

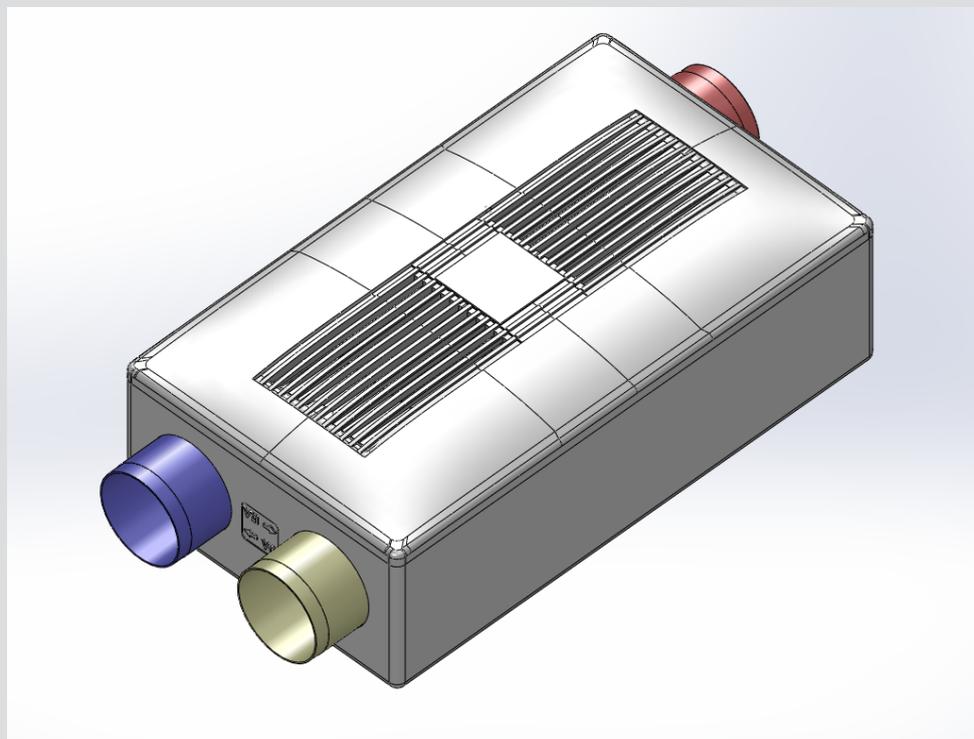
Model No. : Pax Eos 100

Art No. : 1110-1

Model No. : Pax Eos 100H

Art No. : 1110-2

 Installation guide



Intertek

PAX[®]

www.pax.se

009-905033-A 2013-06-11 © Copyright Pax AB.

UK Important information:

- According to the standard EN 60335, the following shall be considered.
This appliance can be used by children aged from 8 years, and persons with reduced physical, sensory or mental capabilities, or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safety way and understand the hazards involved.
Children shall not play with the appliance.
Cleaning and user maintenance shall not be made by children without supervision.
- Prohibit to install this product where it could be directly exposed to water or excess vapor.
- Prohibit to install this fan near cooking equipment.
- Do not install this product in places with excessive oil fume.
- The ventilation fan must be installed in such a manner that it will not fall down from the ceiling/wall the unit are screwed in.
- The product must be installed on a wall or ceiling that is strong enough to keep the unit, otherwise the wall or ceiling reinforced.
- Be sure to provide an appropriate opening for air intake and exhaust.
- Consider the location of the intake air so do not risk that gas or other fuel gases can follow the supply air into the home.
- Use this product at the rated voltage and frequency indicated on plate.
- The appliance is equipped with an isolator switch for disconnecting from the mains. With this switch separates all poles that provide full disconnection under overvoltage category III.
This switch must be included in the fixed wiring in accordance with the cabling rules.

Environment

Packaging waste

- Please recycle packaging waste in the nearest recycling center.
Contact your local recycling center for local guidelines and more information.
Keep waste out of reach of infants and children to avoid injury or suffocation.





Contents

Thank you for purchasing Pax Eos. Please read this manual carefully to understand how to use this product correctly and thus achieve the best possible effect.

After you've read it, keep it well so that you can easily find it if necessary.

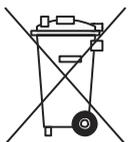
For more information, see www.pax.se.

- Important information	Page	3
- Environment		5
- Safety instructions for users		7
- Name of each parts		9 and 11
- Howe to use		13
- Maintenance		23
- Safety instructions for the installer		25
- Installation		27
- Specifications		37
- Frequently asked questions		37

Feature:

- House heated air is drawn into the Eos. But before it is sent out, it is used to heat the incoming fresh air, so that it largely is heated as soon as it enters the house.
- As the temperature and humidity can be recovered with eos in-built heat exchanger, it is also possible to save air conditioning costs.
- eos is designed to be installed indoors, temperature range from 5 to 35 ° C.
- eos is automatically stopped when the outside temperature is below -30 ° C.

Environment:



Information about electronic waste and equipment for households

This marking indicates that this product should not be disposed with other household wastes throughout the EU.

To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources.

To return your used device, please use the return and collection systems or contact the retailer where the product was purchased.

They can take this product for environmental safe recycling.

Information on waste electrical and equipment outside the European Union

This symbol is only valid in the European Union. If you wish to discard this product, please contact your local distributor for proper disposal.

Before disposing of your old Pax Eos

Please follow the instructions from the manufacturer of your old device or local regulations from local authorities.

If none of these options is available, please follow two-step instructions below:

1. Disconnect main power and discard the waste carefully, let the wall socket remain in the unit.
2. Keep the device out of reach of infants and children before it is discarded.

 Safety instructions for the installer.

The symbols mean:



Let be



Make sure that you do this



Do not disassemble



WARNING

Indicates fatal risks or risks of serious injury.



- According to the standard EN 60335, the following shall be considered. This appliance can be used by children aged from 8 years, and persons with reduced physical, sensory or mental capabilities, or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safety way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.

- Use this product at the rated voltage and frequency indicated on the name plate.



- Do not disassemble the unit, it may cause fire or electric shock.



- Do not turn on or off this product in case of gas leakage, there is a risk of electric spark occurs in the switch, which can result in an explosion.
- When cleaning, do not spray water or other cleaning liquids directly on the product, short circuit and electric shock may occur.



CAUTION

Indicates a risk of personal injury or property damage.



