1. Indoor unit must be used inside of room, not outdoor side, or some places with high humidity, like laundry.

2. The distance between wind outlet port and the ground should not be more than 2.7m. The installed height of indoor unit should be between 2.5~2.7m.

3. Select appropriate places for installation where the outlet air can be spread to places all over the house and arrange proper locations for connecting pipes and lines as well as the drainpipe to the outdoor.

4. Ceiling construction must be hard enough to hold the weight of the unit.

5. Make sure that the connecting pipe, the drainpipe and connecting guide line can be put into walls to connect the outdoor units.

6. It is recommended to make the connecting pipe between the outdoor and indoor units and the drainpipe are as short as possible.

7. Please read the attached installation instruction of outdoor units for regulation of filling amount of refrigerant if necessary.

8. The connecting flange should be checked by users.

9. Those electrical appliances such as television, instruments, devices, artwork, piano, wireless equipment and other valuables should not be placed under the indoor unit as to prevent condensate from dropping into them and causing damage.

2. The following steps can be taken after selecting the installation place:

(1) Cut a hole on the wall and put the connecting pipe and connecting thread into the PVC, which is purchased at the local shop. With a slight downwards tilt towards the exterior, the gradient should be kept at least 1/100, as shown in Fig. 1.

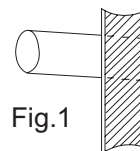


Fig.1

(2) Before cutting the hole, check if there are pipes or reinforcing steel bars at the rear of the hole. Making the hole in the place where wires or pipes should be avoided.

(3) Hang the unit on a fixed and flat roof. Unstable base will cause noise, vibration or leakage.

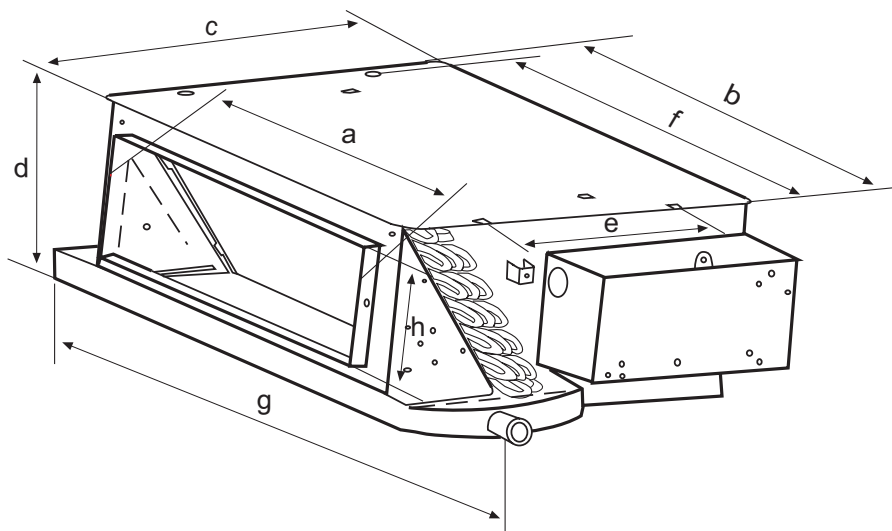
(4) Fix the unit support and change the connection pipes, connecting the shapes of wires and drainpipes so as to let them go through the wall hole.

3. Relationship between locations of the unit and the hoisting studs (unit: mm).

model	a	b	c	d	e	f	g	h	i
DAV009	418	538	483	220	255	508	610	136	—

Installation Procedures

DAV009



Cautions for Installation

1. The indoor units of this series are low static pressure air conditioners.
2. The indoor units should be installed with an inspection hole for maintenance.

Selection of fan rotated speed

The fan is mounted with red down-lead end and red down-lead end. The standard model was set when the machine was made in the factory. The red down-lead end with high speed can be used when the filter with high performance is used to make static pressure ascend. The connected style is shown in Fig.3.

Standard Style(given in Factory)				High Wind Speed Style			
Control Box	Yellow		Yellow	Fan Down-lead End	Yellow		Yellow
	Black		Orange		Black		Black
	Blue		Black		Blue		Blue
	Red		Blue		Red		Red

Static pressure range Unit: Pa

Standard static pressure	Maximal static pressure
0	20

Installation Procedures

- Concealed indoor units should be designed with air return plenum, as shown in Fig. 2 & Fig. 3.

