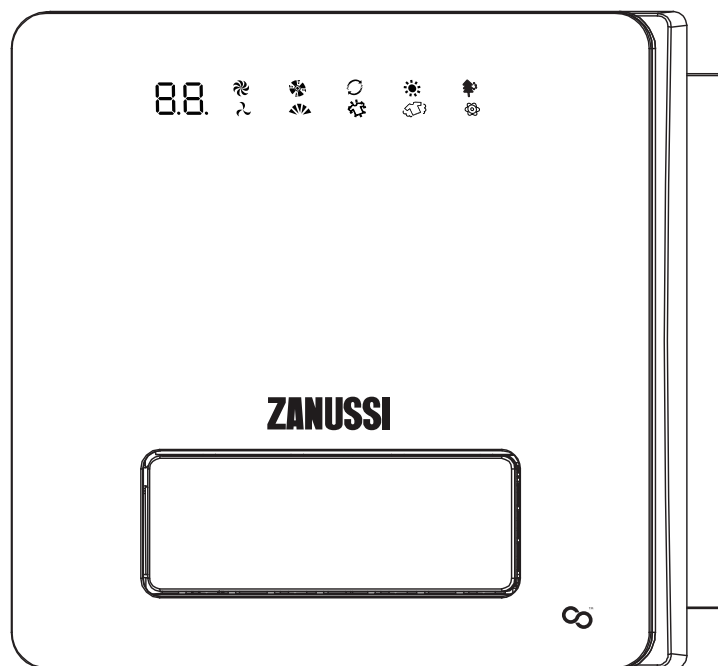


New

Thermo ventilation

ZBHC8

User manual and installation instruction

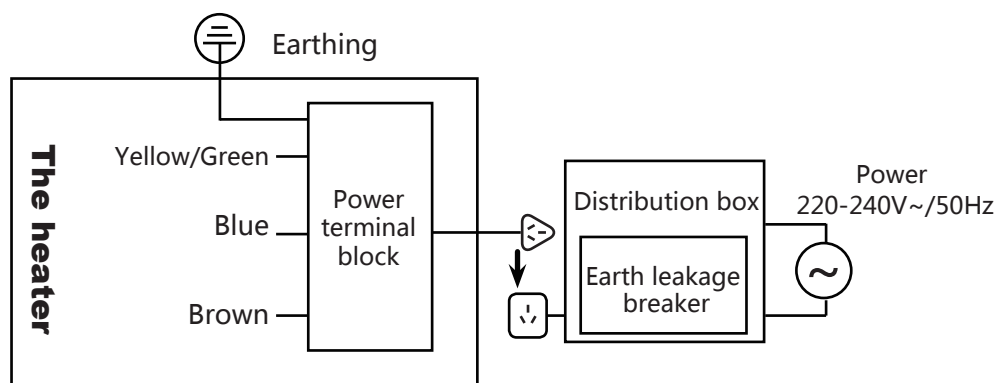


Read this manual carefully before use.

Caution: In order to avoid any damage or injury, installation and wiring should be done by dealers or authorized persons.

