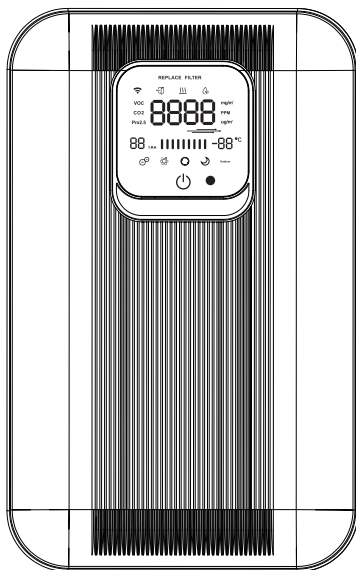


Wall-mounted
Energy Recovery Ventilator



ASE/120/PLUS
Instruction manual



Catalogue

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01/Safety Instructions

Please read this manual carefully before using the energy recovery

Pay attention to the meaning of the two logos:

"Warning": Indicates that improper operation may cause personal injury or serious injury;

"Caution": Indicates that improper operation may cause personal injury or property damage.

Warning

- (1) Do not use or store flammable and explosive dangerous goods beside the ERV unit;
- (2) Be sure to cut off the power before maintenance the ERV ;
- (3) In case of serious failure (such as smelling burnt odor, etc.), please cut off the power immediately;
- (4) Do not use the method of unplugging or inserting the power cord to start or stop the ERV;
- (5) Keep clean of the air outlet side to make the ERV normally work;
- (6) Do not insert your fingers or objects into the air outlet of the ERV;
- (7) Please do not modify without permission. If you need to repair or move the ERV unit, please contact the dealer or after-sales service personnel.

Notice

- (1) Installation and maintenance must be performed by professional technicians who are familiar with the installation and maintenance rules of fresh air purifiers;
- (2) Before installation, please check whether the power cord used is consistent with the power required on the nameplate and ensure the safety of the power;
- (3) Before use, please check and confirm that the wires are connected correctly and firmly to prevent accidents such as out-points or fires;
- (4) Do not expose the ERV unit to water, humidity or corrosive environment;
- (5) Do not step on or place objects on the ERV unit;
- (6) Please use a power cord with a ground wire to ensure that the ERV can effectively avoid the risk of electric shock. Wiring do not connect to gas pipes, water pipes, telephone lines, lightning rods;
- (7) Do not allow children to operate the ERV;
- (8) Do not operate the ERV with wet hands, there is a danger of electric shock;
- (9) When cleaning the ERV or replacing the air filter, please cut off the power first;
- (10) If the ERV is no used for a long time, please cut the power off;
- (11) Do not use the ERV during sandstorms.

02/Product Description

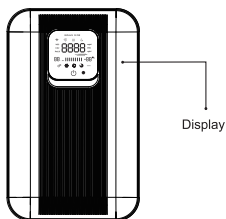
This product is a two-way ventilation energy recovery ventilator. The appearance adopts a modern and simple design, pure white, suitable for various decoration styles of houses. Two-way equal-volume ventilation flows can filter dust in the air, PM2.5, and other pollutants by through the filter.

When working, the temperature of the indoor air can be recycle by the exchange core, and it can be bring back into the room by the new fresh air. So that, the contaminated air in the room is filtered and discharged by ERV. It can continuously provide high-performance and high-efficiency ventilation. The ERV drives air circulation to form a constant humidity space, and can be ventilated for 24 hours without opening the window.

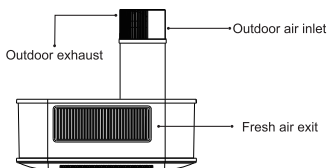
This unit can be wall-mounted in living areas such as bedrooms, living rooms, guest rooms, dining rooms, children's rooms, study rooms, chess and card rooms. The product has the obvious characteristics of convenient installation, ready-to-use, high purification efficiency, low noise, energy saving, and low maintenance cost.