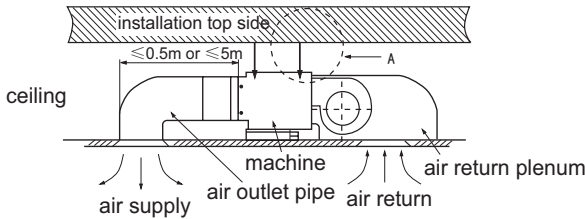


Fig.2

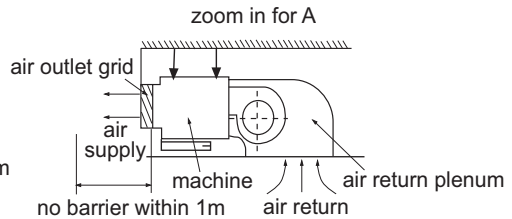


Fig.3

- The air blowing and return pipes should be equipped with an iron support fixed on the roof pre-coated plate. The joints at air pipes should be sealed with glue. It is recommended to keep the distance from the edge of air return plenum to the wall to be over 150mm.
- The gap between the air outlet port on the flue and the air outlet port on the air conditioner depends on the actual installation sizes of flues and the operating static pressure terminals. The schematic diagram of the long and short flues is shown in the following figure. When connecting the short flues, use the low static pressure terminal in white and keep the distance between the air outlet port of the flue and the air outlet port of the air conditioner to be less than 0.5m. When connecting the long flues, use the high static pressure terminal in red and keep the distance between the air outlet port of the flue and the air outlet port of the air conditioner to be within 5m.

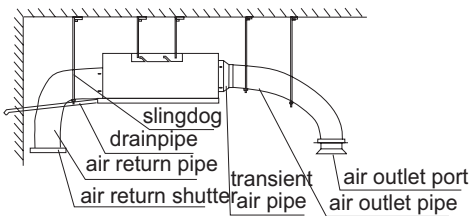


Fig.4

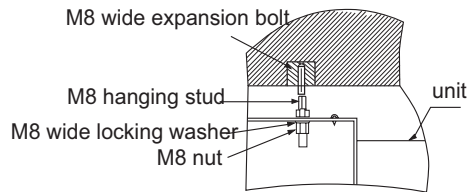


Fig.5

- The drainpipe for condensed water should keep a gradient of 1%. The condensed water pipe should be heat-preserved with a sleeve.
- Hang the unit as shown in Fig. 5.

Installing the hoisting studs:

- Based on the normative installation for different building structure, install the machine with 4 M8 or M10 hoisting studs according to the outline drawing. When the height of the hoisting stud exceeds 0.9m, M10 studs should be used. The level meter can be used for the horizontal installation.
- Use the level meter to set the levelness of the machine to be within 5mm.

Installation of Blast Pipe of Indoor Units:

1. Installation of the air blowing pipe:

With a square blast pipe, the bore shouldn't be less than the sizes of air outlet pipe.

2. Installation of the air return pipe:

Connect one side of the air return pipes to the air return port of the indoor units with rivets, with the other side connected to air return shutter, as shown in Fig. 1.

3. Heat Preservation of Blast Pipes:

Heat preservation lays should be provided for air blowing & return pipes. Paste glue nails on the blast pipes and attach thermo wool, which covered by a layer of silver paper, fix it with glue nail cover, and then seal the joint with silver paper.

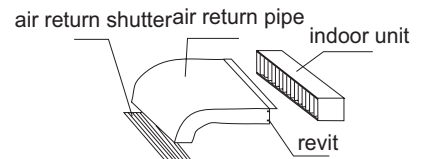


Fig.1
connection of oil return pipe

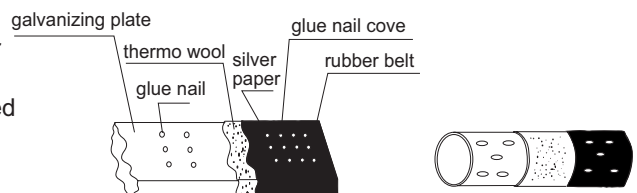
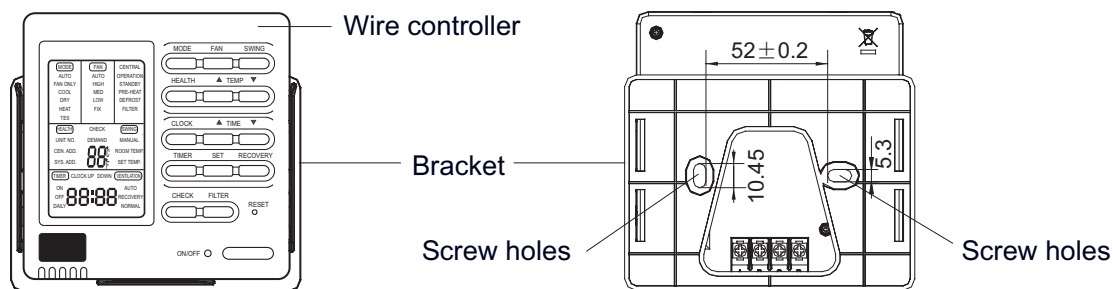


Fig.2

Installation Procedures

1. Take down wire controller from the holder



2. Install the controller holder

According to the position of 2 screw holes on the holder, drill 2 holes on the wall, and strike the wood stopper to the holes respectively.