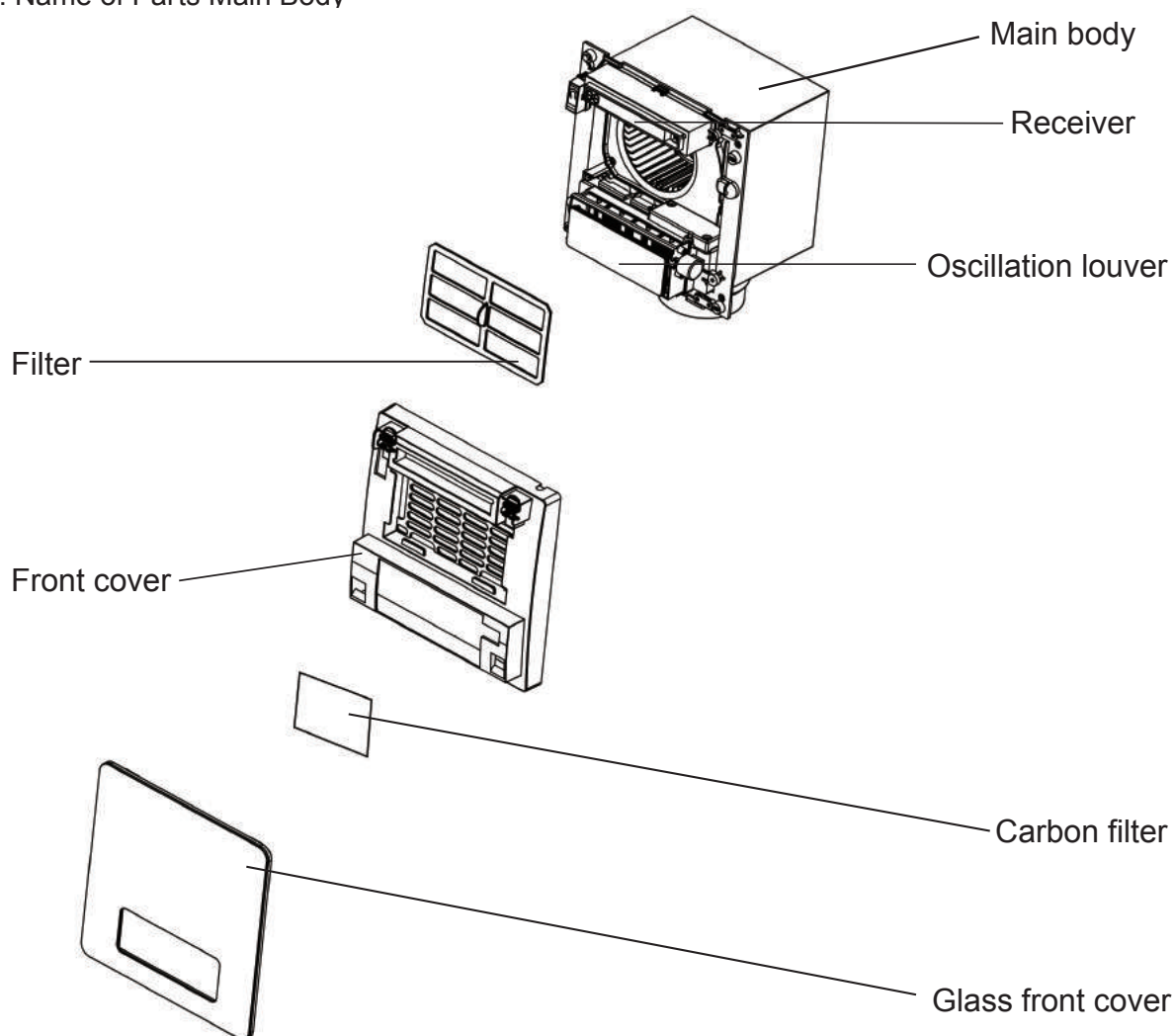
⚠ Installation and Usage Precaution:

1. This product should be installed in the place which can bear the weight of this product.
2. Incorrect installation may cause noise, resonance. Please assembly properly.
3. In order not to cause the dew flowing back from exhaust pipe to the bathroom, the exhaust pipe should be set in downward sloping to the outdoor.
4. The ventilation resistance of the ventilation flap is the main reason which causes the decrease of air volume and high noise. Please use this appropriately.
5. Make sure that the Front Cover shall not be less than 2.3 meters off the ground during installation.
6. Do not install the product directly above the hot furnace or a place with temperature over 40 ℃.
7. Please set airflow intake to promote convection.
8. Do not change the product's rated features.
9. Any other installation method beyond the specified in the manual is prohibited.
10. The ceiling openings should face down in order to ensure the product installed at horizontal level.
11. Please take proper measures to prevent gas from the exhaust pipe or other fuel burning equipment flowing back to the room.
12. Before installation, please ensure that the power has been cut off.
13. When the flammable gas leaks, stop using the product, turn it off.
14. Do not cover the heater, especially the front panel where the air inlet and heating air outlet, to avoid overheat and danger.
15. This heater must not be located below a socket outlet, and do not install it too close to the socket outlet, to prevent damage of other electrical appliances, if the heater gets damaged.
16. Prohibit using any programs or timer automatically connected to the power or any other devices to start this product, otherwise it may cause damage to the product or fire.
17. Do not install this product near curtains and other flammable material to prevent any danger.
18. During installation and normal usage, do not remove the main circuit board, otherwise it may cause electric shock or fire.
19. This product is not suitable for the disabled, mental retarded or mental disorder, or those who are lack of experience and common sense(including children) unless they are under guidance. During the period of maintenance, children should be taken special care of and do not let them play the product as toys.
20. The children aged less than 3 year-old must stay away from the product, unless continuous supervision and guidance by any adult. The children aged between 3 and 8 years old, they can only switch on or off the product, with knowledge of relevant risk during usage and under guidance of adult , if the product is properly installed and in good condition. But they cannot plug or unplug the product, do complicate operation or repair it.
21. Warning— Some components or parts may become quite hot or cause burning. Particular attention must be given to children or vulnerable people if they are at present.
22. If the power wire or plug is damaged, do not use this product. The replacement or maintenance on the appliance must be done by the manufacturer, after-sales service department or other qualified persons.
23. To make sure that a switcher is available for completely cutting off the power, diagram below as reference:



★ **Name of Parts**

1. Name of Parts Main Body



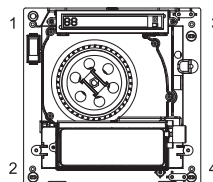
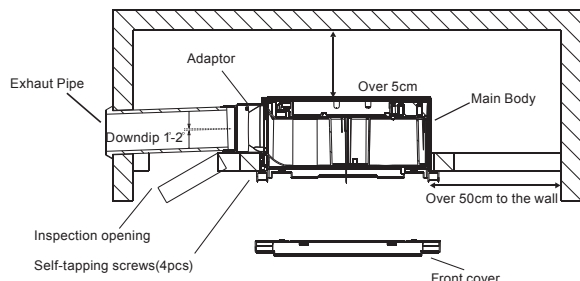
2. Infrared Remote control



