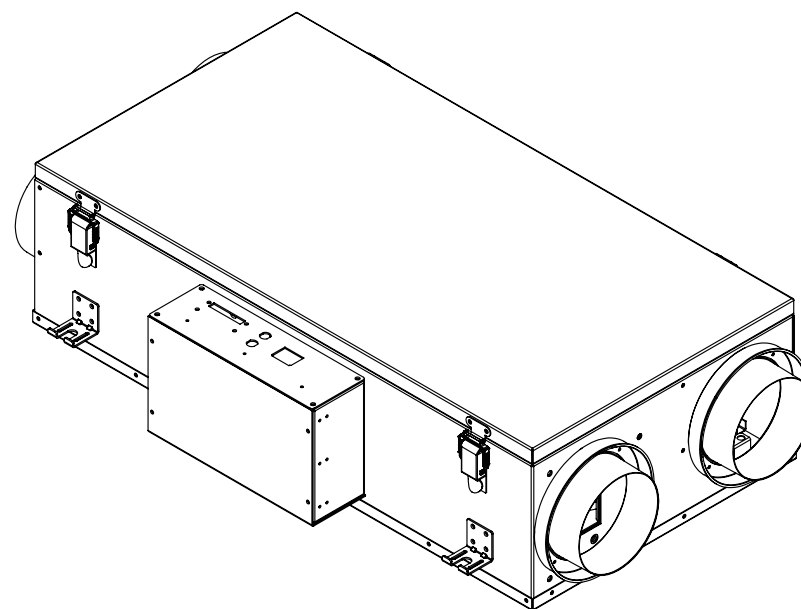


Energy recovery ventilator

Installation Operation Instructions



Catalog

1/Demension and parameter	PO2	7/Installation diagram	PO9
2/Features and component	PO3	8/Installation acceptance standards	PO10
3/Safety precautions	PO4	9/Instructions	PO11
4/Installation indroduction of the host machinet	PO5-6	10/Maintenance methods	PO12-13
5/Installation introduction of the air vent	PO7	11/Warranty introduction	PO14
6/Safety precautions in installation	PO8	12/After-sale service	PO14

Warranty

1、The warranty is 1 year for whole unit and 2 year for the motor

Any product broken or damage cause by its own problem, ADEN will offer the repair service for free or replace for free.

Beside the warranty days, we continue to provide life-long maintenance services mainly for the power supply and some core components.

Even if within the warranty period, if the following occurs, certain maintenance costs will be charged:

- ◆The malfunction and damaged caused by incorrect use, the unauthorized repairs and alteration.
- ◆The damage caused by fire, flood, abnormal voltage, other natural disasters and secondary product damage.
- ◆The product malfunction caused by the fall and transportation failures after purchase.
- ◆The product malfunction caused by Not in accordance with the user manual operation.
- ◆The malfunction and damaged caused by the other barriers (man-made factors or external device).

Service

After-sale service :

- 1、 Provide consultation service of lifelong maintenance for customers..
- 2、 Perfect after-sale service system and adequate spare parts are available to ensure timely and effective solution for customer after-sale problems.
- 3、 Aden provide commitment of one year guarantee repair for the complete machine, three-year guarantee repair for motor,and lifelong paid maintenance service.

Service Disclaimer

The accident and damage is caused by improperly installed,we do not accept any responsibility

Maintenance Method

Filter maintenance method

- 1、Unlock the hanging chain under the access panel,make the panel upward
- 2、The cleaning method of indoor side filter

(1) Please hold the indoor side filter and abstract it horizontally(Picture ①)