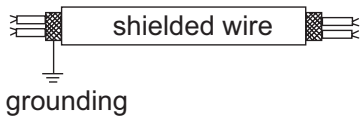
Then align the 2 screw holes of wired controller holder to the wood stopper, fix the holder on the wall with wood screw.

Note:

Try a wall as flat as possible for installation. Don't use excessive force to tighten screws, otherwise, the holder will be damaged.

3. Wiring instruction

Use shielded wire between indoor and wire controller. And be earthed on one side, or the unit will not work normally because of interference.



Note:

Confirm the terminal connection firmly, and do not get in touch with shielded wire. Don't touch the PC panel with your hands.

4. Place wire controller on the holder, and pay attention not to pressing any wires.

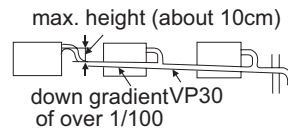
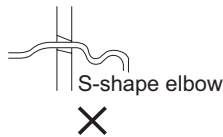
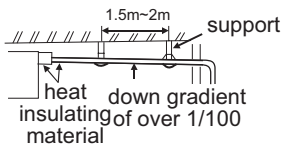
Installation Procedures

⚠ Attention

- For normal drainage, the water drainage piping should be connected according to the installation manual. Heat insulation should be performed to avoid condensation. Improper pipe connection may cause water going into the machine.

Requirements:

- Heat insulating treatment should be made for the water drainpipes of the indoor units.
- Heat preservation should be made for the connection with the indoor units. Improper heat preservation may cause condensing.
- The drainpipe should be designed with a down gradient of 1/100. The midway of the elbow shouldn't be made in S shape. Or abnormal noise may be caused.
- The lateral length of the drainpipe should be kept within 20m. Under the condition of long pipe, a support should be provided every 1.52~2m to avoid unevenness.
- The central piping can be connected according the following figure.
- Don't apply external force to the connection of drainpipes.



Piping Materials & Heat Insulating Materials

As to prevent condensation, heat insulating treatment should be performed. The heat insulating treatment for piping should be done respectively.

Piping Material	Hard PVC tube VP31. 5mm(inner bore)
Heat Insulating Material	Vesicant polythene thickness: over 7mm

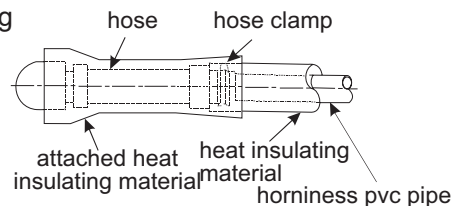
Hose

The drainage hose is made of \varnothing 19.05mm (3/4") PVC tube, which can adjust the eccentricity and the angle of the hard PVC tube.

- Stretch the hose directly to make connections as to avoid distortion. The soft end of the hose should be positioned with a clamp.
- The hose should be used in the horizon direction.

Heat Insulating Treatment:

- Wrap the connection between the clamp and the root segment of the indoor unit without any gap with heat insulating materials as shown in the drawing



Confirming water drainage

During the test run, check the condition of water drainage and make sure that there is no leakage on the connection of piping, which should also be performed during the winter.

Installation Procedures

Tubing Permissible Length & Height Difference

Please refer to the attached manual of outdoor units.

Tubing Materials & Specifications

Special tools for R410A should be used for cutting and enlarging pipes.

Model		DAV009
Tubing Size (mm)	Gas pipe	Ø9.52
	Liquid pipe	Ø6.35
Tubing Material	Phosphor deoxybronze seamless pipe (TP2) for air conditioner	

Refrigerant Filling Amount

Add the refrigerant according to the installation instruction of outdoor unit. The addition of R410A refrigerant must be performed with a measure gage to ensure the specified amount while compressor failure can be caused by filling too much or little refrigerant.

Connecting Procedures of Refrigerant Tubing

With the soft solder, the nitrogen-filling protection should be used.

Cutting and Enlarging

Cutting or enlarging pipes should be proceeded by installation personnel according to the operating criterion if the tube is too long or flare opening is broken.

Vacuumizing

Vacuumize from the stop valve of outdoor units with vacuum pump. Refrigerant sealed in indoor machine is not allowed to use for vacuumization.

Vacuum pump with check valve should be used for vacuumizing to prevent pump oil flowing into the machine.

Open All Valves

Open all the valves of outdoor units. [NB: oil balancing stop valve must be shut up completely when only connected one main unit.]