★ Installation Method

A. Ceiling fixed frame method

- Installation schematic diagram:



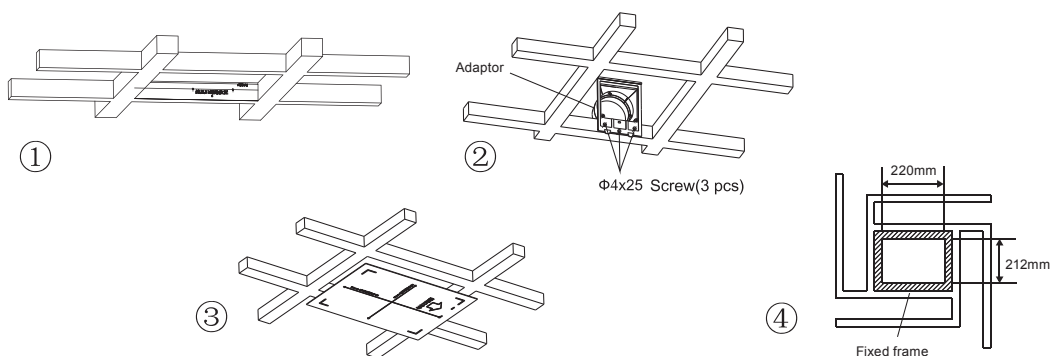
Screw hole 1. 2. 3. 4 applicable for ceiling joist installation, suspended ceiling installation and window installation.

1. Install the fixed frame to the ceiling

- Make the fixed frame.
- Please use the materials that can bear 4.5kg to fix the surrounding part.
- Sticks of 30*25mm are to be used for the fixed frame.
- Inner size of the fixed frame: 220*212mm.
- If there is no exhaust pipe to the outdoors, please install the hard exhaust pipe sized inner diameter 98.4mm firstly.

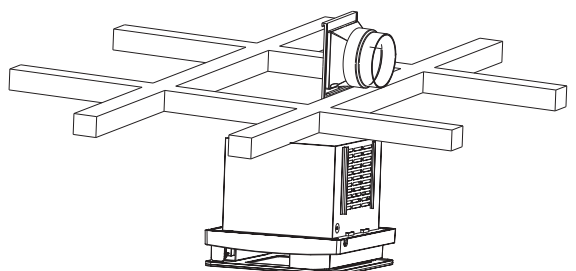
2. Install the adaptor

- Find out the screw place on the fixed frame, by cutting the paperboard along the dash line, according to below diagram.
- Use three self-tapping screws(4*25mm) to fix the adaptor to the ceiling of the fixed box.



3. Install the main body

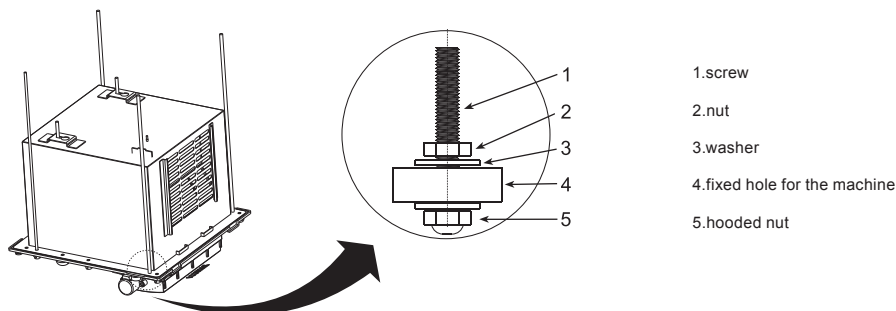
- Put the main body face the guide slot of the adaptor directly, then push up the main body.
- Please make sure that the main body jointed to the adaptor, then use four tapping screws(diameter 4*25mm) to fix the main body.



B. Integrated suspended ceiling method

1. Install the main body

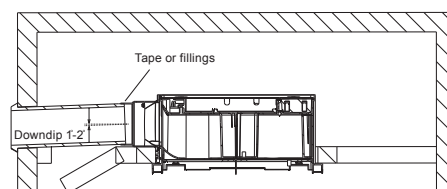
- Fix the main body to the booms(recommended boom M6, if necessary)



2.Install the exhaust pipe

- Use tape or the filling to seal the junction between the exhaust pipe and adaptor.
- The exhaust pipe should have the tendency (1 degree to 2 degrees) down towards outside.