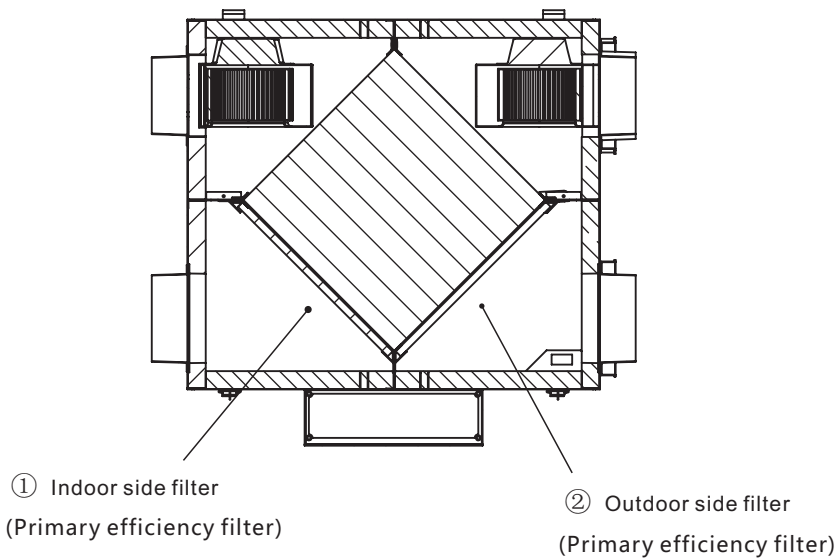
(2) Please use a vacuum to suck the attached dirt and dust away. The safe period is depend on the life span of the indoor air filter

(3) The installation of indoor side filter is following the reversed steps
- 3、The cleaning method of outdoor side filter

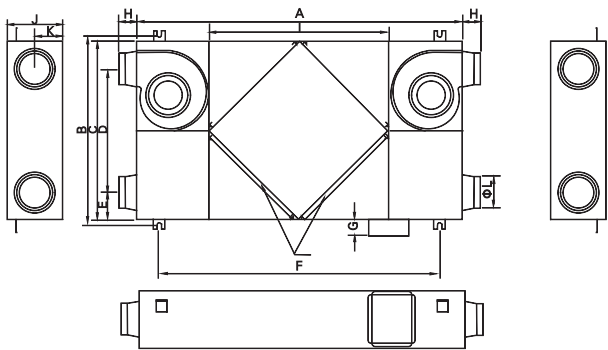
(1) Please hold the outdoor side filter and abstract it horizontally(Picture ②)

(2) Please use a vacuum to suck the attached dirt and dust away. Do not use water for cleaning, to avoid the performance degradation

(3) The installation is following the reversed steps, please noticed that the derection should follow the label.



Dimension and component



Dimension Table (mm)

Model	A	B	C	D	J	L
AQR-10DS-150A	735	497	415	245	188	95
AQR-10DS-250A	737	488	409	249	185	98
AQR-15DS-350A	704	590	514	307	228	147
AQR-15DS-500A	700	576	496	276	268	147

Performance Parameter

Model	Voltage(V~)	Frequency(Hz)	Power(W)	Airflow			Static Pressure(Pa)	Sensible Heat Efficiency		Enthalpy Efficiency		Noise(dB)	Weight(Kg)
				(H)	(M)	(L)		cooling load	heating load	cooling load	heating load		
AQR-10DS-150A	220	50	62	150	126	100	100	58	79	60	71	58	26
AQR-10DS-250A	220	50	150	210	175	160	128	61	79	60	69	61	26
AQR-15DS-350A	220	50	250	350	300	210	152	52	78	60	69.5	63	35
AQR-15DS-500A	220	50	350	450	390	330	165	57.5	72	58	68	65	35

Features

- 1.Energy saving

Effective recovery of heat loss by ventilation, it can save costs of the air-conditioner.
- 2.Regulating function

When refrigeration, reduce the external air humidity,make the air humidity from outside is close to room temperature

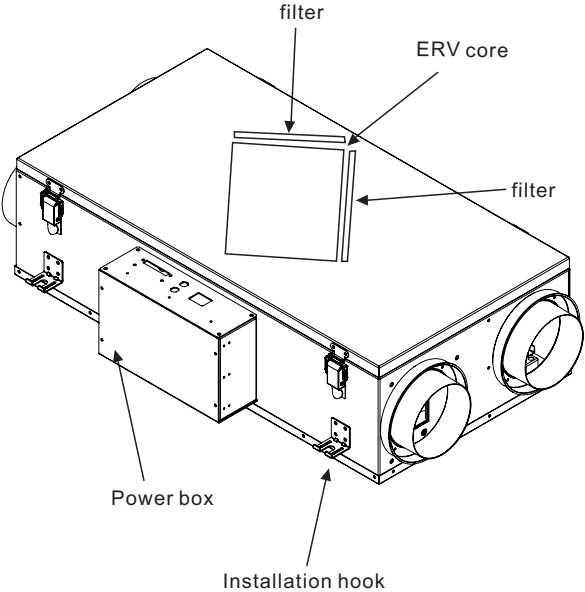
When heating,increase the external air humidity,make the air humidity from outside is close to room temperature
- 3.Comfort ventilation

