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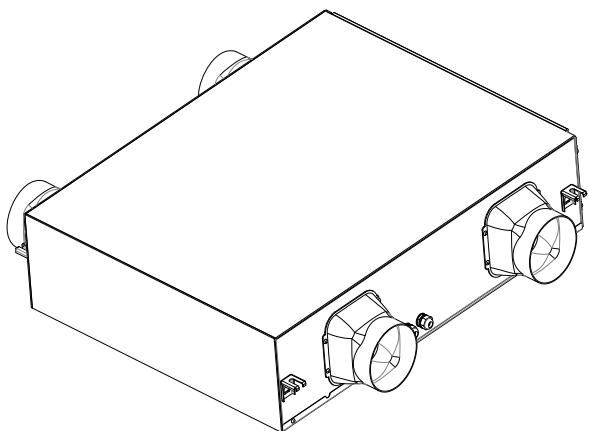
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Installation and Maintenance Manual

Heat Recovery Ventilator

Type	Model
Heat Recovery Ventilator	JDTH015H0NAGQF JDTH025H0NAGQF JDTH035H0NAGQF JDTH050H0NAGQF JDTH020H0NAGQ JDTH030H0NAGQ JDTH040H0NAGQ JDTH050H0NAGQ



Tips:

Please read and understand this manual carefully before using this Heat Recovery Ventilator and keep this manual for later use.

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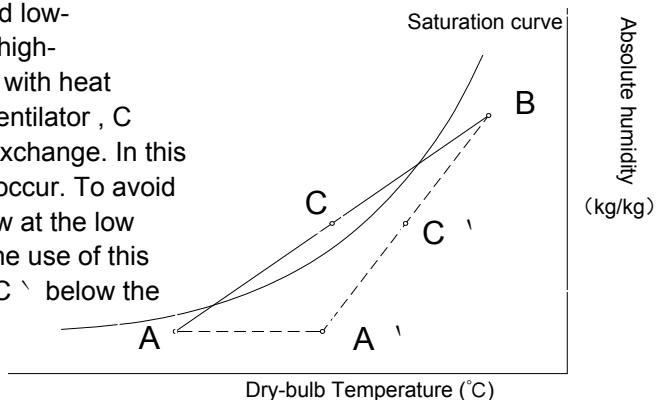


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Special Attentions

- Service conditions
For outdoor operation: temperature: $-10^{\circ}\text{C} \sim 45^{\circ}\text{C}$, relative humidity: $\leq 85\%$
For indoor operation: temperature: $-10^{\circ}\text{C} \sim 45^{\circ}\text{C}$, relative humidity: $\leq 85\%$.
- Please do not use the Heat Recovery Ventilator in too smoky or humid places (mechanical processing plants, kitchens, bathrooms, etc.).
- Please do not use the Heat Recovery Ventilator in the places with high temperature or BBQ areas with open fire, and avoid those installation positions with temperature over 45°C .
- Keep away from the places easily producing acid, alkali, organic solvents, paints and other harmful gases or gases containing corrosive compositions.
- For heating operation in winter, the places with relatively high humidity may have condensation or frosting.

Make curves for temperature and humidity saturation of cold area in winter, as shown on the right. The psychrometric is marked with high-temperature suction condition B and low-temperature suction condition A, if high-temperature airflow B is conducted with heat exchange by this Heat Recovery Ventilator, C shows the air condition after heat exchange. In this case, condensation or frosting will occur. To avoid this problem, please heat the airflow at the low temperature side A to A' before the use of this Heat Recovery Ventilator to keep C' below the saturation curve.



- The following table shows the humidity at the condensation critical point under several possible air conditions when the indoor temperature is 30°C . If the indoor humidity is higher than this condition, condensation may occur. Long-time condensation may cause droplets or outflows.

Outdoor temperature(DB)	Indoor air temperature (DB)	Indoor relative humidity (%)	Outdoor absolute humidity (kg/kg)
0°C	30°C	47	0.0125
-5°C	30°C	41	0.0105
-10°C	30°C	34	0.0090

Attentions

- The Company is committed to the continuous improvement of products, and specifications are subject to change without notice.
- The Company shall disclaim any responsibility for accidental damage caused by the operation of the product in a particular environment.
- This equipment can only be used as a fresh air ventilator.
- Any part of this manual shall not be copied without permission or authorization.
- Bold texts (danger, warning and attention) are used to indicate the degree of danger.

The definitions of bold texts and their degree of danger are described below.

Dangers

: direct risks that can cause serious physical injury and even death.

Warnings

: danger or unsafe conditions that may cause serious physical injury or even death.

Attentions

: danger or unsafe conditions that may cause mild physical injury, product and property damage.

Notes : tips and instructions to operation, maintenance and repair.

- If you have any questions, please contact the dealer or the service center designated by the Company.
- As 'a device which is not accessible to the public', the installation height of the Heat Recovery Ventilator shall not be less than 2.5 meters.
- This manual shall be considered as a part of the Heat Recovery Ventilator. Please keep it carefully.
- In order to protect the environment, please don't throw the product at will. The Company provides recycling services as well as replaceable parts according to relevant national regulations and standards.

Dangers

- Please do not start the installation (including wiring) before reading the installation manual. An electrical fault or fire may be caused if an illegal operation is performed.
- Avoid water splashing into the machine. This is an electrical product, and serious electrical failure will occur after water splashing.
- Do not open the cover of the machine without disconnecting the main power supply, otherwise it may cause serious safety accidents.
- Do not touch or change the safety device of the machine without permission, or it may cause serious accidents.

Warnings

- Please do not use aerosol within 1 meter of the machine accessories, for example: insecticide, paint, hair spray or other flammable gases.
- If the circuit breaker works frequently, please stop the system and contact local dealer or customer service.
- Make sure that the ground wire is securely connected. If the machine is not properly grounded, it may cause electrical failure. Please do not connect the ground wire to the gas pipe, water pipe, lightning rod or telephone ground wire.
- Prevent rats or other small animals from damaging the wire harness and electrical components. If the unprotected part is bitten, it may cause a fire.

- Make sure the machine is fixed well during the installation; otherwise, the air conditioner may fall and dump, causing damage to the machine or injury to the personnel. Please follow the installation manual and relevant regulations/standards for electrical construction, otherwise, electrical failure or fire will be caused due to insufficient capacity or incompliance to specifications.
- Use specified and correct wire harness, or an electrical failure or fire will occur.

▲Attentions

- Do not tread on the machine or place unnecessary items on the machine.
- Do not place additional materials on/into the machine.

Arrival Inspection

- Check the machine for shipping damage after receiving it.
If any damage is found on the surface or inside, report to the transport company in written form immediately.
- Check the product model, electrical parameters (power supply, voltage, and frequency) and accessories to determine whether they meet the requirements.
Standard operation of the machine will be described in this manual.
It is not recommended to use the machine beyond the conditions stated in this manual.
Any problem or failure, please contact your local agent.
Hisense Hitachi shall not be liable for any changes of the equipment without the written consent of Hisense Hitachi.

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1. Safety Instructions



Warnings

- Please ask dealers or qualified personnel to install and never conduct installation arbitrarily. Improper installation can cause water leakage, electric leakage, fire or other accidents.
- Installation must be carried out according to installation instructions. Never refit the unit arbitrarily.
- Install the machine in the place with sufficient support. The unit may fall or cause physical injury if the bearing strength is insufficient or the installation is improper.
- Prevent the exhaust from entering the external air intake, which can cause indoor air pollution and endanger people's health.
- Make sure that there is an individual power supply circuit for the Heat Recovery Ventilator and all electrical installation is performed by the professionals in accordance with local codes and installation instructions.
- Please use specified parts and components for the installation. Otherwise, it may cause the machine to fall, water/electric leakage or a fire.
- Fully consider the impact of strong winds, typhoons and earthquakes and reinforce the installation to avoid the machine falling and more accidents.
- Make sure all the wires are securely connected and special wires have been used, and no external force is applied to the connecting terminals and wires.
- When connecting the power supply, wire controller circuit and transmission line, confirm the connection, so that the electric box cover is installed firmly. Improper connection can cause electric shock, fire or terminal overheating. Be sure to install the earth leakage circuit breaker. If the earth leakage circuit breaker is not installed, it may cause electric shock or fire.
- Please do not touch the electrical parts with hands to avoid electric shock.
- When a fire occurs, please cut off the power supply immediately.