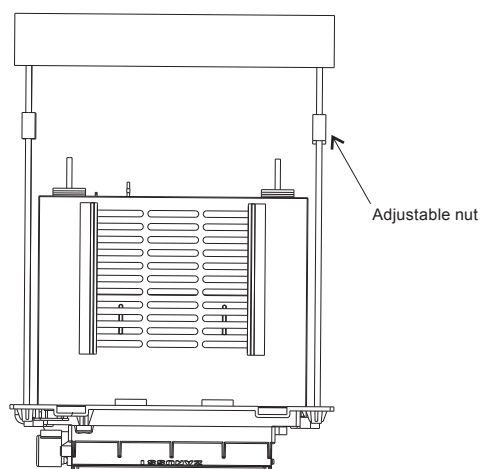
Plastic pipe	Nominal 4" inner diameter>100mm
Aluminum pipe	



3.Install the front cover

- Open the 4 screw covers, and use 4 screws to fix the front cover and main body.
Please check the following inspection points once above finished:
- Whether the installation of the front cover is well fixed.
- Whether any noise or shaken happen during operation.

- The booms must be in the same level during installation, if there is any difference, please use the adjustable nuts to do the adjustment.



C. Window type method

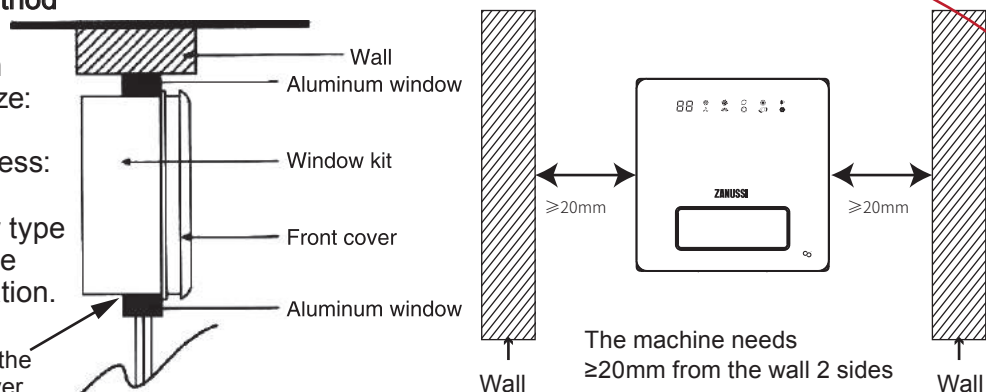
Front cover size:
254mmX254mm

Window frame size:
210mmX219mm

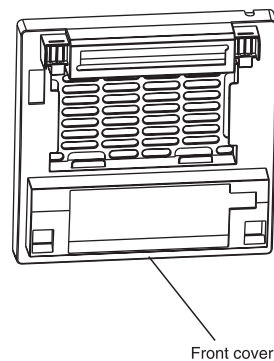
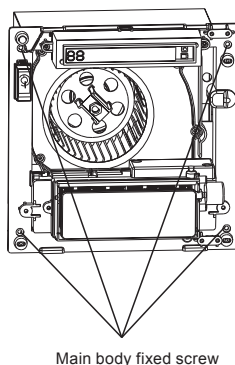
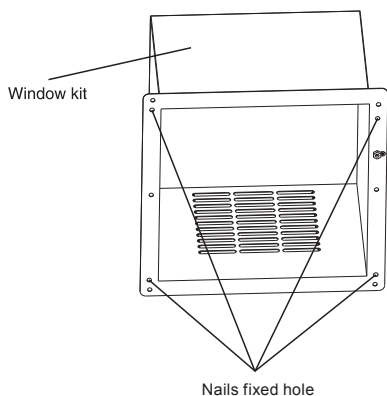
Main body thickness:
160mm.

*Remark: Window type
installation must be
transverse installation.

The vent is under the
stainless steel cover
and cannot be covered

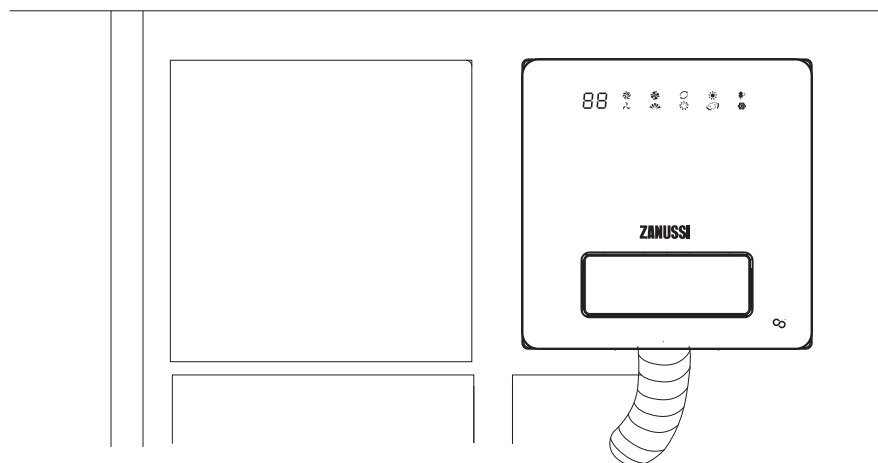


1. Install at the place of the aluminum framed window or replace the exhaust fan in the bathroom
2. Fix the window kit to the frame of the aluminum window(waterproof glue must be used for waterproof)
3. After connecting the power cord, embed the main body into the hole with screws.