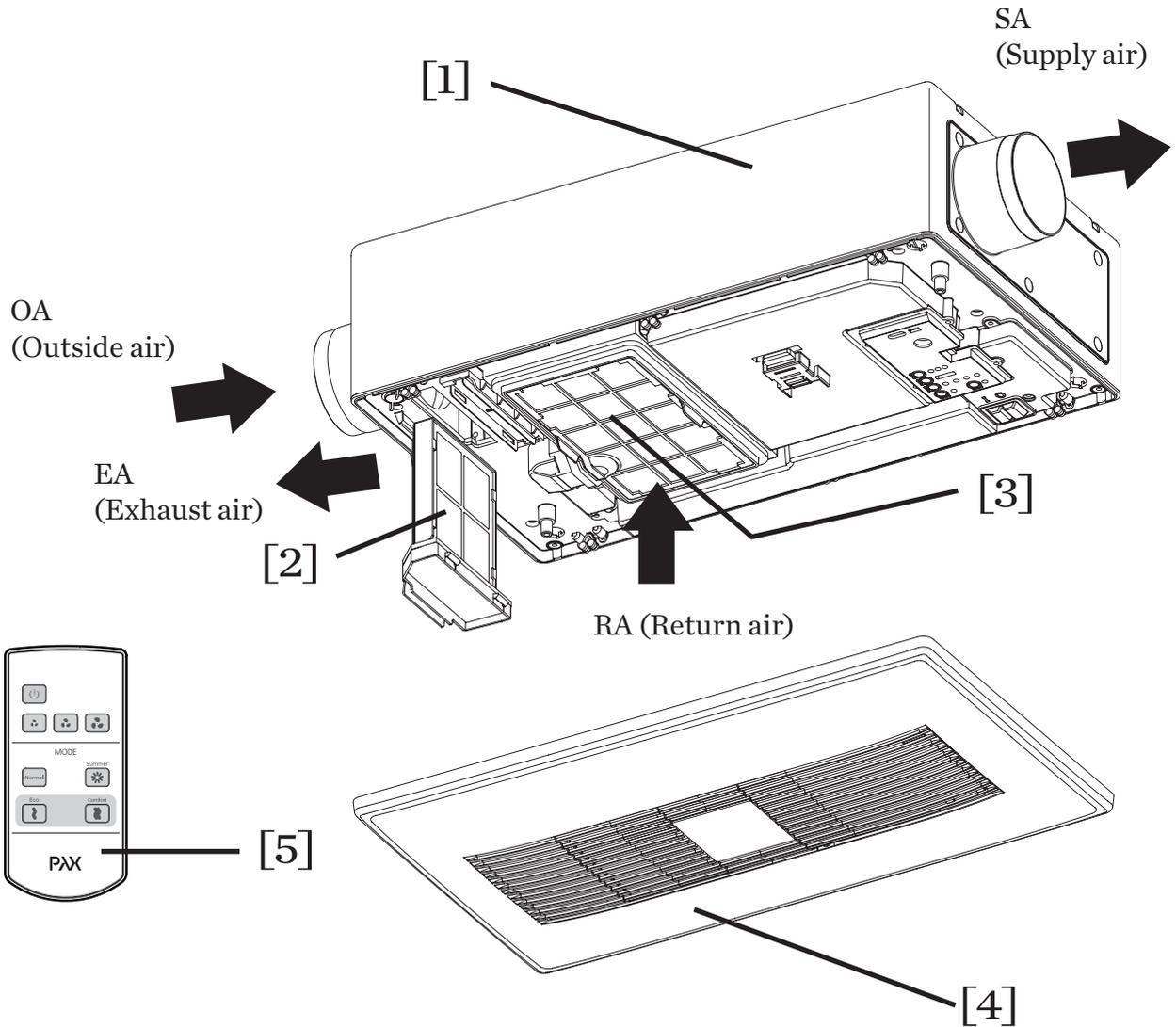
- Routine maintenance is required every year. Disconnect the power source before you conduct any maintenance.



- Do not use gasoline, benzene, thinner or similar chemicals for cleaning of the unit.
- Do not wash in hot water over 60°C.

UK

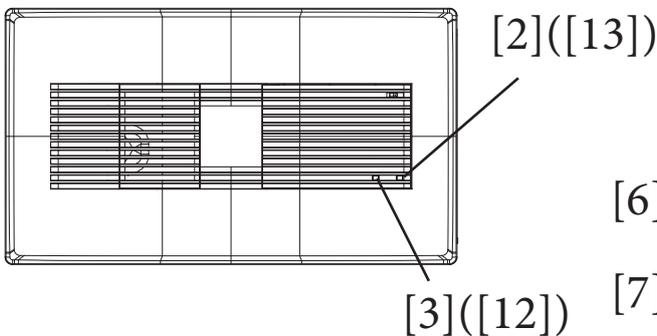
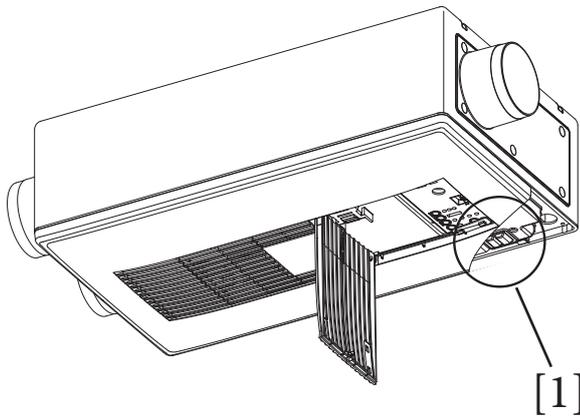
The figure below shows
Pax Eos 100H, for example.



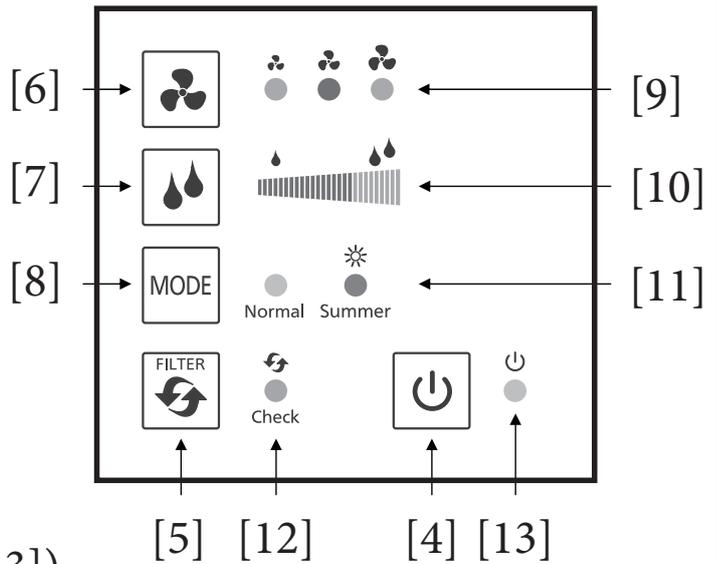
Important parts:

- 1: Heat recovery ventilation unit
- 2: Outdoor air Filter (OA filter)
- 3: Return air Filter (RA filter)
- 4: Front panel
- 5: Remote Control

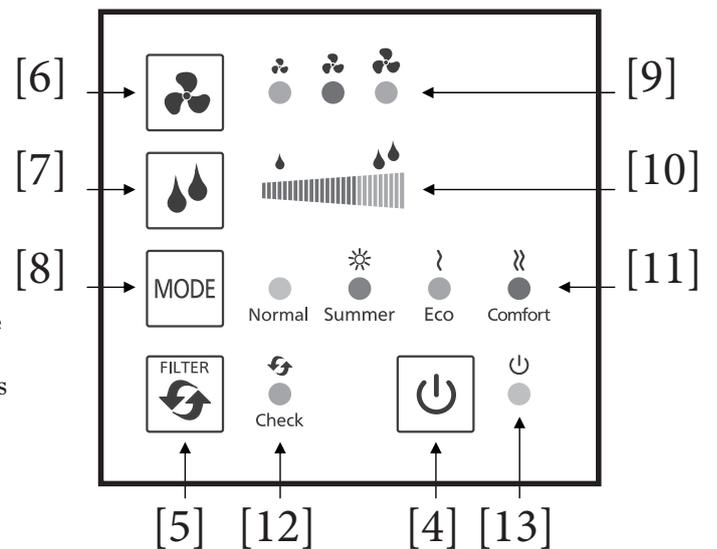
UK Control panel & Remote Controll



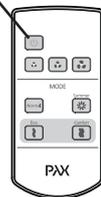
Pax Eos 100



Pax Eos 100H



- When the unit is in standby, you can not perform any settings.
- Settings with remote control and control panel can be performed after the unit is started with button 4.
- If no settings are done, disappears the indicating lights after 10 seconds.
(Display lights up only when manually setting on the control panel.)