03/Product Diagram

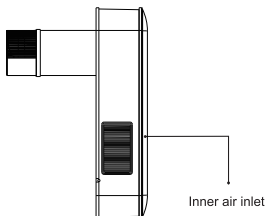
① Front of the machine



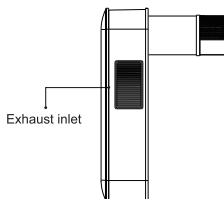
② Upper side of the machine



③ Right side of the machine

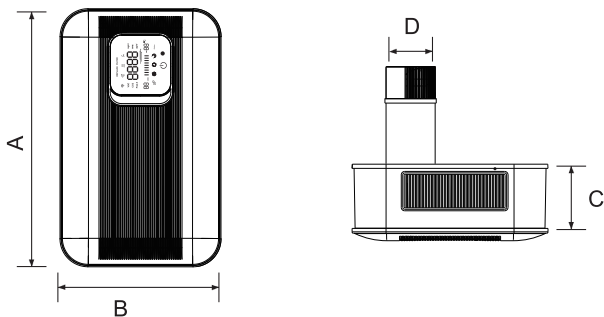


④ Underside of the machine



04/Product Parameters

1.Product Size(mm)



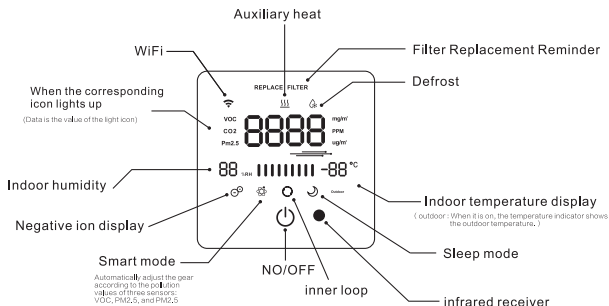
Model	A	B	C	D
NAD-120	638	398	155	128

2.Performance Parameter

Model:	NAD-120
Voltage:	110-240V
Frequency:	50/60Hz
Power:	25W
Fresh air volume:	120m³/h
Negative ion concentration:	1000000pcs/cm³
Noise:	20-45dB
Net weight:	9Kg

05/Display operation instructions

1.Schematic of display screen and display content of each area

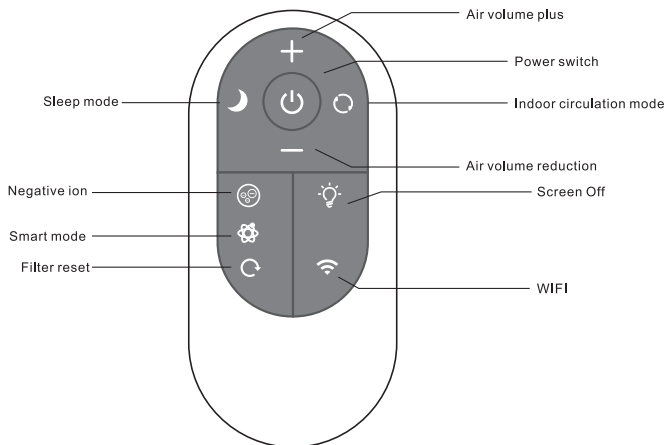


2.Operating instructions and functions

2.1 Full hot fresh air wall hanging function

- (1) Filter replacement reminder function
- (2) WiFi: The WiFi function connects to the mobile phone (Tuya) APP to directly control the fresh air fan.
- (3) Electric heating mode function
- (4) Defrost mode function
- (5) Negative ion function
- (6) Smart mode function
- (7) switch function
- (8) Internal circulation mode function
- (9) Sleep mode function

06/Remote Control Panel Diagram



Precautions:

- (1) When installing the battery, pay attention to the positive and negative polarities.
- (2) When using the remote control, the infrared sensing area is aimed at the display screen of the fresh air system without any obstructions in the middle.
- (3) When the remote control distance is found to be small and insensitive, please pay attention to replacing the battery.
- (4) After replacing the battery, do not recharge the battery or throw the battery into a fire to avoid danger. Do not throw it away. Pay attention to environmental protection.