Checkup for Air Leakage

Check if there is any leakage at the connecting part and bonnet with hydrophone or soapsuds.

Connecting

1. Connecting circular terminals:

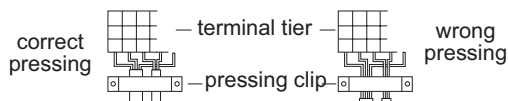
The connecting method of circular terminal is shown in the Fig. Take off the screw, connect it to the terminal tier after heading it through the ring at the end of the lead and then tighten it.

2. Connecting straight terminals:

The connection methods for the circular terminals are shown as follows: loosen the screw before putting the line terminal into the terminal tier, tighten the screw and confirm it has been clamped by pulling the line gently.

3. Pressing connecting line

After connecting line is completed, press the connecting line with clips which should press on the protective sleeve of the connecting line.



Electrical Wiring

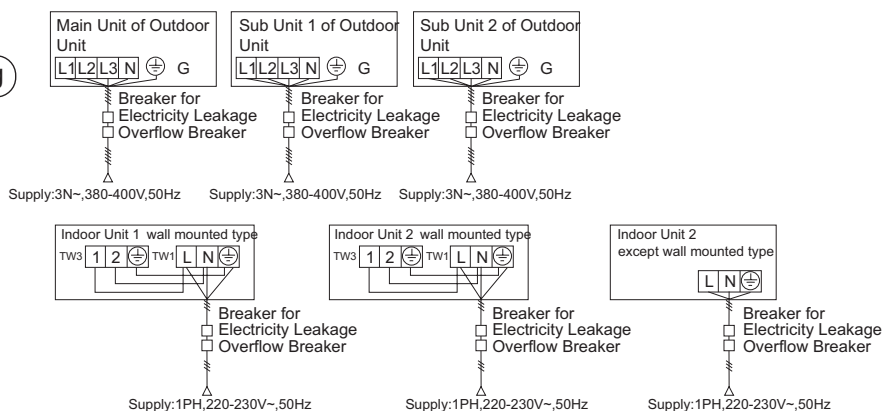
⚠ Warning

- Electrical construction should be made with specific mains circuit by the qualified personnel according to the installation instruction. Electric shock and fire may be caused if the capacity of power supply is not sufficient. ⚠
- During arranging the wiring layout, specified cables should be used as the mains line, which accords with the local regulations on wiring. Connecting and fastening should be performed reliably to avoid the external force of cables from transmitting to the terminals. Improper connection or fastness may lead to burning or fire accidents. ⚠
- There must be the ground connection according to the criterion. Unreliable grounding may cause electrical shocks. Do not connect the grounding line to the gas pipe, water pipe, lightning rod and telephone line. ⚠

⚠ Attention

- Only copper wire can be used. Breaker for electric leakage should be provided, or electric shock may occur.
- The wiring of the mains line is of Y type. The power plug L should be connected to the live wire and plug N connected to null wire while ⊕ should be connected to the ground wire. For the type with auxiliary electrically heating function, the live wire and the null wire should not be misconnected, or the surface of electrical heating body will be electrified. If the power line is damaged, replace it by the professional personnel of the manufacturer or service center.
- The power line of indoor units should be arranged according to the installation instruction of indoor units.
- The electrical wiring should be out of contact with the high-temperature sections of tubing as to avoid melting the insulating layer of cables, which may cause accidents.
- After connected to the terminal tier, the tubing should be curved into be a U-type elbow and fastened with the pressing clip. ⚠
- Controller wiring and refrigerant tubing can be arranged and fixed together.
- The machine can't be powered on before electrical operation. Maintenance should be done while the power is shut down.
- Seal the thread hole with heat insulating materials to avoid condensation.
- Signal line and power line are separately independent, which can't share one line. [Note: the power line, signal line are provided by users. Parameters for power lines are shown as below: $3 \times (1.0-1.5) \text{ mm}^2$; parameters for signal line: $2 \times (0.75-1.25) \text{ mm}^2$ (shielded line)]
- 5 butt lines (1.5mm) are equipped in the machine before delivery, which are used in connection between the valve box and the electrical system of the machine. The detailed connection is displayed in the circuit diagram.