- [1] Main power switch (on/off)
- [2] Indication, start and standby (green)
- [3] Indication, filter maintenance (orange)
- [4] Start and Stand by button.
- [5] Filte Maintenance (reset button)
- [6] Button, setting air flow (3 step)
- [7] Button, setting moisture sensitivity (9 step)
- [8] Button, choice of Mode location
- [9] Indication, preset airflow
- [10] Indication, selected moisture sensitivity
- [11] Indication, selected mode.
- [12] Indication, filter cleaning (orange light)
- [13] Indication, operation (green light)

UK How to use Pax Eos100/100H.

Turn on/off the main power switch.

- [1] Press up on the edge of the grille to open.
- [2] Pull the lever sideways to unlock the front panel
- [3] Remove the front panel down to release it.
- [4] Turn on the main switch.
- [5] Replace the front panel by pressing the lid in their strongholds.
- [6] Flip the lever back into its locked position [2].

Note: Turn on / off the main power switch [4].
Use this button when doing maintenance or leaving home for a long time.

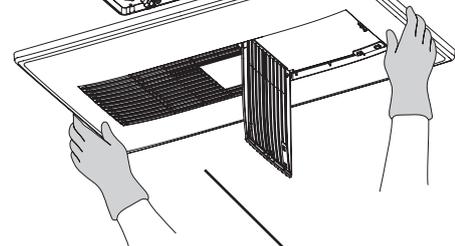
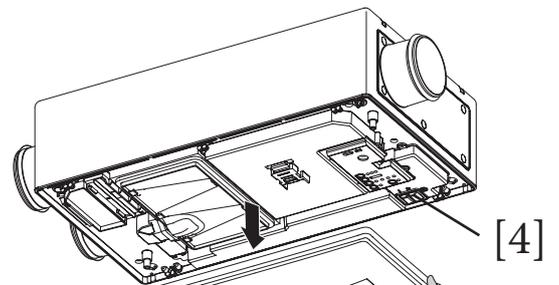
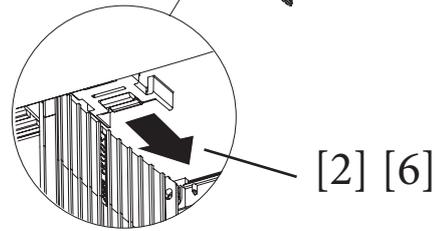
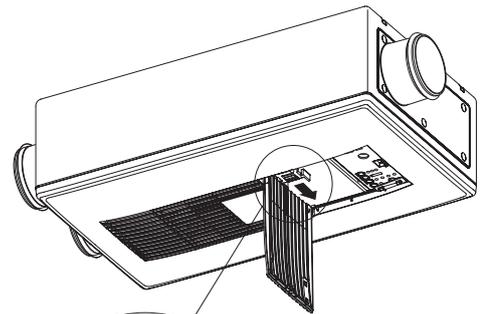
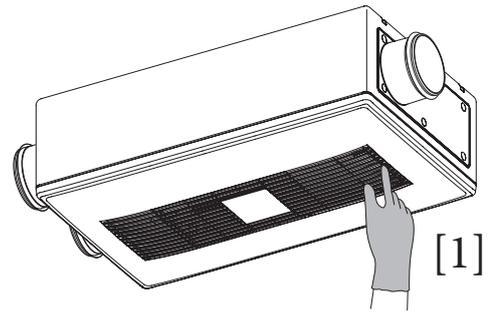
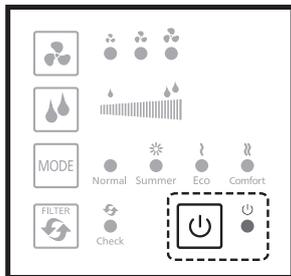
Turn on/off the aggregate.



Start the unit by pressing the button on the control panel or remote control.

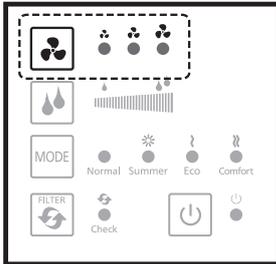
Wait, the unit opens the dampers for outdoor air and exhaust air, which will take about 1 minute.

Now, moisture adjustment, operating mode and fan speed can be selected.



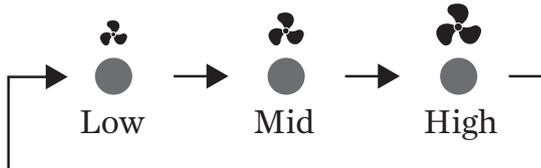
UK

Speed control



- Main unit

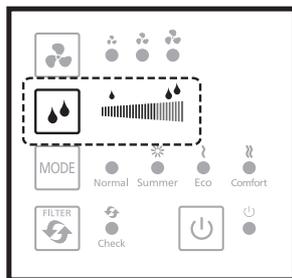
Push  to change the flow into 20, 40 eller 60m³/h



- Remot Control

Select,   
Low Mid High

Humidity control



- Main unit

Push  to change the moisture sensitivity (9 steps, 40-88%)



Settings

NOTE:

- Eos is factory set to start at a moisture level of 58%. Possibility to change the starting point is by adjusting the levels of key  in 9 levels between 40-88%.
- Moisture level is indicated by three LEDs, each LED indicates where the third level (3, 6 and 9 th level, each step change sensitivity by 6%)
- When the set humidity level is reached Eos goes to work only in forced extraction mode. When the humidity later falls below the set level, the unit will continue at forced in 20 minutes for the moisture level to stabilize. Then returns to its normal Eos heat exchange operation.

During summer, when the relative humidity both inside and out is high, it may be necessary to adjust the starting point to a higher level to avoid Eos only goes in forced exhaust mode.

How to use.



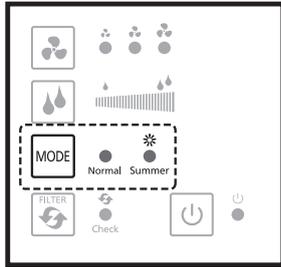
UK

Mode control

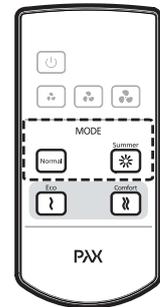
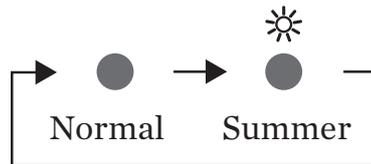
Pax Eos 100

- Main unit

- Remote control



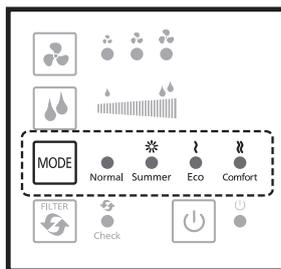
Push **MODE** choice of Mode location.