07/Remote Control Operation Instructions

(1) Plug in the power and press the remote power button to enter standby.

(2) Manual mode:

When no mode is selected, the machine defaults to manual mode. In manual mode, you can press the remote control plus and minus keys to adjust the air volume and turn the negative ion function on or off.

(3) Intelligent mode: 

Select the smart mode to manually adjust the air volume, turn on and off the negative ion function, and the full-heat fresh air wall-mounted machine will automatically increase the wind speed according to the increase of indoor air pollution value, quickly purify the indoor air, and automatically adjust the small air volume when the indoor air pollution value decreases, so as to keep the indoor air quality within an appropriate range.

(4) Sleep mode: 

In this mode, the wind speed is reduced to 1st, and the air volume and other functions cannot be adjusted.

(5) Indoor purification mode: 

In this mode, the exhaust stops running, the outdoor air valve is closed, the indoor circulating air inlet valve is opened, and the indoor air is purified and sent out from the indoor fresh air outlet. The air volume can be manually adjusted, and the negative ion function is enabled.

(6) Indoor purification mode combined with smart mode: 

In these two modes, the exhaust stops running, the outdoor air valve is closed, the indoor circulating air inlet valve is opened, and the air volume is adjusted according to the indoor pollution value. The indoor air is purified and sent out from the indoor fresh air outlet.

(7) Indoor purification mode combined with sleep mode: 

In these two modes, the exhaust stops running, the outdoor air valve is closed, the indoor circulating air inlet valve is opened, the wind speed gear is reduced to gear 1, and the indoor air is purified and sent out from the indoor fresh air outlet.

(8) Filter reset:

The filter has been placed in the machine before leaving the factory. After the machine installation, please drop the plastic bag and put the filter back to machine. For the first running, press the remote control's filter reset button to reset the filter replacement time. The system will set the maintenance time for the next filter replacement. When the filter replacement is needed, the machine will display: "Clean the filter Replace the filter"

(9) Defrost mode:		Defrost				Ventilation			
Temperature code	Outdoor temperature	Fresh air exhaust motor running time	State	Fresh air exhaust valve closed	PTC	Fresh air exhaust motor running time	State	Fresh air exhaust valve closed	PTC
A	5°C to -15°C	10 minutes	Manually adjustable gear	Closure	Closure	40 minutes	Manually adjustable gear	Turn on	Closure
B	-16°C to -26°C	10 minutes	Manually adjustable gear	Closure	Closure	25 minutes	Manually adjustable gear	Turn on	Closure
C	Lower than -25°C	10 minutes	Manually adjustable gear	Closure	Closure	15 minutes	Manually adjustable gear	Turn on	Closure

08/Machine Installation

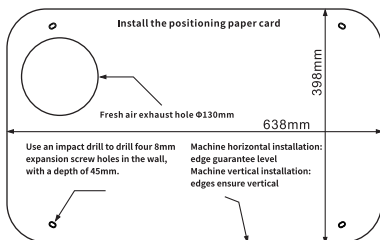
1. Installation precautions

- ① The ERV unit is only suitable for indoor installation. It is wall-mounted and punched according to the special installation template.
- ② Please make sure the installed wall can bear the weight of the machine and cannot be installed on the hollow plywood wall.
- ③ The installation location must be away from heat, danger and pollution sources.

2. Installation of fresh air exhaust pipe

- ① Attached the layout of the die set to the location where the host machine needs to be installed.

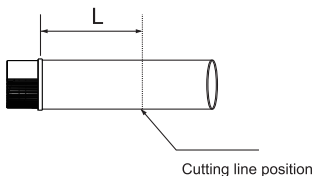
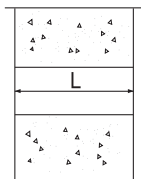
Note: Operate strictly according to the text description of the die drawing
Put the positioning paper card on the wall



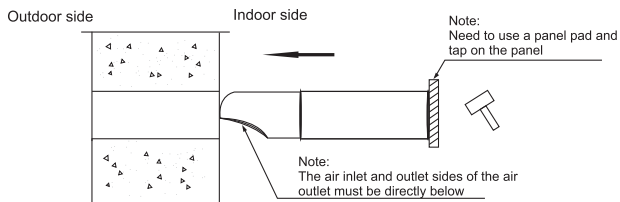
- ② The machine needs power supply to run, so a power socket is required within 500mm outside the drawing area of the drilling die.