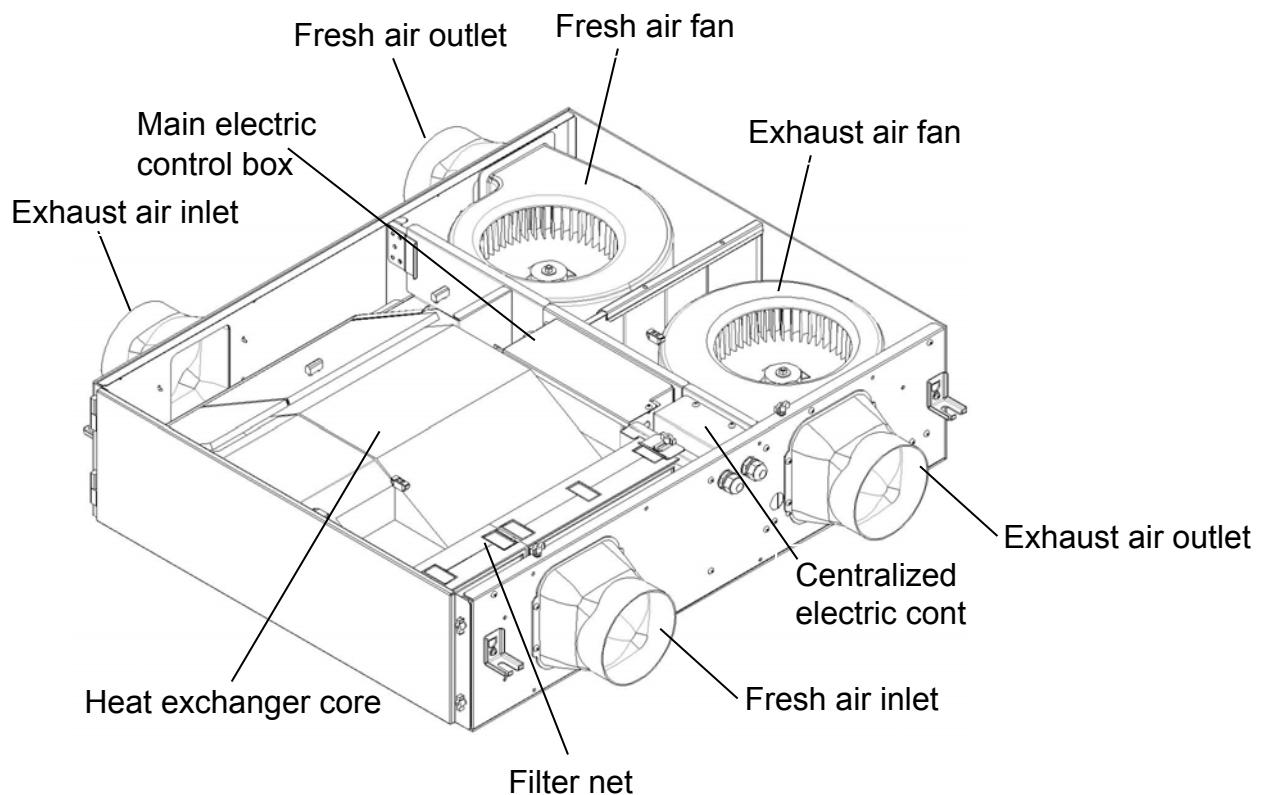


Attentions

- Within 3m of strong electromagnetic radiation source (such as medical equipment), please do not install the Heat Recovery Ventilator, remote controls or cables. Incorrect connection or installation may cause overheating or a fire.
- Please keep the power cable of the Heat Recovery Ventilator over 1m from the TV and radio to prevent signal interference or noise.
- The lower slope must be guaranteed when the outdoor air duct is installed to prevent rainwater from flowing into the machine. Improper installation may cause water inflows, furniture damage, electric shock or a fire.
- Wrap the outdoor pipes and gas pipes with heat insulation materials to prevent condensation. Confirm snow protection measures. If there is no snow protection, the snow will enter the ventilation pipe, causing machine damage, electric shock or a fire.
- Small bugs may enter the room through the vents, so effective measures shall be taken according to the actual conditions (such as installation of filters) to prevent bugs from entering the room.