Indoor air temperture almost no change.The air outlet and air inlet is working at the same time,even in a sealed room,It also can ventilate stabilized
- 4.Noise insulation

The whole unit has Noise insulation.Bring you a silent environment
- 5.Function of filter

Primary efficiency filter:filtrate particles, such as hair, paper, pollen etc. HEPA filter:filtrate PM2.5,formaldehyde and Benzen etc.and with activated carbon.

Name of each part



Fault clearance

Judgment and disposal methods when exception occurs

Situation	Solution
<ul style="list-style-type: none">● Do not start when power on● No air come out	<ul style="list-style-type: none">● Check for tripped breaker .● whether the blackout● If the filter was clogged by dust(Need maintenance)

Maintenance methods

The maintenance for the whole unit

- * When the ERV/HRV is used for a long time,the filter will be dirty and clogged by dust,it may decreasing the air volumn,impact the ventilation,increase the noise.Please clean the filter periodical.
- * When in hostile environment (a higher number of dust) . It may decreasing the air volumn and filtration efficiency To keep the performance, increase the frequency of cleaning and replacing of the filter.
- * Cut off the power when maintenance.
- * Please notice the fall off of the acomponent

Tips:Fix well the ladders and remember to wear the gloves

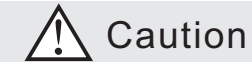
Instructions

Notice:

1、 Before starting,All debris and dust should be cleaned,check the air valve and make sure the other parts are in normal state.

2、 When the unit is starting to work,Please check the air valve in the system,keep the current limit within the rated current value.

Safety precautions



When in runtime,do not put finger or other objects into it.It may cause injury



Take care of the weight of the machine when make movement. It may cause injury



Please note the rotation of the impeller,even the power is cutoff,It is possible to be involved



Do not close the air outlet with your eyes,the dirt will blow into your eyes



Please wear gloves and protection equipments when installation. It may cause injury

Warning!Installation work must be carried out strictly in accordance with what stated above

Installation introduction of the host machine

Do not install the unit in the place with high temperature or fire
ERV/HRV can not be used under high temperature, as it may cause the filter distortion and burn out the motor

Do not install the unit in the kitchen which has a lot of smoke
Filter and ERV/HRV core is useless as long as attached the oil fume, and it is easy to cause fire.

Do not install in the place with high humidity
Such as bathroom. The machine contact with steam may cause fire and electric shock

Do not install the machine in the ceiling with insufficient strength.
strengthen the intensity when it can not be sure.
In addition, Do not install it in the place without indicated.



Installation acceptance criteria and method

Device is properly installed, piping, wiring is correct.

The drain is smooth, insulation, grounding line is already perfect.