D. Wall mounted type method

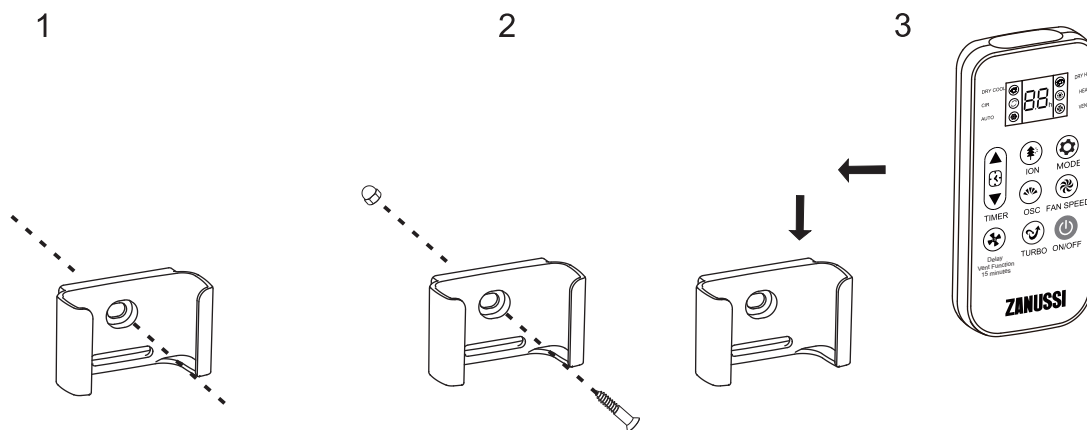
1. Applicable for the bathroom without ceiling.
2. Fix the wall kit to the wall, then embed the main body on the wall kit.
3. Set the exhaust pipe(4" inner diameter 100mm) to the glass of window, and fix it to the adaptor with tape or metal clamp.
4. Applicable size of the main body: 254mmX254mm,
Thickness of the main body: 160mm.
5. The minimum distance between the surrounding structures should be 50 cm.



★ **Installation of Remote Controller**

- This is the wireless remote control, please install it to the suitable place with the accessory holder if necessary

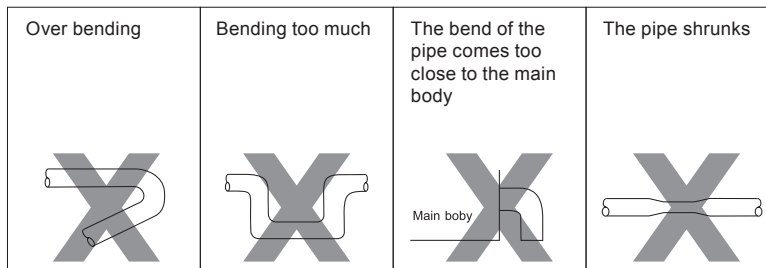
1. Fix the R/C holder to the designated place and make marks according to the arrows
2. Dig holes 1/4(6mm) according to the marks, and fill in the holes with 4 plastic plugs.
3. Put the remote controller into the holder.



★ **Installation of Exhaust Pipe**

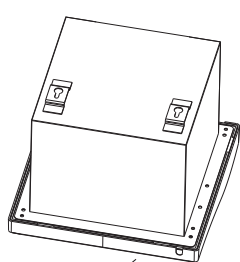
- Please avoid the following situations when installing the exhaust pipe.

1. Over bending.
2. Bending too much.
3. The bend of the pipe comes too close to the main body.
4. The pipe shrinks.

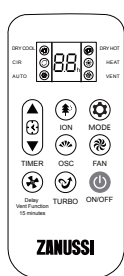


★ **Electrical engineering-wiring**

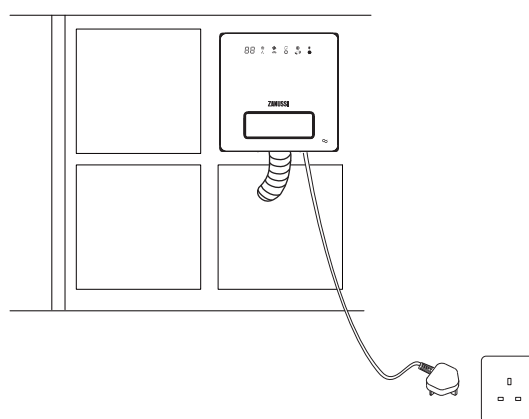
1. Installation and wiring must be done by qualified electrical engineering contractor.
2. Please use the product under rated voltage and rated frequency in accordance with its rating label.
3. Please prepare the unique air switch for this product in the user's house, and let the air switch should be consistent with air switch off contact all extremely disconnected requirements of distance is greater than 3mm, in order to cut off the power of the product immediately in case of accident.
4. Must be connected to the ground wire.
5. During installation, the fixed power wiring must be in accordance with local safety regulations.
6. For metal net bottom, steel wire net bottom of walls or wooden houses with the metal surface, etc. when install metal exhaust pipe through, do paying attention that there shall be no electrical contact.
7. When the power supply is insufficient, contact with electric power supply company.
8. Prior to the opening front cover, please make sure that the machine is powered off.