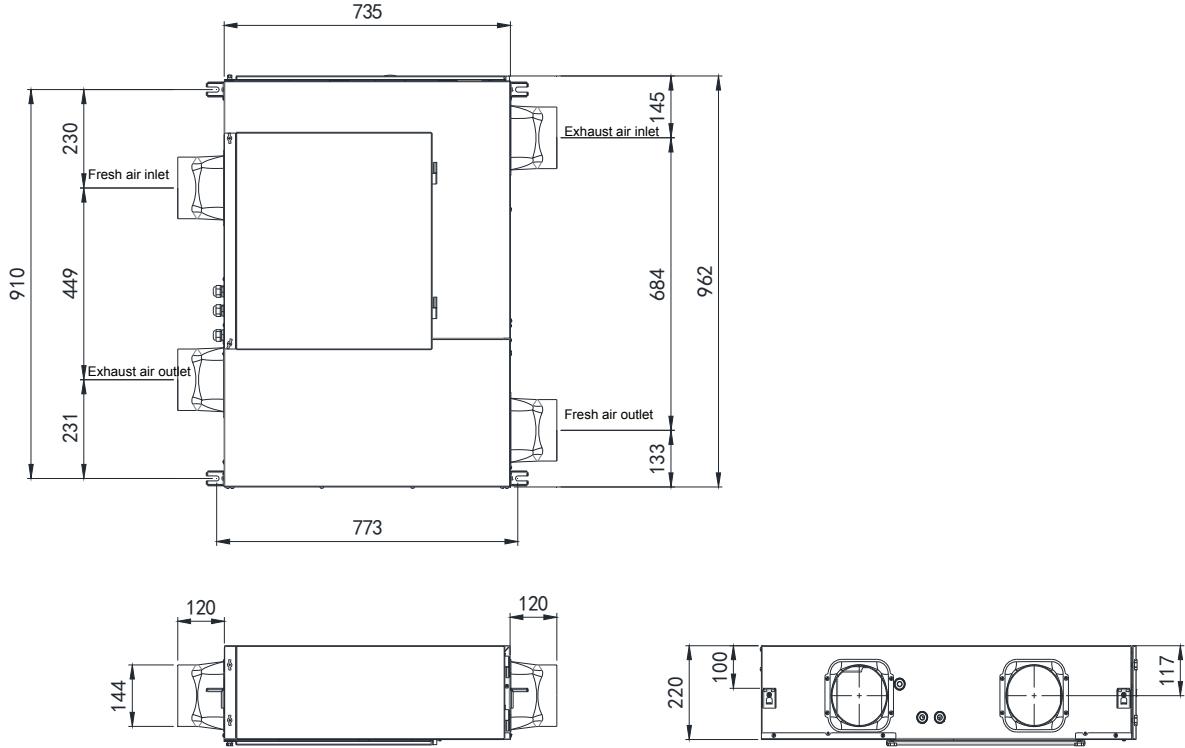
2. Structures

2.1 Structure of the Product (schematic diagram)

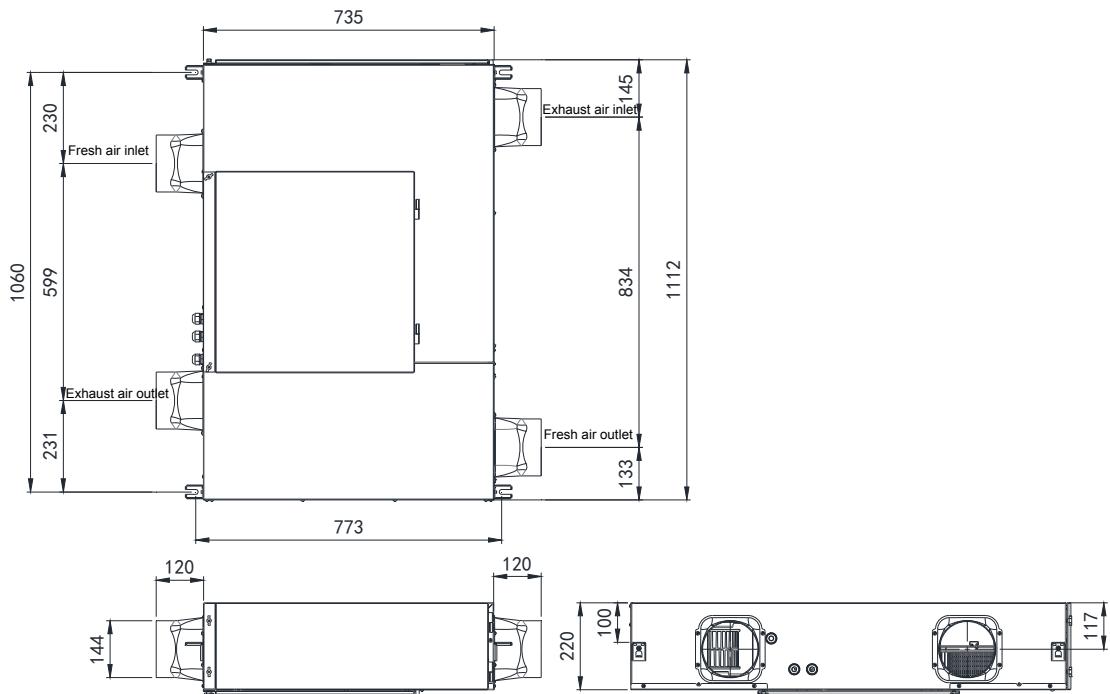


2.2 Dimensions

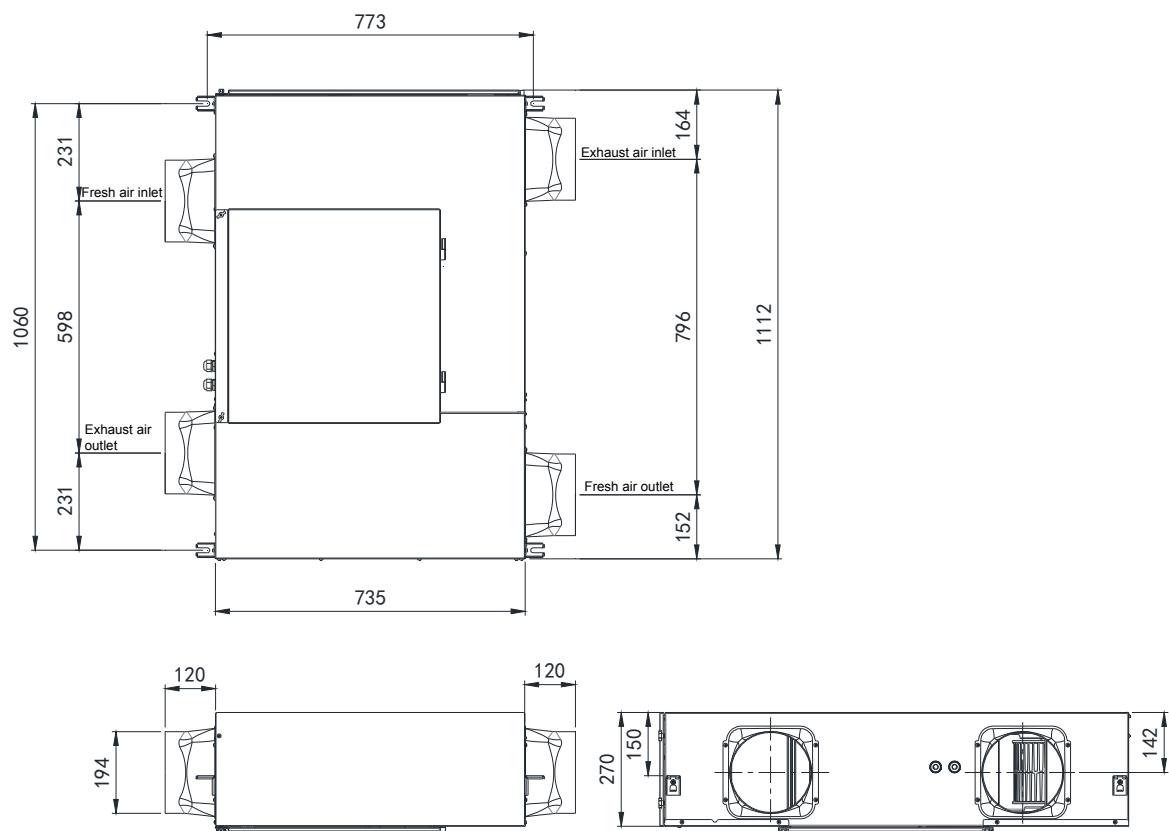
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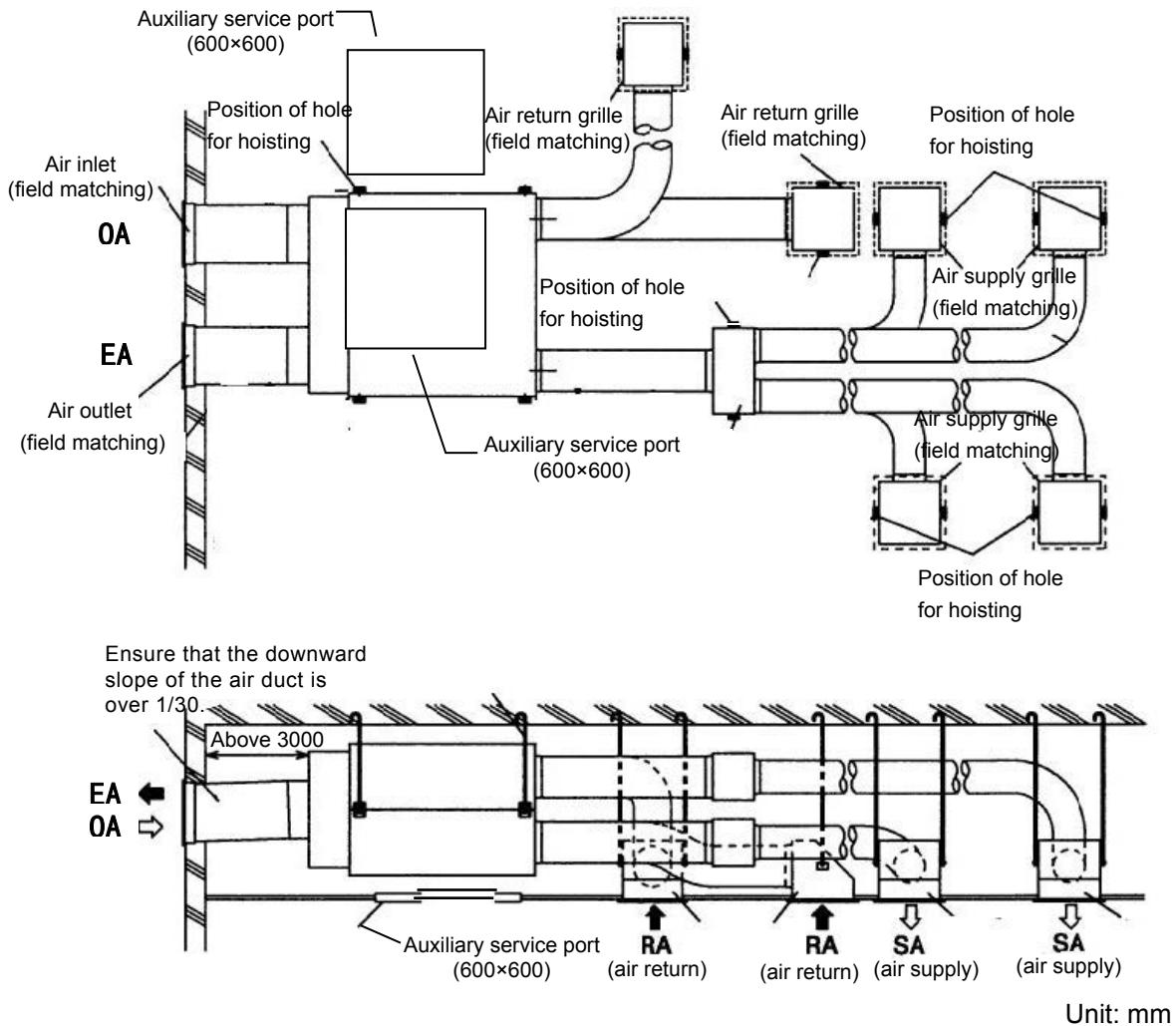
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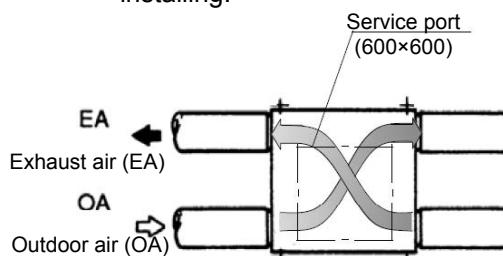
JDTH050H0NAGQF、JDTH050H0NAGQ:



3. An Installation Example



※ According to the on-site conditions, reversed installation is allowed for 180° rotation. The body of the Heat Recovery Ventilator shall be kept horizontal before installing.



⚠️ Attentions

- The models with fresh air PM2.5 filtering function or internal circulation function shall not be installed reversely.
- For those models without fresh air PM2.5 filtering or internal circulation function, horizontal installation with 180° rotation may cause worse condensation. Please conduct the installation carefully!
- Please avoid turning upside down or side stand installing; otherwise, the service life of parts and components will be shortened and noise, maintenance difficulties may occur.

4. Installation Methods

4.1 Attentions

(1) Standard accessories

Check to make sure the following accessories are shipped with the Heat Recovery Ventilator. If the accessories are not shipped with the machine, please contact the dealer.

Parts	Quantity	Purposes
Gasket	8	For fixing the hook
Wire controller	1	
Installation and Maintenance Manual	1	

(2) Tools and instruments required for installation

No.	Tools	No.	Tools	No.	Tools
1	Arm saw	5	Sleeve	9	Wire cutter
2	Screw driver	6	Level	10	Current meter
3	Vice	7	Thread clasher	11	Voltmeter
4	Spanner	8	Lift (used for hoisting of the unit)	12	Tramegger



Dangers

- Specification change and modification without permission is absolutely forbidden.
- Use only power supply of single-phase. 220V~50Hz. For maintenance, point inspectio and long-term unused circumstances, please switch off circuit breaker of the power supply.
- For grounding construction, the ground wire shall not be connected with gas pipeline, water pipe, lightning rod, telephone ground wire and so on.
- Please do not insert the finger or stick into the fan or air inlet or outlet.
- Do not install the machine in the places where flammable gas leakage may occur.



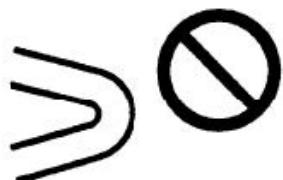
Warnings

- If it is installed outside the heat-insulating space (space close to external air conditions), the internal engine may have condensation in winter, which might easily cause electric shock or water dripping.
- Please pay attention to the wind wheel rotation caused by the contrary wind in the air duct. Although the power is cut off, being entangled in the rotating part to cause injury is possible.
- Do not conduct the installation on the low-strength ceilings. If the support strength cannot be determined, please reinforce the installation area with sufficient support.



Attentions

- Installation shall be carried out in strict accordance with the installation instructions.
Do not set the indoor return air inlet at the places that can absorb high-temperature or high-humidity air.
- Install anti-bird net or similar items at the scavenge port.
Wiring shall be conducted according to the technical standards of electrical equipment and indoor wire regulations.
- Install the machine inside the heat-insulating space (outside of the heat-insulating space).
- The outdoor air duct shall incline towards the outer side at installation.
When the body of the machine is installed, please avoid those places where dust may enter through the air duct.
- Do not install the body of the machine and indoor return air inlet in the kitchen or other smoky places.
- Please install anticreeping circuit breaker when necessary according to the position of special circuit breaker.
- The following situations should be avoided for the installation of pipelines:
 - (1) Overbending



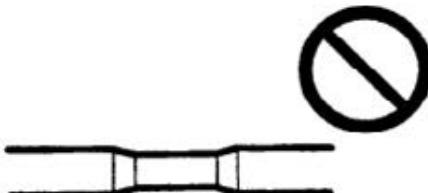
(2) Multi-step bending



- (3) Bending near the air vent



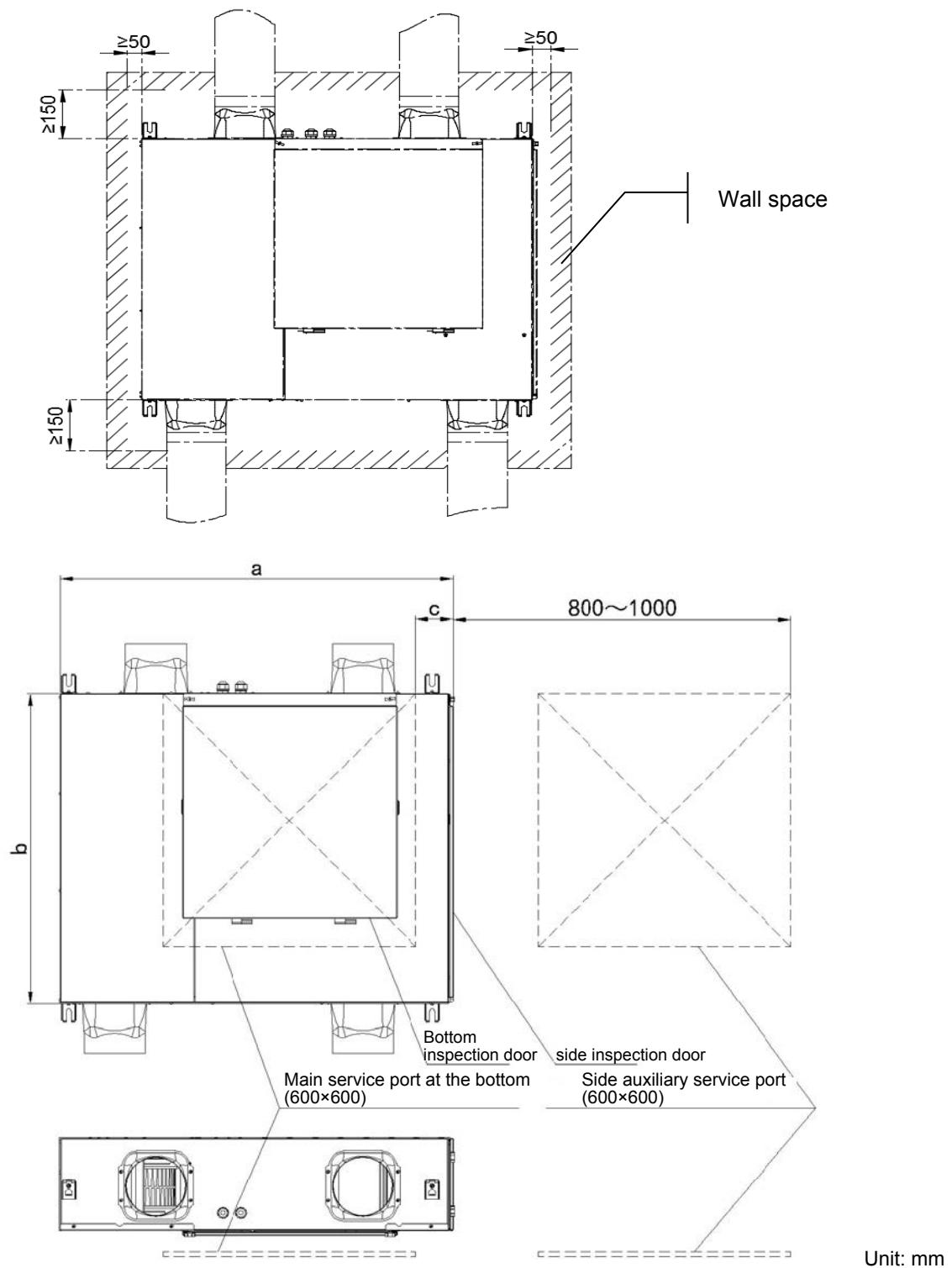
- (4) Reduce the diameter of the air duct