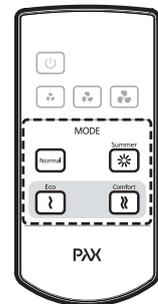
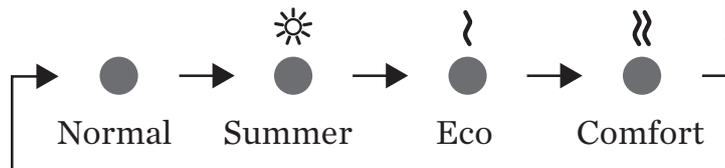
Pax Eos 100H

- Main unit

- Remote control



Push **MODE** choice of Mode location.



Pax Eos 100

Select, **Normal** **Summer**

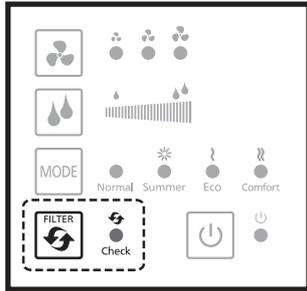
Pax Eos 100H

Select, **Normal** **Summer** **Eco** **Comfort**

Normal -	<u>Continuous operation with heat exchange:</u> The Eos has normal heat exchange down to -15°C. From -15°C and down to -30°C, the Eos only working with exhaust air. Between -20 to -30°C provided automatically 20m ³ /h extraction. At -30 ° C stops Eos and dampers are closed.
Summer -	<u>Increased comfort in summer.</u> If Mode Summer is on and the outdoor air is 4°C colder than the exhaust air, the supply air stops and the unit only work with exhaust air, apply at outdoor temperature down to 10°C. (Otherwise similar mode Normal)
Eco - only Pax Eos 100H	<u>Only Eos with preheater: Continuous operation with heat exchange and limited supplementary heat.</u> The preheater heats as much as necessary to avoid icing / condensation in the heat exchanger. The unit switches the air down to -20°C outdoor temperature, from -20 to -30°C provided automatically 20m ³ /h extraction. At -30 ° C stops Eos and dampers are closed.
Comfort - only Pax Eos 100H	<u>Only Eos with preheater: Increased comfort in winter, continuous operation with heat exchange and supplementary heat.</u> The preheater heats as much as needed to keep supply air above +18 ° C. The unit switches the air down to -20°C outdoor temperature, from -20 to -30°C provided automatically 20m ³ /h extraction. At -30°C stops Eos and dampers are closed.

UK

Filter Maintenance



The light for filter maintenance lights when selected period listed, (default 180 days).

Change the air filter according to the instructions page 23.

After change, reset signal for filter control by pressing the filter button.

Push



Depending on how quickly the filters clogging of air pollutants are able to choose 4 different service intervals. The interval between filter cleaning are set as follows.

Put the unit in standby mode by pressing the button

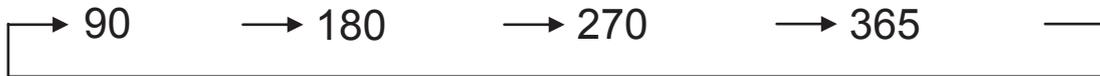


- Simultaneously press buttons  and  for 3 seconds to access the mode choice of period.

- When two short buzzer sounds, you are into fashion for choice of period.

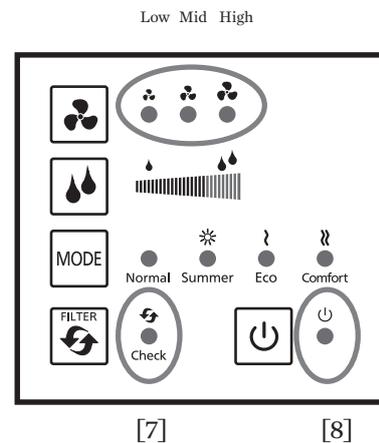
- Then you can step forward with the button  to select the appropriate period.

- Short buzzer sounds at each step as below.



The four service intervals shown with flashing lights according to the following combinations.

Period	Lamp Indication				
	Low	Mid	High	[8]	[7]
90 days					
180 days					
270 days					
365 days					



[3] After changing the period, press buttons  and  for 3 seconds again.

UK

Balancing the airflow.

Starting the auto-balancing:

- Automatic adjustment of airflow balance of flows Low, Medium and High is made by fan motor adjusts its speed and the air dampers are regulated in a specific order.



- Press 3 seconds  to start automatic balancing.

- When the automatic balancing begins stopped possible preheater and blower motor runs on high flow for 1 hour to stabilize any temperature.

- During balancing flashing signal light 

- When auto-balancing is complete the settings are saved automatically, and the unit return to the previous operating mode.



- During the auto-balancing is only the start button  accessible.

Resetting to factory defaults:

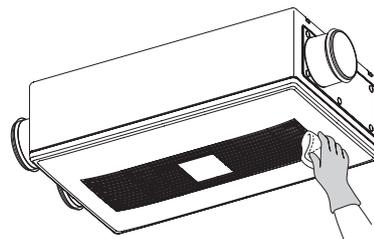


- Press at the same time 10 seconds on  and  when the unit is in Standby mode. This will delete the saved values from auto-balancing and restores to factory settings. One half long buzzer sound confirms the setting.

UK

Cleaning front panel

Wipe the front panel and the frame with a damp cloth. NOTE: Do not use solvents.

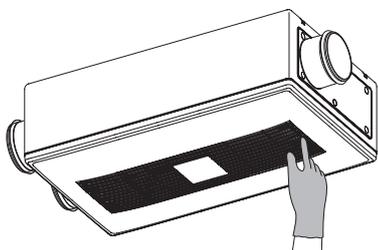


Replacement air filter.

Proceed as follows to replace the two air filters: Out side air filter OA and Return air filter RA.

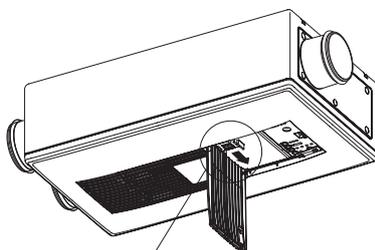
Start by turning off the main switch.

[1] Press up on the edge of the grille to open.

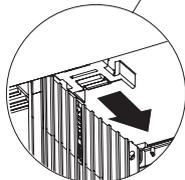


[1]

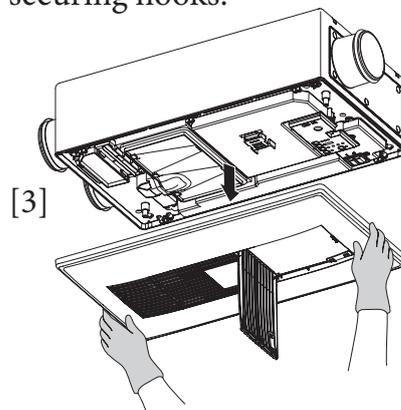
[2] Pull the lever sideways to unlock the front panel.