Main Body



Infrared Wireless Remote Control












9. This product shall not be placed directly below the power outlet, do not install too close to the socket to prevent the host electrical equipment from being damaged and damage other electrical appliances.

★ **Instructions**














FUNCTION	APPLICATION	OPERATION STATUS			Pre-set / Default setting
		Circulation	Air outlet	PTC heater	
AUTO	Automatic detection operation mode	/	/	/	1h
VENT (Wind speed switch key high/low)	Air exhaust	High/Low/ Turbo speed	ON	OFF	2h (1-24h)
Delay power off 15 minutes	Air exhaust	Low speed	ON	OFF	15 Min
COOL (Wind speed switch key high/low)	The bathroom in the cool wind (Summer) Clothes dry, bathroom dry	High/Low/ Turbo speed	Half Open (About 15 degrees)	OFF	4h (1-24h)
Heat (Wind speed switch key high/low)	Warm air	High/Low/ Turbo speed	OFF	ON	2h (1-24h)
Dry (Wind speed switch key high/low)	Rapid drying of the bathroom, laundry drying	High/Low/ Turbo speed	Half Open (About 15 degrees)	ON	4h (1-24h)
CIR (High/low fan speed key switch)	Bathroom cycle	High/Low/ Turbo speed	OFF	OFF	2h (1-24h)
OSC (up and down automatic)	Swing direction of the wind swing	45~90 Degree oscillation	/	/	Default 90 degree
ION	ION generation	ON/OFF	/	/	/

★ **Function Descriptions**




1. AUTO Function :

- Start: press "AUTO  " button, the "AUTO  " indication light gets on, and the machine starts to run in automatic mode, and the air volume runs at the mode of "Lo  ". After 20 seconds, the machine will run at different modes according to the room temperature(air volume automatically at "Hi  " mode).
 - a. Room temperature>24 °C degrees, the "CIR  " mode.
 - b. Room temperature<20 °C degrees, the "Heat  " mode.
 - c. 20 °C degrees<room temperature<24 °C degrees, the "Dry Hot  " mode.
 - d. Timer : default setting is 1 hour, it is not changeable.
- Stop: press the "ON/OFF  " button or pre-set time runs over, "AUTO  " indication light gets off, and the time display will disappear, and the machine stops automatically.














2. Ventilation Function :

- Start: press the "Vent  " button , the "Vent  " indication light gets on, air volume will run the "Lo  " mode. Press the "Speed" button to inter-change the "Hi  " or "Lo  " mode, Press "Turbo  " button, enter the strong working state (running noise of the whole will be a corresponding increase), after entering the HI  icon, LO  lit up at the same time, again according to the "Turbo  " key to exit a strong state, the next will start according to the user's habits, automatic memory the previous working condition.
- Timer: the default setting is 2 hours, By pressing the button "Time-up-down" to select time duration. The time could be set from 1 hour to 24 hours. The time counter will be showed on the "88" LED display. The time selection will be recorded in memory when it is off, and will resume in next usage.
- Under the mode, the inter-change of air volume between "Hi  " and "Lo  " will not affect the time counting.
- Stop: press the "ON/OFF  " button or pre-set time runs over, "Vent  " indication light gets off, and the time display will disappear, and the machine stops automatically.













3. Delay Vent Function :

- Start: press "Delay Vent  " button, and the "Delay Vent  " indication light gets on, it runs delay vent mode. It will stop after 15 minutes as default setting. Time could not be selected, and no display.
- Stop: press "ON/OFF  " button, and the default time run over, the machine will stop automatically.













4. Cool Function :

- Start: press "Dry Cool  " button to start with a "Hi  " mode for operation and indication light gets on. You can choose "Hi  " or "Lo  " air volume by continuously press "SPEED  " button, Press "Turbo  " button, enter the strong working state (running noise of the whole will be a corresponding increase), after entering the HI  icon, LO  lit up at the same time, again according to the "Turbo  " key to exit a strong state, the next will start according to the user's habits, automatic memory the previous working condition.
- Timer: the default time is 4 hours. By pressing "TIME-UP-DOWN" button to select time duration. The time can be set form 1 hour to 24 hours. The remaining time will be showed on the LED display. The time selection will be recorded in memory when it is off, and will resume in your next usage.
- Under the mode, the inter-change of air volume between "Hi  " and "Lo  " will not affect the time counting.
- Stop: press the "ON/OFF  " button or pre-set time runs over, "Dry Cool  " indication light gets off, and the time display will disappear, and the machine stops automatically.