- The parts to be used for installation must be specified parts (including accessories).
- Power cables and connecting lines should be firmly installed. The power supply cover should be compacted. Do not tilt the power supply cover.
- Do not reverse the body or apply excessive load on the body like air duct during construction.
- May not be used for air change of open burner (heating).
When gas or oil is used in the room for heating, special air regenerating device is needed.
- For moving in and out, please pay attention to gravity and weight. Please use gloves or other protective tools during construction.
- Do not open the door and window frequently during the operation.

4.2 Initial Inspection

- Install the Heat Recovery Ventilator in the space for easy operation and maintenance, as is shown below:



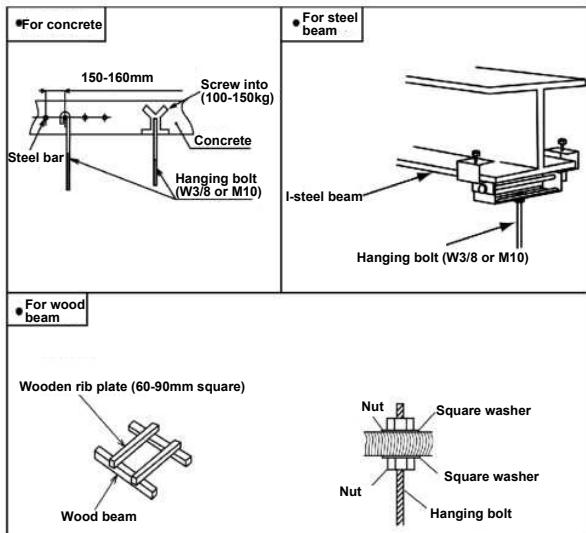
Model	a	b	c
JDTH015H0NAGQF, JDTH020H0NAGQ	950	735	77
JDTH025H0NAGQF, JDTH030H0NAGQ	950	735	77
JDTH035H0NAGQF, JDTH040H0NAGQ	1100	735	225
JDTH050H0NAGQF, JDTH050H0NAGQ	1100	735	225

- There shall be no obstructions in the air supply and air return ducts of the Heat Recovery Ventilator to prevent air circulation.
- Do not install the Heat Recovery Ventilator in the kitchen to prevent oil gas or mist from entering the unit.
Heat exchange performance of the unit will be reduced, and thermal insulation and plastic parts may be damaged for oil-attached Heat Recovery Ventilator .
- When the Heat Recovery Ventilator is installed in a hospital or close to medical equipment with electromagnetic wave, please pay attention to the following issues:
 - (A) The Heat Recovery Ventilator shall not be installed in the places where the electric cabinet, remote control and wire controller are directly exposed to electromagnetic wave.
 - (B) The Heat Recovery Ventilator shall be kept as far as possible from the electromagnetic radiation sources, not less than 3m.
 - (C) The wire controller shall be installed in an iron box and its wires are laid in iron pipes. The iron box and iron pipes shall be grounded.
 - (D) When the power supply has clutter, a filter shall be installed to eliminate the clutter.

4.3 Installation Process

4.3.1 Hanging Bolt

- (1) Carefully design the piping, wiring and maintenance, and select appropriate installation location and direction.
- (2) Install hanging bolts, as is shown in Figure 4.2:



4.3.2 Body Installation

Body installation is shown in Figure 4.3.

Preparation of parts at the installation site:

Hanging bolt	4-M10 or W3/8
Nut	8-M10 or W3/8
Washer	8-M10 or W3/8

Hanging bolt (4-M10 or W3/8)
(prepared at the installation site)

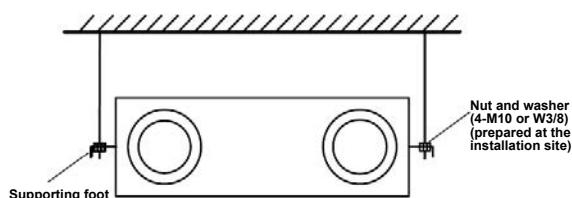


Figure 4.3 Body Installation

(1) How to install hanging bolts and nuts

As is shown in Figure 4.4, put the nuts on the four bolts.

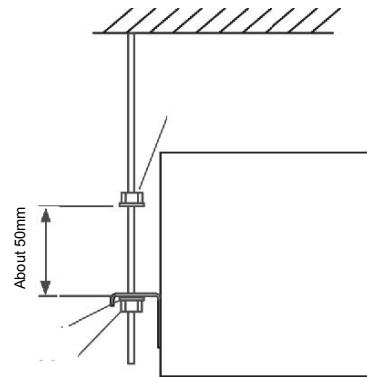


Figure 4.4 Hanging Bolts and Nuts

(2) Body Installation

- As is shown in Figure 4.5, place the left bracket on the nuts and washers of the hanging bolts.
- Make sure that the left bracket is properly placed on the nuts and washers, and then place the right bracket of the Heat Recovery Ventilator on the nuts and washers.
(When installing the body, move the hanging bolts away slightly).

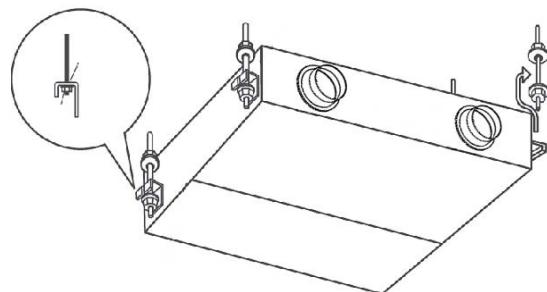


Figure 4.5 Hoisting Methods

4.3.3 Horizontal adjustment of the Heat Recovery Ventilator body

(1) Check and confirm that the top is flat, and then measure the maximum top gradient.

(2) After adjustment, tighten the hanging nuts. Thread-locking agent must be applied to prevent loosening.



Attentions

During the installation, please cover the machine with plastic to keep it clean.