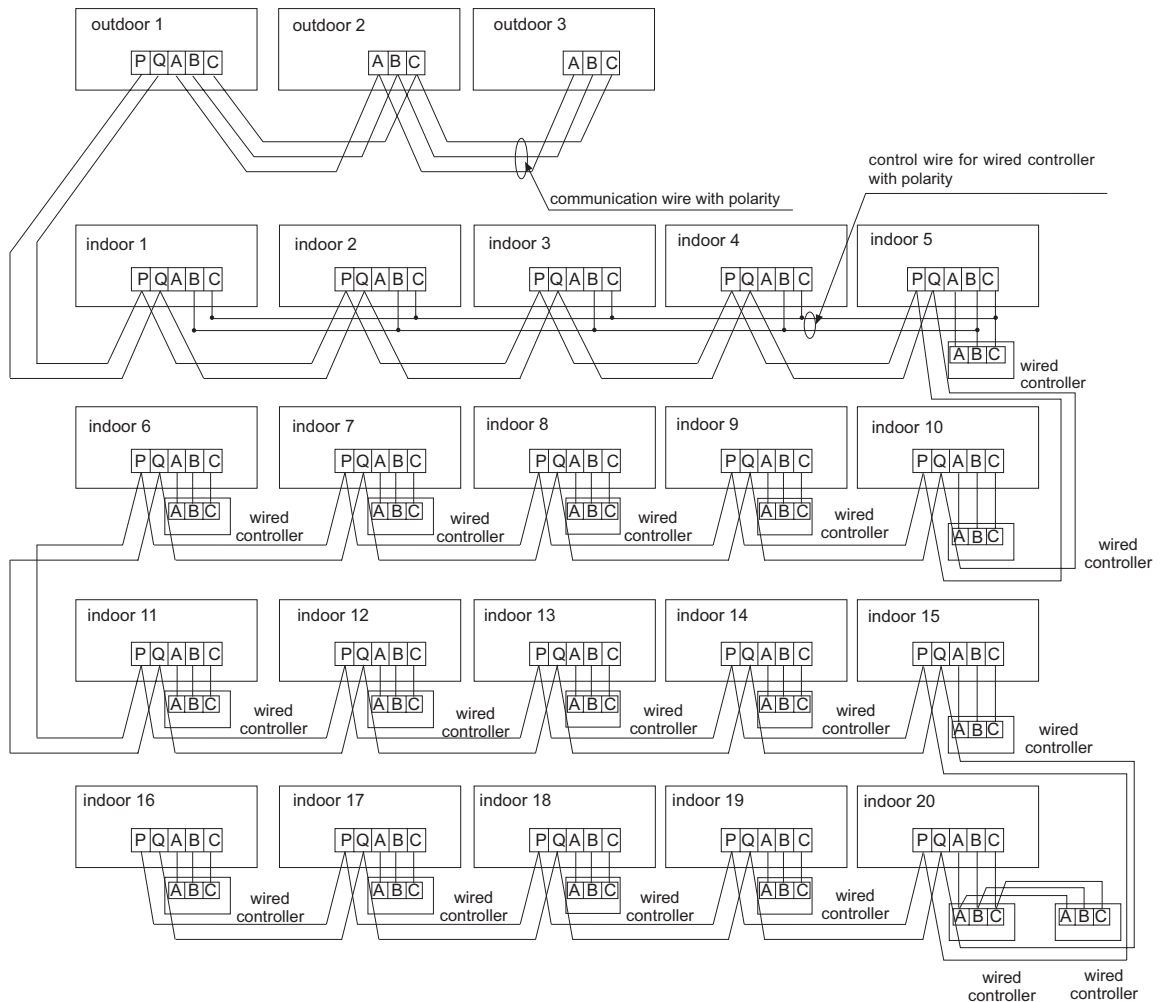
Supply Wiring Drawing



- Indoor units and outdoor units should be connected to the power source separately. Indoor units must share one single electrical source, but its capacity and specifications should be calculated. ~~Indoor & outdoor units should be equipped with the power leakage breaker and the overflow breaker.~~
- An all-pole disconnection switch having a contact separation of at least 3mm in all poles should be connected in fixed wiring.

Electrical Wiring

Signal Wiring Drawing



Outdoor units are of parallel connection via three lines with polarity. The main unit, central control and all indoor units are of parallel connection via two lines without polarity.

There are three connecting ways between line control and indoor units:

- One line control controls multiple units, i.e. 2-16 indoor units, as shown in the above figure, (1-5 indoor units). The indoor unit 5 is the line-controlled, i.e. main unit and others are the line-controlled sub units. The remote control and the main unit (directly connected to the indoor unit of line control) are connected via three lines with polarity. Other indoor units and the main unit are connected via two lines with polarity. SW01 on the main unit of line control is set to 0 while SW01 on other sub units of line control are set to 1, 2, 3 and so on in turn. (Please refer to the code setting A at page 27)
- One line control controls one indoor unit, as shown in the above figure (indoor unit 6-19). The indoor unit and the line control are connected via three lines with polarity.
- Two line controls control one indoor unit, as shown in the figure (indoor unit 20). Either of the line controls can be set to be the master line control while the other is set to be the auxiliary line control. The master line control and indoor units, and the master and auxiliary line controls are connected via three lines with polarity.