5. Heat Function :

- Start: press "Heat  " button to start with a "Lo  " mode for operation and indication light gets on. You can choose "Hi  " or "Lo  " air volume by continuously press "SPEED" button, Press "Turbo  " button, enter the strong working state (running noise of the whole will be a corresponding increase), after entering the HI  icon, LO  lit up at the same time, again according to the "Turbo  " key to exit a strong state, the next will start according to the user's habits, automatic memory the previous working condition.
- Timer: the default time is 2 hours. By pressing "Time-up-down" button to select time duration. The time can be set form 1 hour to 24 hours. The remaining time will be showed on the LED display. The time selection will be recorded in memory when it is off, and will resume in your next usage.
- Under the mode, the inter-change of air volume between "Hi  " and "Lo  " will not affect the time counting.
- Stop: press the "ON/OFF  " button or pre-set time runs over, "Heat  " indication light gets off, and the time display will disappear, and the machine stops automatically.
- When the heater stops running, the fan will continuously run for around 35 seconds to cool down the heater.

6. Dry Hot Function :

- Start: press "Dry  " button to start with a "Lo  " mode for operation and indication light gets on. You can choose "Hi  " or "Lo  " air volume by continuously press "SPEED" button, Press "Turbo  " button, enter the strong working state (running noise of the whole will be a corresponding increase), after entering the HI  icon, LO  lit up at the same time, again according to the "Turbo  " key to exit a strong state, the next will start according to the user's habits, automatic memory the previous working condition.
- Timer: the default time is 4 hours. By pressing "Time-up-down" button to select time duration. The time can be set form 1 hour to 24 hours. The remaining time will be showed on the LED display. The time selection will be recorded in memory when it is off, and will resume in your next usage.
- Under the mode, the inter-change of air volume between "Hi  " and "Lo  " will not affect the time counting.
- Stop: press the "ON/OFF  " button or pre-set time runs over, "Dry  " indication light gets off, and the time display will disappear, and the machine stops automatically.
- When the heater stops running, the fan will continuously run for around 35 seconds to cool down the heater.

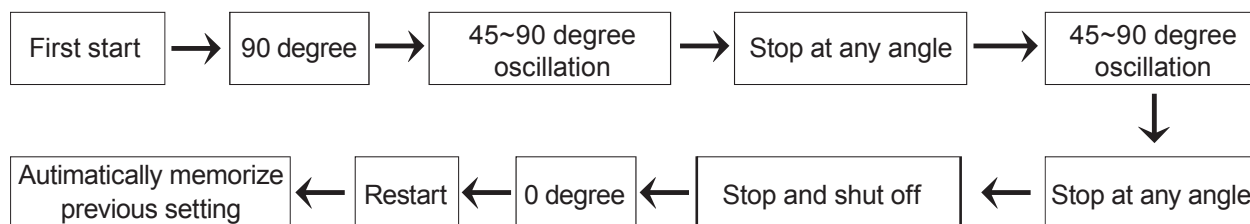
7. CIR Function :

- Start: press "CIR  " button to start with a "Hi  " mode for operation and indication light gets on. You can choose "Hi  " or "Lo  " air volume by continuously press "SPEED" button, Press "Turbo  " button, enter the strong working state (running noise of the whole will be a corresponding increase), after entering the HI  icon, LO  lit up at the same time, again according to the "Turbo  " key to exit a strong state, the next will start according to the user's habits, automatic memory the previous working condition.
- Timer: the default time is 2 hours. By pressing "Time-up-down" button to select time duration. The time can be set form 1 hour to 24 hours. The remaining time will be showed on the LED display. The time selection will be recorded in memory when it is off, and will resume in your next usage.
- Under the mode, the inter-change of air volume between "Hi  " and "Lo  " will not affect the time counting.
- Stop: press the "ON/OFF  " button or pre-set time runs over "CIR  " indication light gets off, and the time display will disappear, and the machine stops automatically.

8. Auto-swing 🌬️ :

- Start: default running the on and off operation, same with fan. If it is ON, LCD “🌬️” icon will display, and “🌬️” icon will disappear when it is off. When it is off, the swing function is invalid, and the louver will resume to 0 degree position.
- Start2 : When it is fan mode, the default is 90 degree louver position (The actual max angle of the glass panel is about 85 degrees).

Auto-swing When the fan is running, press the “OSC 🌬️” button, the louver will turn from 90 degree position to swing from 45 degree to 90 degree. Press “OSC 🌬️” button again, auto-swing function will stop, and if you press it again, it will run auto-swing again.



- Stop: When press "ON/OFF 🏠" button or pre-set time runs over, the louver will return to 0 degree position. But then it will resume in next usage, as recorded in memory.