4.3.4 Connection of Air Ducts

Air outlet of the unit is provided with flanges, which can be connected with air ducts.

Flexible ducts shall be used at the air supply side (indoor air supply). The air ducts shall be conducted with heat preservation and sound insulation treatment;

otherwise it may cause condensation and increase noise.

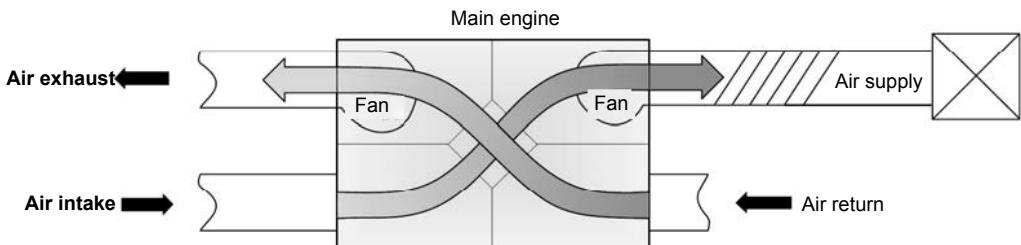


Figure 4.6 Connection of Air Ducts

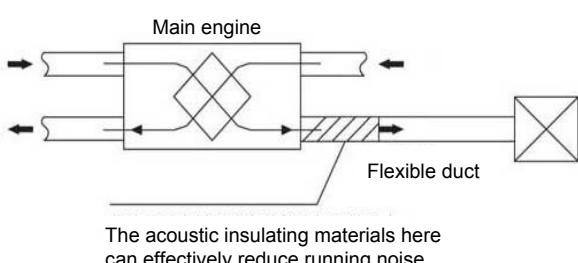


Attentions

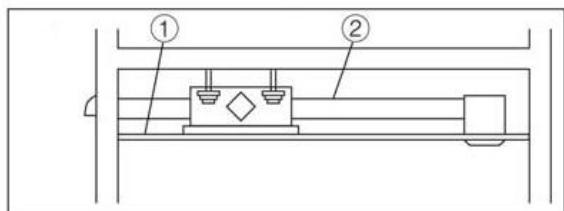
- To prevent air leakage, connection flanges of the air ducts and joints shall be wrapped with aluminum foil.
- After connection, the outer layer of the flange rings shall be conducted with insulation treatment to prevent condensation.
- Install two outdoor air ducts at a certain inclination (not less than 1/30) to prevent rain backflow (refer to the Installation Example).
- If the temperature and humidity in the ceiling are always high, please install ventilation equipment in the ceiling.
- When the air ducts pass through metal lattice windows, electric circuit pipes or metal reinforced wooden walls, the electric insulation protection must be made on air ducts and wall surface.

4.4 Measures to reduce running noise

- (1) Acoustic insulating materials are often used in the air ducts to reduce running noise around the air supply outlet of the main engine.
- It may reduce more running noise by applying acoustic insulating materials at the place where air ducts are close to the body side instead of suction and discharge air grille..



(2) Adopt the following measures to reduce noise



- ① Use acoustic (low acoustical) board ceiling.
- ② Place noise reduction materials under running noise source.

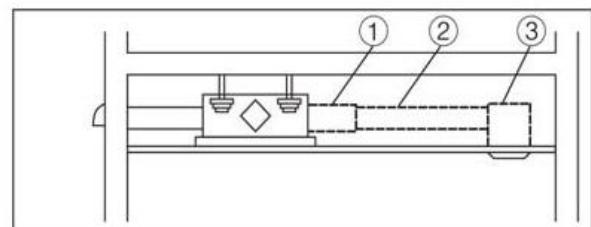


Attentions

- Some acoustic board ceilings are not effective for low-frequency running noise.
- When using sheet-type acoustic insulating materials, the body must be wrapped completely.
- Sheet-type acoustic insulating materials shall not be used for some models because they may cause adverse effects on heat radiation ventilation.

(3) Reduce running noise from air inlet (outlet)

- Use the following recommended accessories to reduce running noise from main engine installed on the ceiling .



- ① Noise elimination box (silencer)

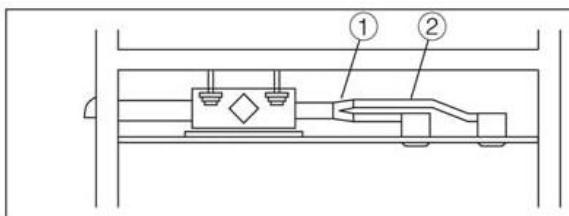
- ②.Flexible duct
- ③.Silencer air supply grille

 Attentions

- Do not connect spiral ducts and aluminum corrugated pipes directly to the air outlet of the main engine.
- It may be more effective to reduce noise with both flexible ducts and silencers.

(4) Layout of Air Duct Shunts

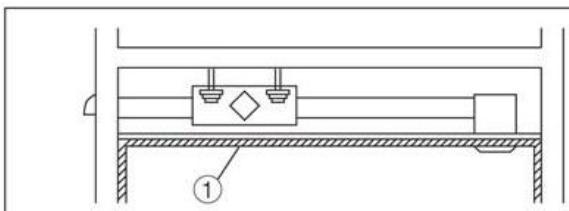
- Make wind flows through two air ducts so that the wind speed is reduced before reaching the air supply outlet.



①.Noise elimination box (silencer)

②.Flexible duct

- Apply acoustic materials to the interior walls to effectively reduce noise.



5.Wiring

5.1 General Inspection

(1) The electrical devices (power switch, circuit breaker, wire, line pipe connection and terminal) used in the installation site have been selected according to the parameters provided in Table 5.1, and make sure the devices are conform to national electrical standards.

(2) Check whether the supply voltage is kept within $\pm 10\%$ of rated voltage. If the supply voltage is too low, the system cannot start.

(3) Check the power distribution capacity.

(4) Make sure it is grounded.



Warnings

- Before wiring or periodic inspection, switch off the main switch of the Heat Recovery Ventilator for more than 3 minutes.
- Before wiring or periodic inspection, make sure that the Heat Recovery Ventilator fan is stopped.
- Wires, drainage pipes, electrical appliances and other components shall be protected to prevent damage from rats and other small animals. Rats may bite the unprotected devices and cause a fire.
- Please be sure to install the earth leakage circuit breaker. Electric shock or a fire may occur without the earth leakage circuit.
- The power terminal board of the unit is

strictly prohibited to be connected with power cables. The power distribution box can be used to expand power distribution. Pay attention to the calculation of wiring capacity, since too small wiring capacity may cause a fire easily.

5.2 Wiring

The position of the substrate of the Heat Recovery Ventilator is shown in the Figure 5.1:

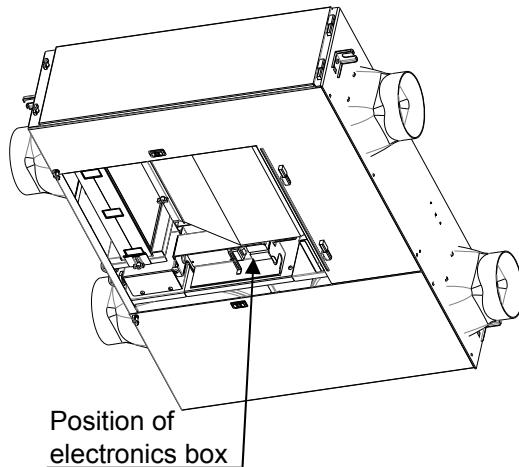


Table 5.1 Electrical Parameters

Model	Power supply			Voltage		Indoor fan	
	VOL	PH	HZ	Max	Min	RNC	IPT
JDTH015H0NAGQF	220	1	50	242	198	0.60	120
JDTH020H0NAGQ	220	1	50	242	198	0.60	125
JDTH025H0NAGQF	220	1	50	242	198	0.80	165
JDTH030H0NAGQ	220	1	50	242	198	0.80	170
JDTH035H0NAGQF	220	1	50	242	198	1.00	210
JDTH040H0NAGQ	220	1	50	242	198	1.10	235
JDTH050H0NAGQF	220	1	50	242	198	1.60	330
JDTH050H0NAGQ	220	1	50	242	198	1.60	320