[2]

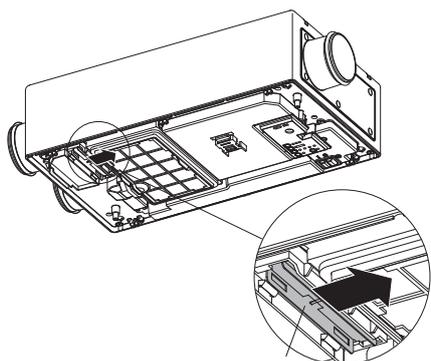


[3] Remove the front by pulling it down. The front panel is secured with 6 resilient securing hooks.



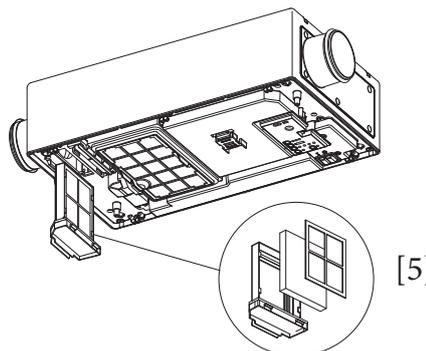
[3]

[4] Pull the locking plate for OA aside.



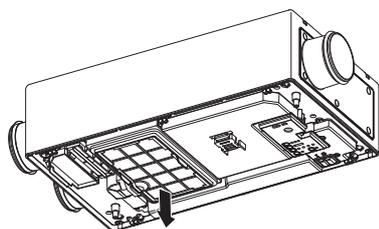
[4]

[5] Pull out the OA filter from the unit and replace with a new one.



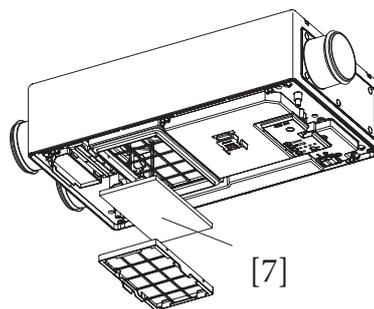
[5]

[6] Pull extraction cartridge down to release it.



[6]

[7] Open cartridge and replace the Return filter (RA) with a new filter.



[7]



Safety instructions for the installer.

The following instructions should be strictly observed in order to prevent injury to the users and other people, or damage to property.

The symbols mean:



Let be



Make sure that you do this



Do not disassemble



Indicates fatal risks or risks of serious injury



- Use this product at the rated voltage and frequency indicated on plate.



Indicates a risk of personal injury or property damage.



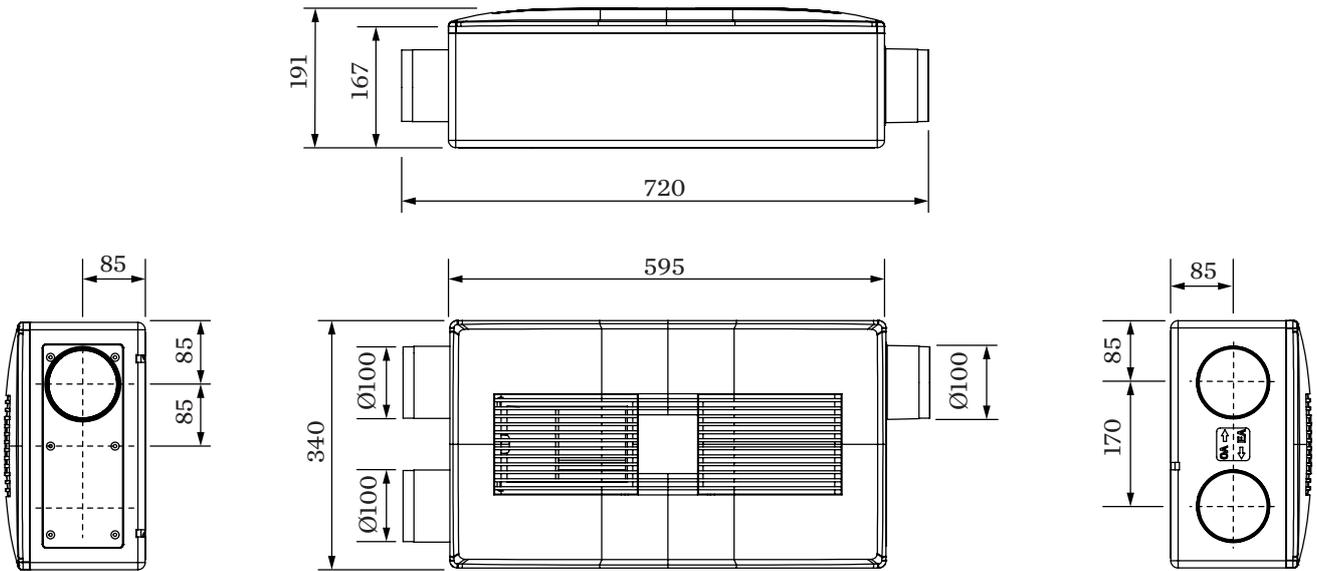
- Prohibit to install this product where it could be directly exposed to water or excess vapor.
- Prohibit to install this fan near cooking equipment.
- Do not install this product in places with excessive oil fume.



- The ventilation fan must be installed in such a manner that it will not fall down from the ceiling/wall the unit are screwed in.
- The product must be installed on a wall or ceiling that is strong enough to keep the unit, otherwise the wall or ceiling reinforced.
- Be sure to provide an appropriate opening for air intake and exhaust.
- Consider the location of the intake air so do not risk that gas or other fuel gases can follow the supply air into the home.
- The appliance is equipped with an isolator switch for disconnecting from the mains.
With this switch separates all poles that provide full disconnection under overvoltage category III.
This switch must be included in the fixed wiring in accordance with the cabling rules.
- That precaution must be taken to avoid the back-flow of gases into the room from the open flue of gas or other fuel-burning appliances.



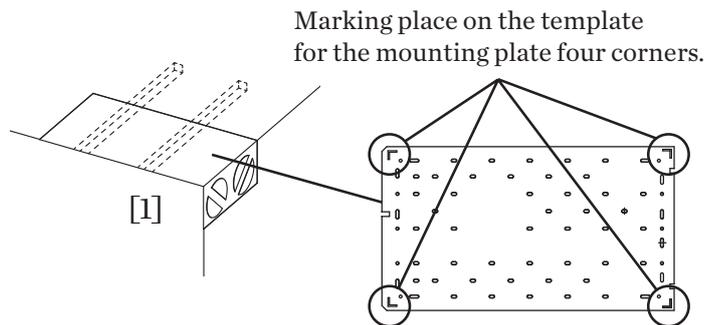
Dimension: Pax Eos 100 and Pax Eos 100H



Parts included in delivery:

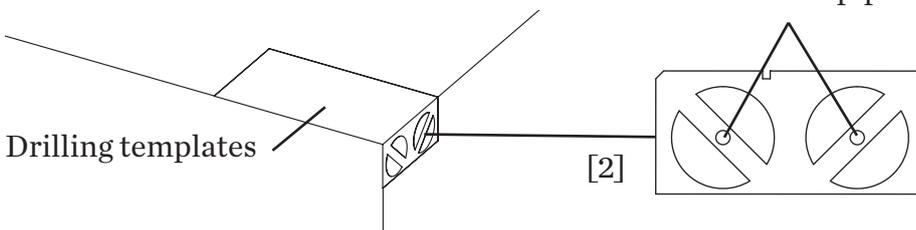
Screws for mounting the main unit	4pcs
Screws for mounting plate	6
Screws for the SA adapters	6
Screw cap, SA adapters	6
Screw SA duct	2
Mounting plate	1
Wall Seal A	1
Wall Seal B	1
Drilling Template	1
Remote control	1
Long bit 200mm PH2	1

[1] Fixing the drilling template on the ceiling or wall with adhesive tape. Mark the position of the mounting plate 4 corner and 6-holes with a pen. Ensure that the screws pulls the stable surface, wood stud or similar.