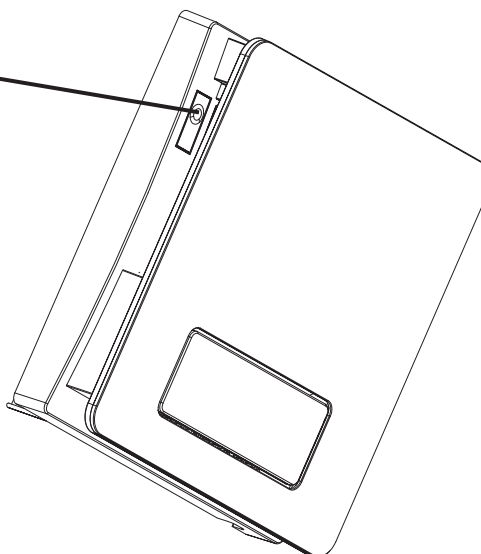
9. Ionizer Function 🌿 :

- Boot: ON state, the host machine body receiver display window marked bright.
OFF state, the host machine body receiver display window marked out close.
In the OFF state of the circulating fan, the negative ion key is invalid.
- Stop: in the process of running, press the negative ion 🌿 button, negative ions do OFF action, while the host receiver display window Marked out close;
once again pressed the button, negative ions 🌿 do ON action, while the host machine body receiver display window marked bright. So repeatedly.

10. Emergency Button:

- Press the start emergency button to automatic mode operation, once again touch the emergency button to switch to the ventilation mode operation, and touch again the emergency button to switch to standby mode.

Emergency Button



★ Maintenance and Safety Items

■ Maintenance:

- Please make sure that the machine is power off before maintenance.

- Please clean the front cover

a] please use the soft rag or soft brush to clean the dirty place of the cover.

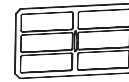
b] Put a clean rag in the warm water dissolved with neutral detergent, then use the rag

to wipe the front cover. Use another rag to wipe the panel then. The surface shall have no detergent residues.

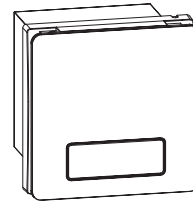
- Filter cleaning:

a] Please take out the filter and put it in water to clean the dust and dirty after around 1~3 weeks usually, then put it back to the cover after the filter is dry.

b] Subject to the frequency of use and environment.



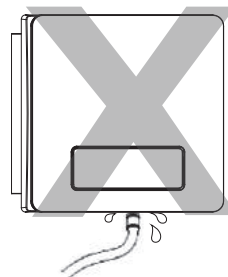
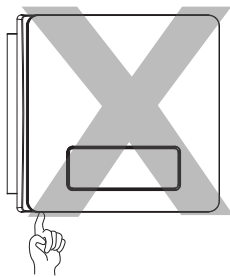
Filter



Front Cover

■ Safety Items:

- Do not put your hands into the machine when running, to avoid injury or burn by the heater.
- Do not spray water into the main body, which may damage the motor, or cause electric shock by the electricity leakage.



- In order to avoid any accident or injury, if any of the following symptoms and abnormal situation occur, please switch off the electricity and ask qualified electrical engineering contractor for repairing or checking(self repair by user is strictly prohibited, to avoid danger).

a] Turn on the power, the fan does not work

b] The power suddenly on, then gets off suddenly, and in turn.

c] Abnormal sound and vibration during operation

d] Plastic smell or other abnormal smell occurs.







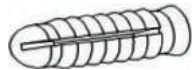

■ Trouble-shooting guide:

Phenomenon	Check	Solution
Not operate when the power turning on	No power supply	Switch the power
	The light of the remote control does not light on	Ask the qualified engineer for repair
The sound turns much louder	Filter blocking	Take out the panel and clean the filter
The remote control does not work	Low battery	Change the battery

★ **Specification**

Function	Max air volume Ventilation (m ³ /h)	Max of circulation (m ³ /h)	Motor power consumption (w)	Heater (w)
HEATER(Turbo)	/	110	50.8	1350
HEATER(Hi)	/	90	40	1300
HEATER(Lo)	/	80	26	1250
DRY HOT(Turbo)	67	60	50.8	1280
DRY HOT(Hi)	55	50	40	1200
DRY HOT(Lo)	55	50	40	1120
VENT(Turbo)	165	/	50.8	/
VENT(Hi)	132	/	40	/
VENT(Lo)	100	/	26	/
DRY COOL(Turbo)	67	60	50.2	/
DRY COOL(Hi)	55	50	40	/
DRY COOL(Lo)	40	45	26	/
Delay power off	132	/	40	/
Adaptor size	4"(98mm)			
Power	220-240V~ 50Hz			
Weight	4.7kg			

★ Screw list

Hardware packs	Usage	Name	Specification	Amount	Picture
1.Standard setting	Fixed remote control	Screw	ST 4*25, Round head	2	
		Plastic plug	Φ8*27	2	
2.Ceiling type setting	Air outlet joint*3, Air channel fixation*4	Screw	ST 4*25, Round head	7	
	Main body fixation	Fixed Nut	M6	4	
	Main body fixation	Fixed Screw	M6	4	
	Screw Adjusting	Adjusting nut	M6	4	
3.Hung-to-wall type setting	Hung-to-wall support installation	Plastic plug	Φ8*27	2	
		Screw	ST 4*25, Round head	2	
4.Window type setting	Watertight casing on the window	Screw	ST 4*25, Round head	4	

* Be aware that any change of the specification and design will not be informed.

* If any item in the English Version is different from that on Chinese Version, please refer to the Chinese Version.

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