RNC: working current (A)

IPT: input power (W)

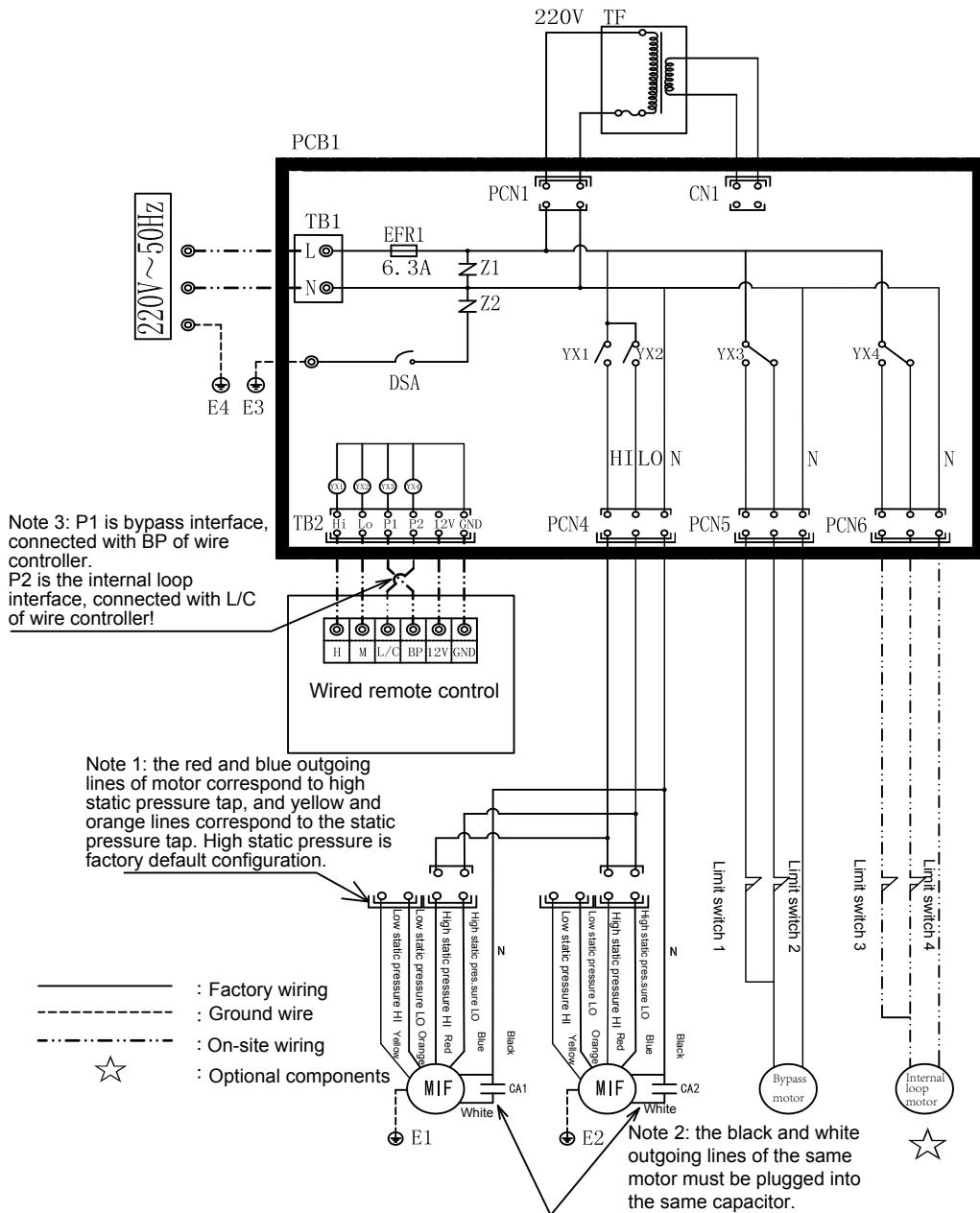


Figure 5.2 Electric Wiring Diagram

The minimum diameter of the wires and power cables connected on site

Model	Power supply	Maximum current	Diameter of power cable	Diameter of wire harness
JDTH015H0NAGQF~JDTH050H0NAGQF JDTH020H0NAGQ~JDTH050H0NAGQ	220V~50Hz	5A	2.5mm ²	0.75mm ²
Total current (A)	Line type (mm ²)			
i≤6	2.5			
6<i≤10	2.5			
10<i≤16	2.5			
16<i≤25	4			
25<i≤32	6			
32<i≤40	10			
40<i≤63	16			
63<i	※1			

Notes:

- (1) Site wiring shall be conducted in accordance with local laws and regulations, and all wiring operations must be carried out by qualified professionals.
- (2) Dimensions of the power cables shall be subject to relevant standards.
- (3) When the junction box is used for power cables connection, current shall be summed up and wires shall be selected based on the requirements listed in the above table.
- (4) The weight of power cables shall not be less than that of No.57 neoprene sheathed wire specified in GB5013.1 and the power cables shall made in cooper.
- (5) The specifications of weak current communication circuit wires shall not be lower than RVV (S) P shielded wire or equivalents and the shielding layer shall be grounded.
- (6) Switches shall be installed between the power supply and unit to ensure all-pole disconnection, and the electric shock distance of this switch shall not be less than 3mm.
- (7) If the power cables are damaged, please contact the dealer or professionals from the designated maintenance department in time for repair and replacement.
- (8) For the installation of power cables, the ground wire shall be longer than the current carrying conductor.

6. Commissioning

Commissioning shall be carried out in accordance with the installation and maintenance manual.

- (1) After the whole unit is hoisted and adjusted, power supply shall be connected according to the wiring diagram and the intelligent switch shall be switched to any of high, (middle) and low and the unit starts to work at this time. The user can switch and shift according to the indoor air pollution condition.
- (2) For intelligent shifting, stay 2-3 minutes between each switch until the fan is running properly so that to extend service life of the motor.
- (3) When abnormal situation happens, please switch the dedicated circuit breaker to [OFF] immediately and confirm the wiring again.

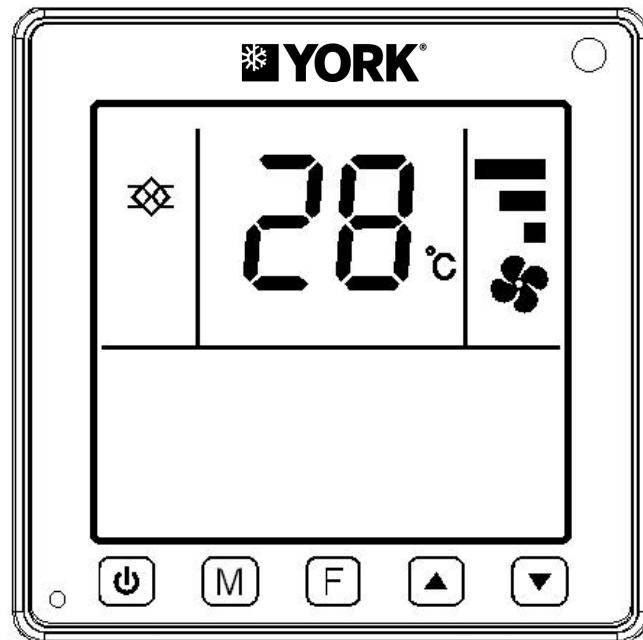
7. Protection and Control Devices

Heat Recovery Ventilator

Air volume of the unit (m ³ /h)		150~500	
Temperature controller on the fan motor of the unit	Switch off Switch on	°C °C	130±5 83±15
Capacity of fuse on the control loop of the unit		A	6.3