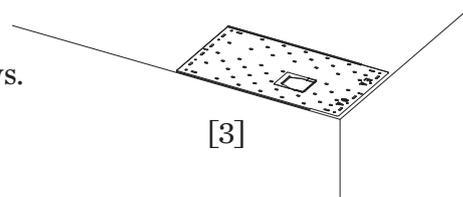
[2] Mark the center position for pipes.

These holes guide for marking the center of the pipes.

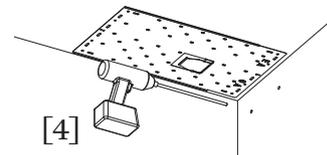


UK

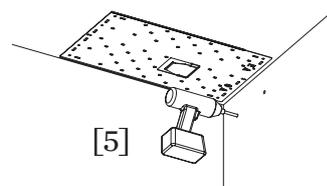
[3] Fix the mounting plate under ceiling by 6 screws.



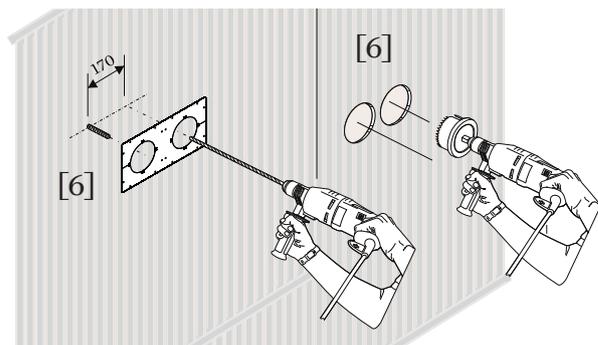
[4] Drill two small holes in the inner wall marked by drilling template.



[5] Drill a hole through the wall with a long narrow drill. (be sure to drill straight in both wave and vertically)

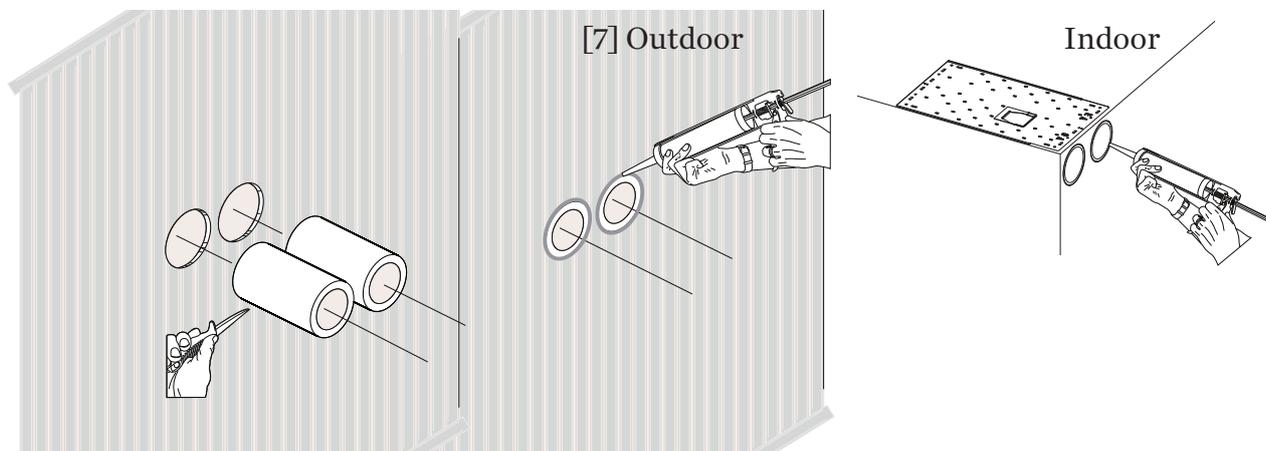


[6] Then use the template holes on the outside of the wall to mark the second hole position. This will make you a safer positioning of markers to use hole saw. Next make up the larger holes $D = 146 \text{ mm}$ (holes adapted for Pax eos isolated channels) by sawing through the wall from both inside and outside.



Isolated channels described below is an accessory for Pax Eos.

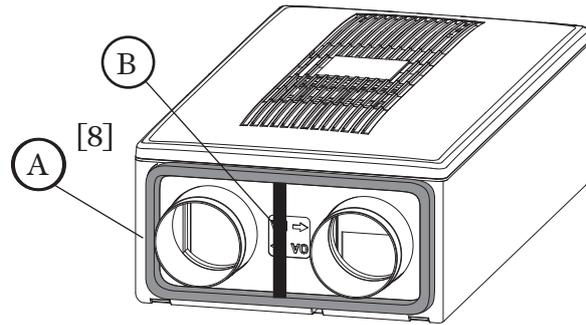
[7] Set isolated channels in the holes for fresh air and exhaust air, the channels can be cut in the right in length with a knife. Seal the space between the wall and the channel by caulking.



UK

[8] Insert wall seal A and wall seal B on OA/EA side of the fan.

Included gasket attached to the gable around the pipe connections to prevent air leakage.

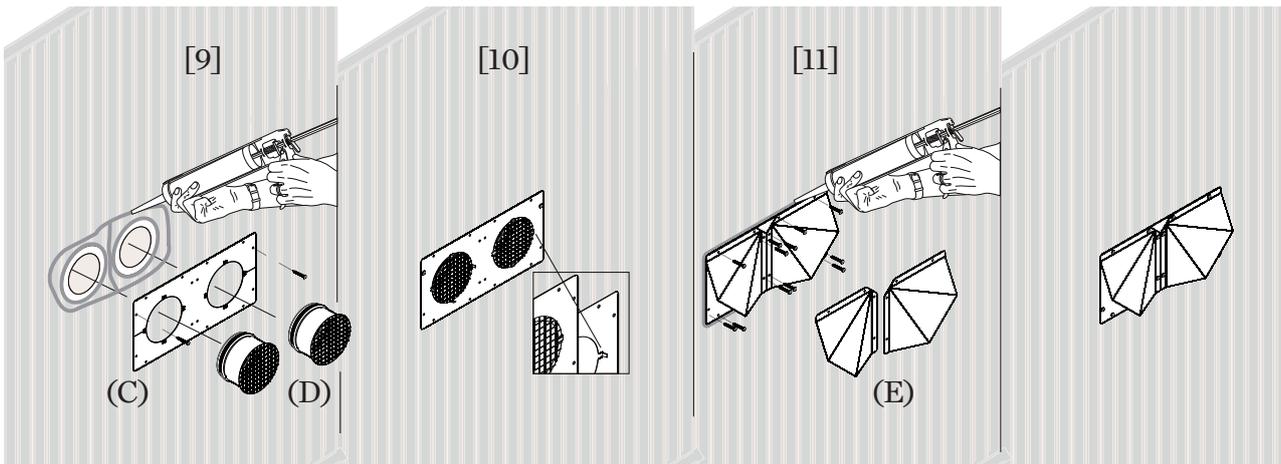


External wall grille described below is an accessory for Pax Eos.