Power supply voltage is equal to the rated voltage of the unit

Whether there is obstructions in the air outlet

The function of remote and switch is normal

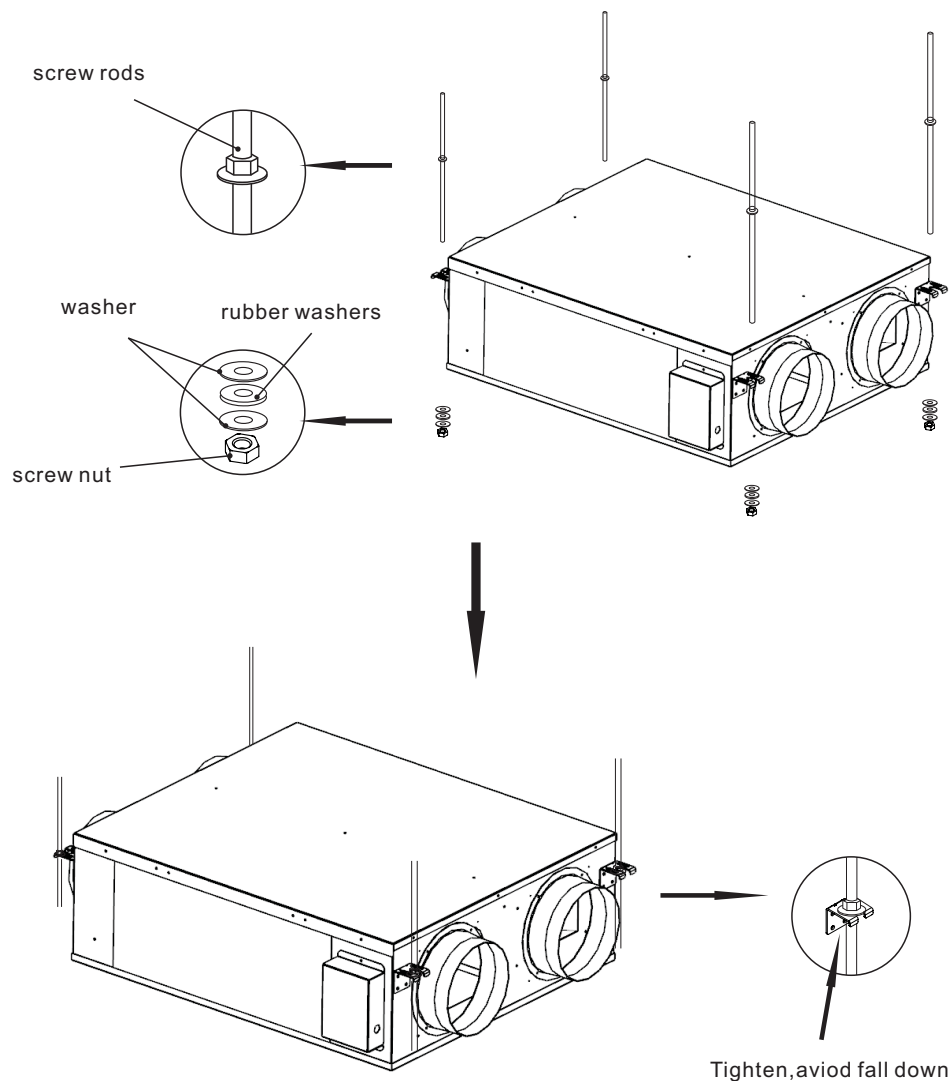
Manual operation button is normal, there is no vibration and abnormal sound while running

Lifting screws, nuts are secure

Test run

- After installing, make sure the bottom line installation and wiring, be sure to commissioning
- Confirm the wiring and voltage, then power on. Please according to the table below to confirm the states
- When exception occurs, cut off the power. Check the wiring again.
- After testing running, must be installed well the terminal box

Diagram of installation steps



Installation introduction of the outdoor air inlet.

Do not install in the place which has combustible gas. It may cause fire.

Caution! This products can not be used for ventilation with open-type burning appliances (heater) , When use gas or oil heater, please use special equipments.

Do not install the unit and outdoor air inlet near the machinery factory or research facilities, Avoid the environment which has acids, alkalis, organic solvents, paints, harmful gases or corrosive composition of gases. It may cause fire.

Do not install the outdoor air inlet in the environment which with high humidity, it will impact inside part of the machine and may cause fire and electric shock.

Installation Instructions

Do not install the air inlet in the kitchen, it may cause fire

The air ducting of outside, installed tilted, improper installation may cause water seepage

In order to prevent condensation. The extend from outdoor to indoor, improper installation may cause water seepage

Outdoor air inlet to be installed in the location where ERV/HRV won't, which causes indoor air pollution, damage to health.

Installed steel net or similar item at the air inlet to prevent the animals. It may cause indoor hypoxia

Warning! Installation work must be carried out strictly in accordance with what stated above

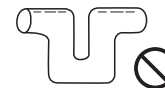
Notice

■ During installation, the pipes should avoid the following situation

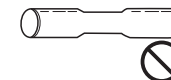
(1) Bend



(2) Bend many times



(3) Reduced diameter of the duct



Install the unit within the ceiling may cause fire and electric shock, when the ceiling is with high temperature and wet. Install the unit,

Depending on the location of the dedicated circuit-breaker, it may cause electric shock without installing any circuit-breaker.

Install the electric wire should be strictly in accordance with national standards and the requirements of construction, otherwise it may cause electric shock and fire

To firmly install the power cord and connector. Dirt and dust may enter the terminals and cause fire

Do not reverse the machine, it may fall down and cause injury.

Install the component firmly, it may fall down and cause injury.