8. Instructions for Wire Controller .

8.1 User's Interface



8.2 Character Description

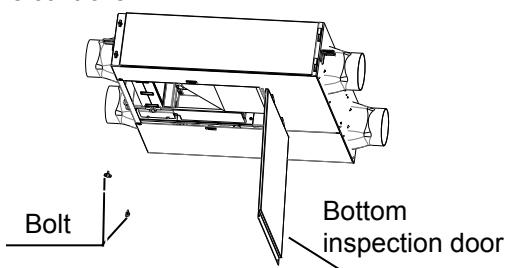
- (1) : power supply, controlling the start-up and shutdown of the unit.
- (2) : mode, adjusting the current mode, including bypass mode, Heat Recovery mode, internal loop mode, air supply mode, exhaust mode, automatic mode (depending on the model, some modes may not be valid).
- (3) : wind speed, adjusting the current air volume to high and low.
- (4) : functions, for some function settings, such as timing function and so on.
- (5) : temperature, the temperature display area which is not adjustable.

Notes:

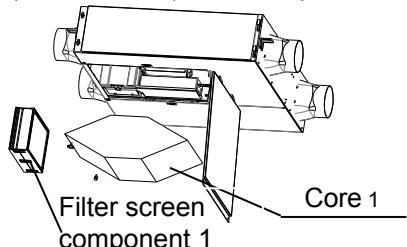
For detailed function display and operation, please refer to the instructions of wire controller.

9. Care and Maintenance

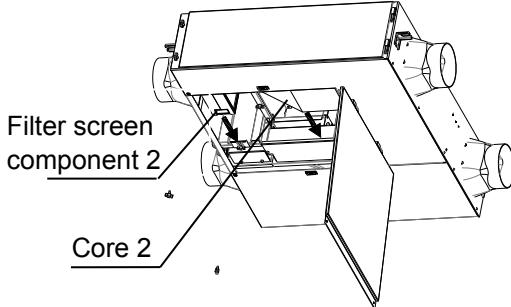
- After a period of operation, air supply might be fail at the air outlet without proper cleaning since indoor or outdoor dust is adsorbed on the surface of pre-filter which may block the mesh. (clean every 1000 hours)
- Some models may be provided with bamboo charcoal filter screens and PM2.5 filter screens which cannot be cleaned and shall be replaced. Please buy the dedicated filter screens provided by our company. (replace every 1000 hours).
- The heat exchanger core is strictly prohibited to be washed with water. The core can only be pulled out and a dust collector is used to clean the dust on it. (maintenance shall be conducted every 3000 hours)
- Remove the screws on the inspection door of the unit, open the inspection door and pull out the filter screen. The pre-filter can be washed with clean water and brush to remove the dust from the surface. After drying, install the pre-filter reversely. For models with bamboo charcoal filter screen and PM2.5 filter screen, the bamboo charcoal filter screen and PM2.5 filter screen can be replaced according to the needs. After the replacement is finished, push the filter screen elements into the unit and install the inspection door. Then the unit can be used again.
- The wire controller will automatically indicate of maintenance for the filter screen and core. After the completion of the maintenance, please fill in the form and manually reset the maintenance prompt of the wire controller.



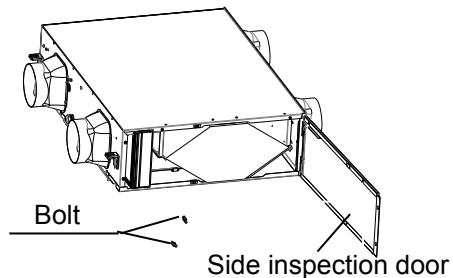
(1) Remove the fastening screws from the inspection door with a screwdriver and open the inspection door (bottom inspection door).



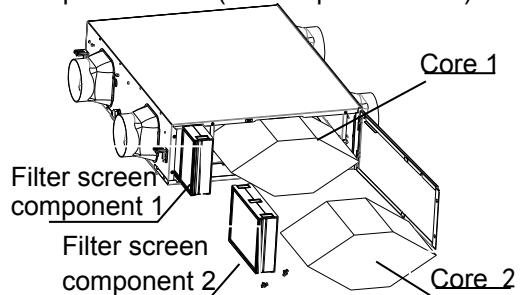
(2) Remove the fixed plate and take out the core 1 and filter screen component 1 (bottom inspection door).



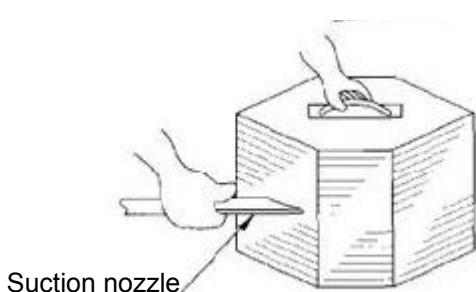
(3) Pull out the core 2 and filter screen component 2 along the arrow direction (bottom inspection door).



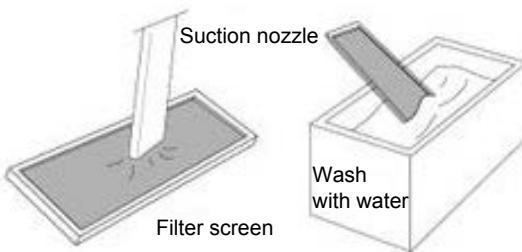
(4) Remove the fastening screws from the inspection door with a screwdriver and remove the inspection door (side inspection door).



(5) Pull out the core 2, filter screen component 2, core 1 and filter screen component 1 in proper order (side inspection door).

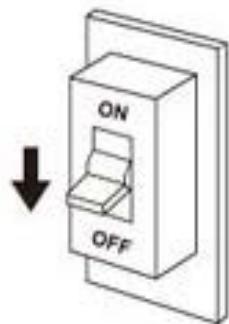


(6) Clean dust on the core with the dust collector.

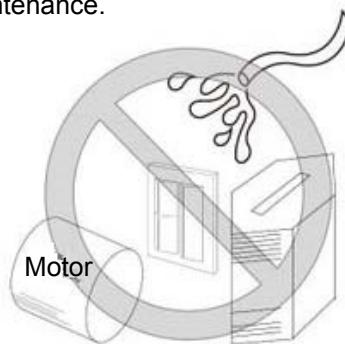


- (7) Clean the dust on the pre-filer with a dust collector, and then clean it with water and brush and finally dry. Replace the bamboo charcoal filter screen and PM2.5 filter screen when necessary.

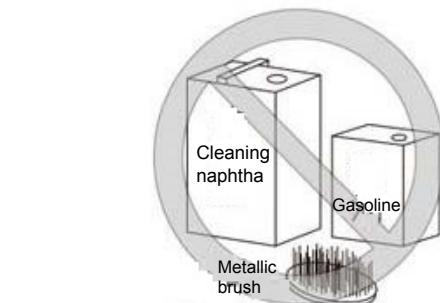
 **Attentions**



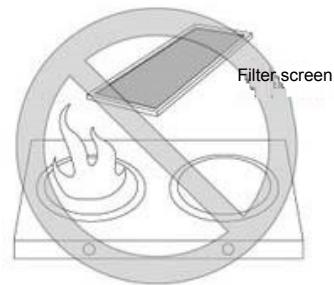
- (1) Make sure to switch off the machine and special circuit breaker before care and maintenance.



- (2) Motor, switch, heat exchanger core, bamboo charcoal filter screen and PM2.5 filter screen shall not be cleaned with water.



- (3) It is forbidden to use the above items.



- (4) Core, filter screen and others shall not be dried with open fire.

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