[9] Seal between the frame (C) and the outside of the wall so no ventilation air can enter between the wall and the frame.

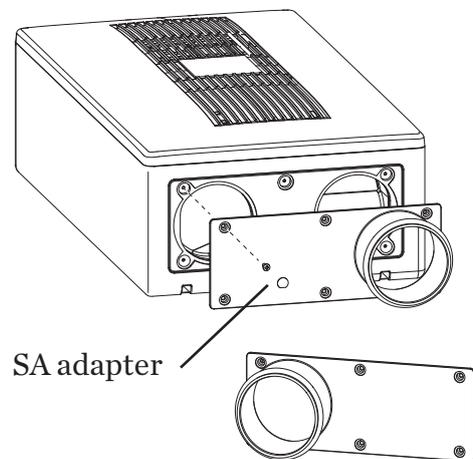
[10] Put frame and connectors (D) in place (the frame is equipped with small folding ears that can be used to fix spigots), align frame horizontally and fasten with two screws. (Take advantage of holes in the frame that will not be used later.)

[11] Screw the louvers (E) so they will always be facing away from each other and that they also protect against rain. When the entire external wall grille is bolted, seal around the frame edges so no rainwater can penetrate between the frame and outer wall.



[12] Select the direction of SA adapter to correspond to the position of duct.

Fix SA adapter with supplied screws. Following that, cover the screws with supplied screw caps.



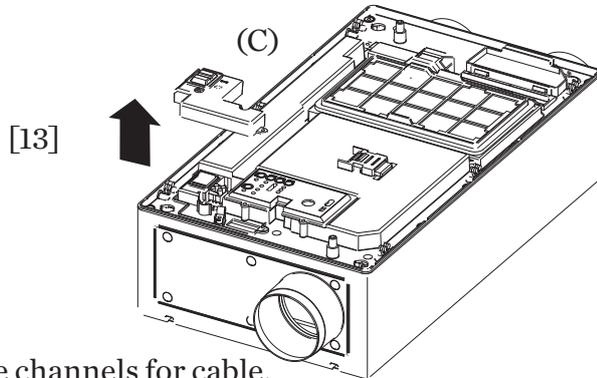
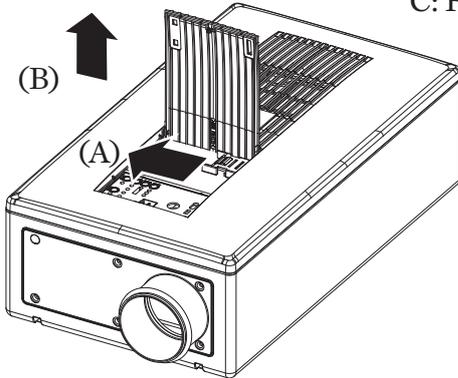
UK

[13] Before the Eos is in place, the connection cable pre-installed.

A: Pull the lever sideways to unlock the front panel

B: Remove the front panel to release it.

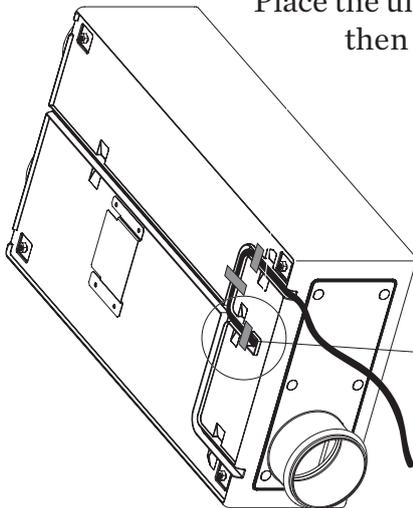
C: Remove the two screws holding the terminal box cover.



[14] The back of the unit is prepared with cable channels for cable.

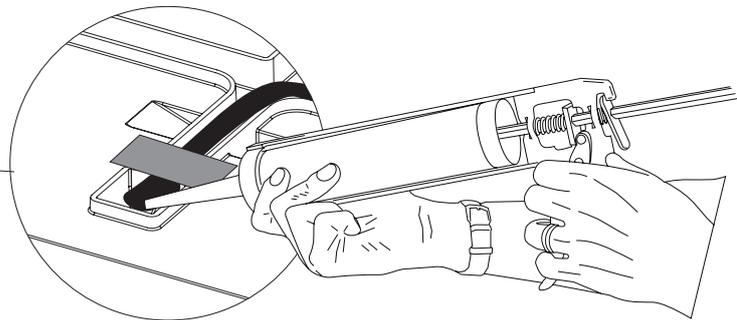
There are three possible ways to assemble the connecting cable.

Place the unit on the side and through a sufficient length of cable, then fix the cable with tape pieces so it stays in place in the channel when the unit is mounted.



[14]

Seal the entrance with sealant.

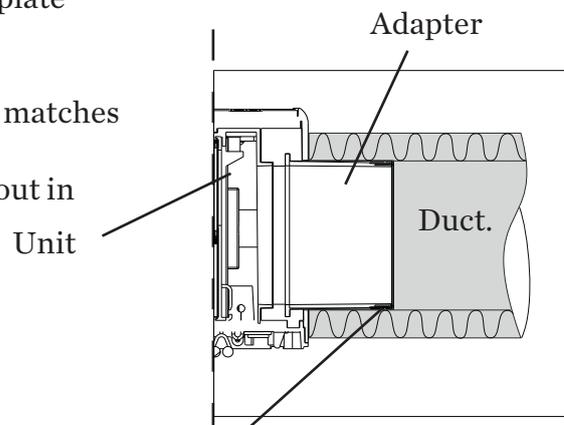


[15] When the unit is lifted into place:

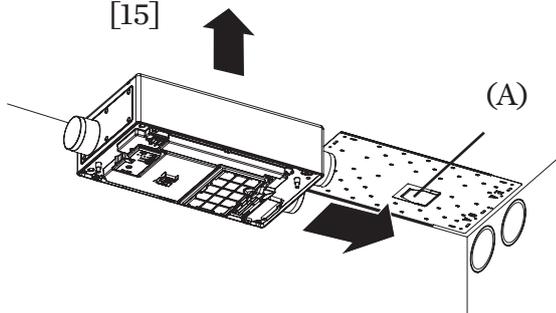
Press the assembly against the ceiling mounting plate while as the unit moved against the isolated SA / EA air ducts.

The mounting plate has a hook arrangement (A) matches in a corresponding part of the unit.

The hook is an aid that unit temporary can hang out in while the screws pulled, see Figure [16].