When the indoor units are controlled by the remote control, switch over the modes by Switching Mode of Line-Controlled Main Unit/ Line-Controlled Sub Units/ Remote-Controlled Types. The signal terminals needn't to be equipped with wires and connected to the line control.

Electrical Wiring

The combination of multiple indoor units can be controlled by wired controller or remote controller.

※ Switching Mode of Line-Controlled Main Unit/ Line-Controlled Sub Units/ Remote-Controlled Types can be used for switching over ※

Control Mode Socket/Code	Line-Controlled Main Unit	Line-Controlled Sub Unit	Type Switching Mode of Remote Control
CN23	strapping	no strapping	no strapping
CN30	strapping	strapping	no strapping
CN21	null	null	connected to receiving plank of remote control
SW08-[6]	ON	ON	OFF
Signal Terminals	A,B,C are connected to wired controller	B,C are connected to wired controller	A,B,C are not connected to wired controller

Note: DAV models are set to wired controlled type before delivery

The wiring for the power line of indoor unit, the wiring between indoor and outdoor units as well as the wiring between indoor units:

Total Current of Indoor Units(A)	Items	Cross Section (mm ²)	Length (m)	Rated Current of Overflow Breaker(A)	Rated Current of Power Leakage Breaker (A) Leaking Current(mA) Operating Period (S)	Cross Sectional Area of Signal Line	
						Outdoor -indoor (mm ²)	Indoor -indoor (mm ²)
<10		2	20	20	20 A,30 mA,0.1S or below	2 cores×0.75-2.0 mm ² shielded line	
≥10 and <15		3.5	25	30	30 A,30 mA,0.1S or below		
≥15 and <22		5.5	30	40	40 A,30 mA,0.1S or below		
≥22 and <27		10	40	50	50 A,30 mA,0.1S or below		

- ※ Power cable model: H05VV-F
- ※ The diameter of earth cable cannot be smaller than power cable's.
- ※ The electrical power line and signal lines must be fastened tightly.
- ※ Every indoor unit must have the ground connection.
- ※ The power line should be enlarged if it exceeds the permissible length.
- ※ Shielded lays of all the indoor and outdoor units should be connected together, with the shielded lay at the side of signal lines of outdoor units grounded at one point.
- ※ It is not permissible if the whole length of signal line exceeds 1000m.

Signal Wiring of Wired controller

Length of Signal Line (m)	Wiring Dimensions	Length of Signal Line (m)	Wiring Dimensions
<100	0.3mm ² *3 core shielding line	≥300 and <400	1.25mm ² *3 core shielding line
≥100 and <200	0.5mm ² *3 core shielding line	≥400 and <600	2mm ² *3 core shielding line
≥200 and <300	0.75mm ² *3 core shielding line		

- ※ The shielding lay of the signal line must be grounded at one end.
- ※ The total length of the signal line shall not be more than 600m.

Code Setting

- ※ The code is dialed to "ON" position with the overline at the state of strapping if the code or overline status is "1"; The code is dialed to "OFF" position with the overline at the state of disconnection if the code or overline status is "0".
- ※ In the table below, the choice in the box "□" refers to the setting of the socket/overline before delivery.

Electrical Wiring

① Indoor Units PCB

A. With the indoor units controlled by the line control in groups, the address setting of indoor units: SW01 [1]-[4]

- ※ The setting of SW01 is performed by installation personnel during installation.
- ※ Switch SW01 of the matching indoor unit to “0” in one line control to one unit, double line controls to one unit and remote controlling conditions.

SW01				wired controller address
1	2	3	4	
0	0	0	0	0
0	0	0	1	1
0	0	1	0	2
0	0	1	1	3
0	1	0	0	4
0	1	0	1	5
-----				-----
1	1	0	0	12
1	1	0	1	13
1	1	1	0	14
1	1	1	1	15

Position of SW01 Main Unit	Position of SW01 Sub Unit
0	1-15 (The dialing codes of sub units in the same group should be different)

B. The central control address setting of indoor units: SW02

- ※ When controlled by line control in groups, the main unit needs to be set while it is unnecessary to set the sub units.
- ※ The setting of SW02 can be done by installation personnel during installation.

SW02								Switching Description
[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	
--	0	0	0	0	0	0	0	Central control address = 1
--	0	0	0	0	0	0	1	Central control address = 2
----								----
--	1	1	1	1	1	1	0	Central control address = 127
--	1	1	1	1	1	1	1	Central control address = 128
0								Allowed wire controller address setting
1								Forbidden wire controller address setting

C. Communication Address Setting between Indoor Units and Outdoor Units: SW03

- ※ The setting of SW03 can be done by installation personnel during installation.