Mark the positions where the holes and holes need to be drilled according to the drawing of the drilling pattern, and then remove the drilling pattern paper for opening and drilling.

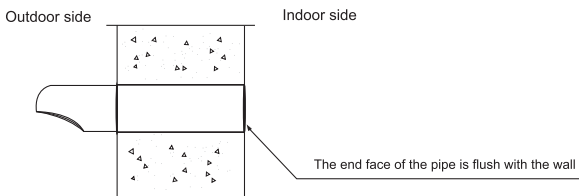
Measurement the wall thickness L , and cut the randomly arranged outer air pipe to a suitable length according to the wall thickness. (As shown below)



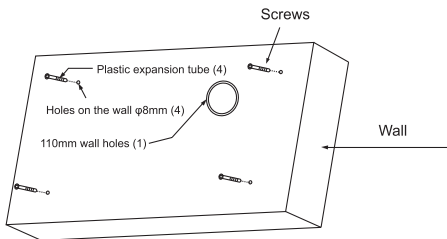
Install a new exhaust pipe from the indoor side (as shown below)



⑥ The new exhaust duct is installed in place (as shown below)



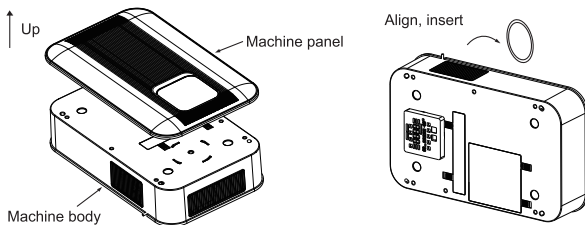
⑦ Plug the plastic expansion tube into 46mm holes on the wall (must be level with the wall after completion)



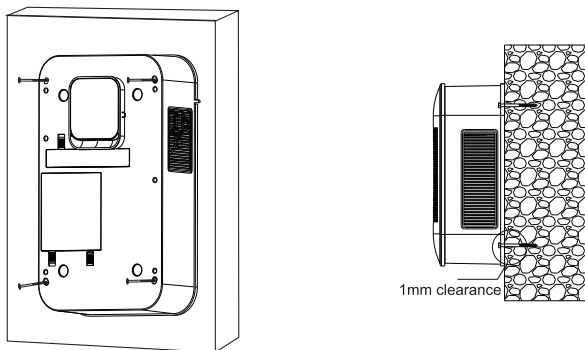
3. Machine installation

The panel and the main body are attracts together by the magnetism, pull the panel upwards, and remove the host panel (as shown in the left below)

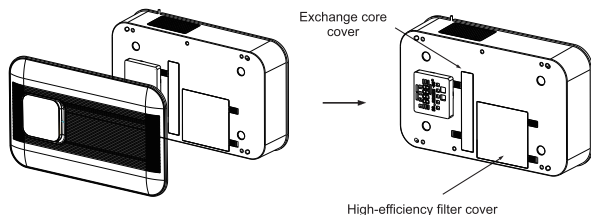
② Plug the external air hole of the host into the new exhaust pipe that has been installed (as shown in the lower right figure).



- ③ Against the unit to the wall, align the four mounting holes in the corner of the main unit with the 4 holes with a diameter of 6mm, and lock the main unit on the wall with the screws (bottom left).
- ④ Do not overtighten when tightening the screws. Make sure that there is a gap of about 1mm between the edge of the base of the machine and the wall. (Bottom right), or resonance may occur when the machine is running.