[15]



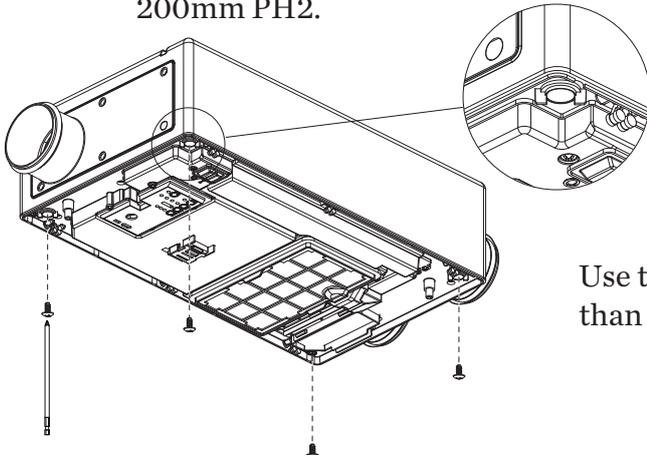
Sealing rings are pre-installed around the adapter to seal the between adapter and duct.

Installation.

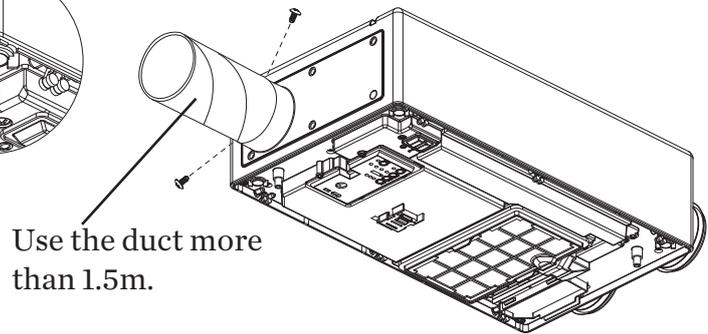
PAX®

UK

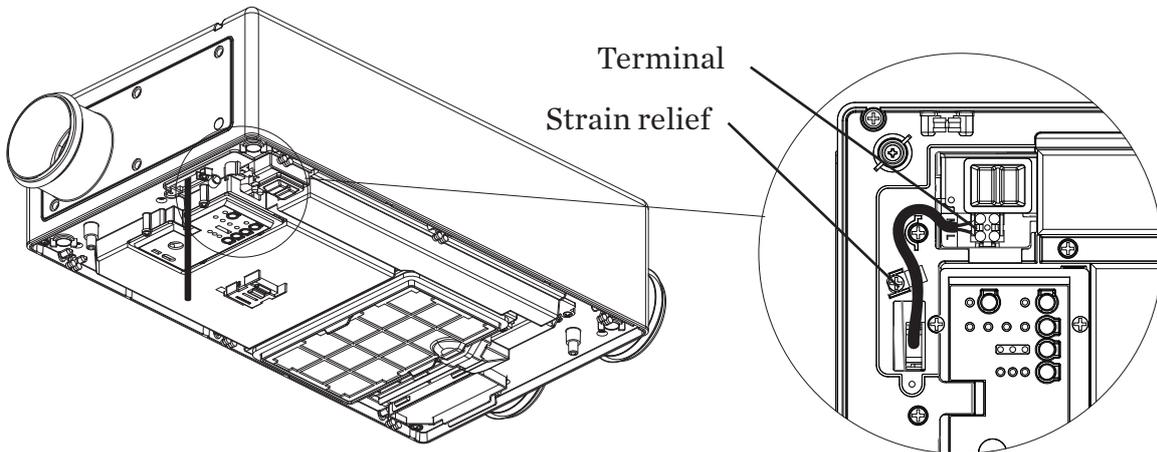
[16] Fix the unit with 4 screws in the mounting plate.
Use the attached long bit 200mm PH2.



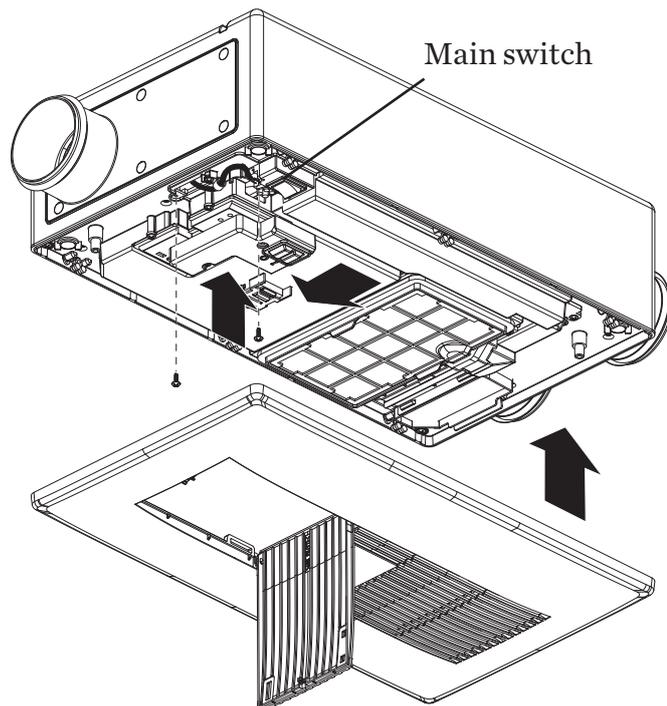
[17] Install the duct to the SA adapter and fix the duct and adapter with supplied screw.



[18] Cut and strip the cable to length, connect the cable to the N and L in the terminal and fit the strain relief.



[19] Replace the terminal box cover.
Turn on the main switch.
Then push the front panel on place and lock the panel with lever.



Technical specification.**PAX**[®]**UK**

Model Name	Pax Eos 100				Pax Eos 100H			
Model Number	1110-1				1110-2			
Model type	Standard				Standard with pre heater			
Voltage / Frequency [V] [Hz]	230VAC 50Hz							
Free blowing capacity [m ³ /h]	20	40	60	*80	20	40	60	*80
Power consumption [W]	3,0	7,5	16	25	3,5	8,0	18	25
When the heater is on [W]	-						375	-
Noise pressure level [dB(A)] 3m	18	21	27	35	19	22	29	35
Heat recovery efficiency [%]	80	78	75	-	80	78	75	-
Leakage [%]	5							
Motor type	DC motor							
Encloser class	IP24							
Insulation class	□ (class II)							
Certified	Intertek Ⓢ							
Other labels	CE							
Filter	OA: G4 / RA: G4							
Unit weight [kg]	9				9,5			
Installation	Qualified installer							

* Only exhaust blowing

FAQs**PAX**[®]

If you feel that the ventilation fan is not working properly, check out the following points first. If the trouble persists, turn off the power switch and contact your dealer or an authorized service centre.

General:

If you hear unusual sounds from the ventilation fan.

- Are ventilation- unit been installed on a sturdy and level ceiling/wall?
- It's normal to hear some noises when the ventilation starts or stops.

The LED light does not come on.

- Is the power to the ventilation on?
- Check your home's internal fuses.

Filter maintenance lamp blinks.



Check

- Check the filters and replace with new filters.

The unit can not be operated by remote control.

- Are the batteries exhausted?



Pax AB
Box 72
SE-648 06 Hälleforsnäs
Sweden

website: <http://www.pax.se>
tel,+46(0)157-75600 info@pax.se