SW03								Switching Description
[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	
--	--	0	0	0	0	0	0	Communication address of indoor units = 1
--	--	0	0	0	0	0	1	Communication address of indoor units = 2
----								----
--	--	1	1	1	1	1	0	Communication address of indoor units = 63
--	--	1	1	1	1	1	1	Communication address of indoor units = 64
--	0							Allowed wire controller address setting
--	1							Forbidden wire controller address setting
0								Automatic address setting
1								Manual address setting

• There are 1 ways of setting communication addresses between indoor units and outdoor units:

A. Manual: first, set SW03-[1] to “1”, and then set SW03-[8]-[3] according to requirements.

B. Take one of the three ways while only one way is valid at the same time. The highest priority level is the Line Control way.

C. Line/Remote Control Option: set SW08-[6].

- ※ The setting of SW08-[6] can be done by installation personnel during installation.

Status of SW08-[5]	Controlling Method
ON	Room card available
OFF	unavailable

Electrical Wiring

Status of SW08-[6]	Controlling Method
<input type="checkbox"/> ON	Wired control(include one control to multiple units, two controls to one unit and one control to one unit)
<input type="checkbox"/> OFF	Remote control

② Wired Controller Code Settings

Serial No.	Type	Switch Status	Switchover Function
J03	Choice of room temp. indications	0	There is no indication for room temperature
		<input type="checkbox"/> 1	Automatic reset after power failure
SW01-[1]	Switchover of main & auxiliary wired controllers	<input type="checkbox"/> ON	Set to auxiliary wired controller
		<input type="checkbox"/> OFF	Set to main wired controller
SW01-[2]	Switchover of Centigrade & Fahrenheit	<input type="checkbox"/> ON	Indicating Fahrenheit
		<input type="checkbox"/> OFF	Indicating Centigrade
D1	Schedule compression function	<input type="checkbox"/> ON	Indoor units perform schedule compression
		<input type="checkbox"/> OFF	Normal control
D2	Compulsive defrosting	<input type="checkbox"/> ON	Sending "Compulsive Defrosting" signal to indoor units
		<input type="checkbox"/> OFF	Normal control

- D1 and D2 are diodes. Turn to "OFF" to disconnect holes of both sides while turn to "ON" to strap the holes of two sides with a guide line.
- The code/ overline/ diode in the gray frame indicates that safety operation can be done by opening the shell of remote control.
- Only when dual line controls control one indoor unit can one of the line control be set to auxiliary line control by setting SW01-[1] to "ON" while keeping the settings of others "OFF".

Difference between Main Wired Controller and Auxiliary Wired Controller

Comparison Items	Main wired controller	Auxiliary wired controller
Functions	All functions	It can only set shutdown, mode, air quantity, temperature and swinging.

Functions of Wired Controller

Operation of Wired/Remote Controllers

- ① Initialization process of line control:
During the initialization of line control after powered on, [8888]→[888]→[88]→[8] for the wired controllers and LED flash for about 30 seconds. At this time, all buttons are disabled.
- ② Descriptions of other components and operating methods refer to the related operating guide.
- ③ Special functions of wired control:
 - A Setting of central control address of indoor units:
When indoor unit code setting allows line control to set the address, continually press “Resetting Filtering Screen” for 10 seconds to enter into the mode of setting the central control addresses, and select the unit No. of the group by “Time +/-” button.
Indication of temperature displays:
[Central Control Address]+XX: Press “Temp. +/-” button. XX ranges from 0-7F with the initial value of 00. After finishing the setting, press “Setting” button to save the setting and quit. By pressing other buttons or without pressing within 15 seconds, it will automatically quit and keep the last setting.
 - B Setting of communication address between indoor units and outdoor units:
When indoor unit code setting allows line control to set the address, continually press “Resetting Filtering Screen” for 5 seconds to enter into the mode of setting the communication addresses, and select the unit No. of the group by “Time +/-” button.
Indication of temperature displays:
[System Address]+XX: Press “Temp. +/-” button. XX ranges from 0-3F with the initial value of 00. After finishing the setting, press “Setting” button to save the setting and quit. By pressing other buttons or without pressing within 15 seconds, it will automatically quit and keep the last setting.
 - C Inquiry of fault records of indoor units:
In the state of startup or shutdown, press “CHECK” button to go into the mode of inquiring faults of all indoor units in this group. The temperature zone indicates “CHECK” and “Unit No.”, which shows the unit number with the actual connection in sequence in the decimal system. Meanwhile, the time zone indicates the code of the current fault and the previous fault of the responding machine in the format of [XX:YY], in which, XX refers to the code of the current fault (if normal, it shows “- -”) and YY refers to the code of the previous fault. The indication of fault code of each machine lasts 3 seconds. After the indication of the whole group, it automatically quit.
Removing abnormal states & clearing fault records:
 - D Under normal conditions, continually press “CHECK” button for 5 seconds to clear fault records.
Inquiring running state of indoor units of the group:
 - E Under normal condition, press “Setting” button for 5 seconds until the temperature zone on the liquid crystal screen shows [XX], referring to the unit number of indoor units and select unit, and select unit number by “Temp. +/-” button. The time zone displays [YZZZ], in which, Y refers to the data type and ZZZ to the responding data. Select the data type by “Time +/-” button.