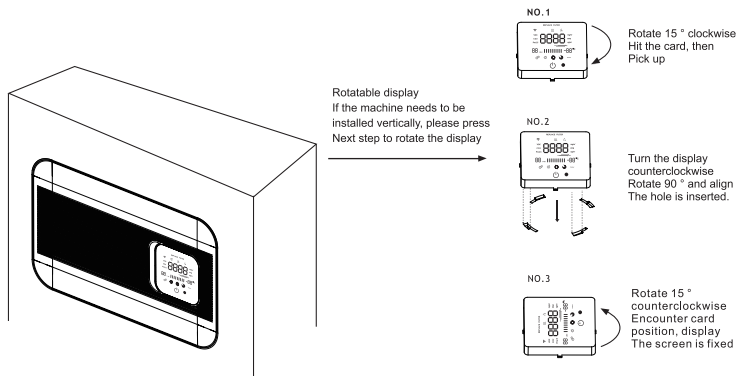


- ⑤ Open the high-efficiency filter cover, take out the filter, remove the plastic bag, place it back inside the unit, and cover panel.



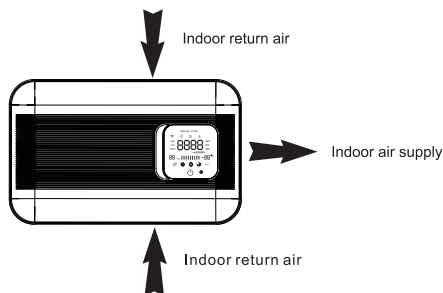
- ⑥ After confirming that the panel of the host is firmly covered, plug in the power supply of the host.
- ⑦ If the installation space does not allow the host to be installed horizontally, the vertical installation of the host does not affect the operation of the host. Therefore, you can also choose the vertical installation of the host (as shown below) to confirm that the panel of the host is firmly covered, and then plug in the host power.

* Please refer to the horizontal installation steps for the vertical installation steps



4. Machine Running

① Air flow diagram



- ② After the installation of the ERV unit, please running test. In the operation test, please confirm the ERV unit runs well, no abnormal noise, good remote control reception, no vibration, and the fresh air and exhaust air are smooth.
- ③ After commissioning, please clean the body as there will some dust on during the installation.

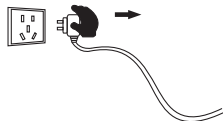
5. Handling common faults

Phenomenon	Possible reason	Approach
The ERV does not start	1. No power 2. The supply voltage is too low 3. Control circuit failure 4. Not turned on	1. Power on 2. Contact the power supply department 3. Contact after-sales service center 4. Remotely turn on the ERV unit
Excessive running noise	1. Whether the installation is firm 2. There are sundries in the machine	1. Contact the service center 2. Remove debris

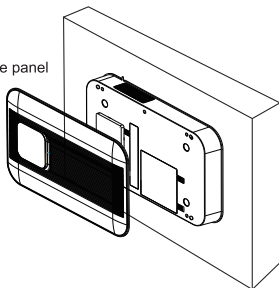
09/Machine Maintenance

1.Filter replacement

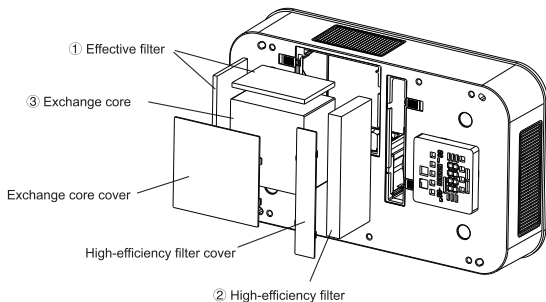
1.1 Unplug the power supply of the machine



1.2 Pull out the panel



1.3 Pull out the exchange core cover and high-efficiency filter cover, and take out the filter for cleaning or replacement (as shown below)



Number	Name	Size	Replacement cycle
①	Effective filter	162x111x9mm	1 month-3 months can be cleaned
②	High-efficiency filter	255x111x30mm	6 months-12 months replacement
③	Exchange core	164x164x111mm	No need to replace