Y	ZZZ	System
A	Temperature of indoor unit transducer TA	Actual value, decimal system
B	Temperature of indoor unit transducer TC1	Actual value, decimal system
C	Temperature of indoor unit transducer TC2	Actual value, decimal system
D	PMV step of indoor units	Actual value/2. decimal system(e.g. indication of 50 with actual step of 100)
E	Communication address between indoor/outdoor units	Actual value, sexadecimal system
F	Central address	Actual value, sexadecimal system

Under the inquiring state, press “CHECK” button to quit the inquiring state and return to the normal operating state.

Test Run & Fault Code

Before Test Run

- Before switching it on, test the supply terminal tier (L, N terminals) and grounding points with 500V megaohm meter and check if the resistance is above 1M*. It can't be operated if it is below 1M*.
- Connect it to the power supply of outdoor units to energize the heating belt of the compressor. To protect the compressor at startup, power it on 12 hours prior to the operation.

Check if the arrangements of the drainpipe and connection line are correct.

The drainpipe shall be placed at the lower part while the connection line placed at the upper part. Heat preservation measures should be taken such as winding the drainpipe esp. in the indoor units with heating insulating materials.

The drain pipe should be made a slope type to avoid protruding at the upper part and concaving at the lower part on the way.

Checkup of Installation

- | | |
|---|--|
| <input type="checkbox"/> check if the mains voltage is matching | <input type="checkbox"/> check if the installation place meets the requirement |
| <input type="checkbox"/> check if there is air leakage at the piping joints | <input type="checkbox"/> check if there is too much noise |
| <input type="checkbox"/> check if the connections of mains power and indoor & outdoor units are correct | <input type="checkbox"/> check if the connecting line is fastened |
| <input type="checkbox"/> check if the serial numbers of terminals are matching | <input type="checkbox"/> check if the connectors for tubing are heat insulated |
| | <input type="checkbox"/> check if the water is drained to the outside |
| | <input type="checkbox"/> check if the indoor units are positioned |

Ways of Test Run

Do ask the installation personnel to make a test run. Take the testing procedures according to the manual and check if the temperature regulator works properly.

When the machine fails to start due to the room temperature, the following procedures can be taken to do the compulsive running. The function is not provided for the type with remote control.

- Set the wired controller to refrigerating/heating mode, press "ON/OFF" button for 5 seconds to enter into the compulsive refrigerating/heating mode. Repress "ON/OFF" button to quit the compulsive running and stop the operation of the air conditioner.

Fault Remedies

When any fault appears, refer to "Inquiry of fault records of indoor units" at the previous page, consult the fault code of line control or the flashing times for LED5 of computer panel of indoor units/health lamp of receiving window of remote control and find out the faults as shown in the following table to remove all faults.

Indoor Unit Faults

Wired Controller Fault Code	PCB LED5(Indoor Units)/ Receiving Window Health Lamp (Remote Controller)	Fault Descriptions
01	1	Fault of indoor unit ambient temp. transducer TA
02	2	Fault of indoor unit pipe temp. transducer TC1
03	3	Fault of indoor unit pipe temp. transducer TC2
04	4	Fault of indoor unit dual heat source temp. transducer
05	5	Fault of indoor unit EEPROM
06	6	Fault of communication between indoor & outdoor units
07	7	Fault of communication between indoor unit and wired control
08	8	Fault of indoor unit water drainage
09	9	Fault of duplicate indoor unit address
0A	10	Fault of duplicate central control address
Outdoor Unit Code	20	Corresponding faults of outdoor units

Disposal

DISPOSAL:

Do not dispose this product as unsorted municipal waste. Collection of such waste separately for special treatment is necessary.

It is prohibited to dispose of this appliance in domestic household waste.

For disposal there are several possibilities:

- a) The municipality has established collection systems, where electronic waste can be disposed of at least free of charge to the user.
- b) When buying a new product, the retailer will take back the old product at least free of charge.
- c) The manufacturer will take back the old appliance for disposal at least free of charge to user.
- d) As old products contain valuable resources, they can be sold to scrap metal dealers.

Wild disposal of waste in forests and landscapes endangers your health when hazardous substances leak into the ground-water and find their way into the food chain.

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