

envirovent ATMOS Dual Ventilation Unit



# envirovent ATMOS Dual Ventilation Unit Installation Guide

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envirovent®

**envirovent ATMOS Dual Ventilation Unit**



## Specifications

- Product Name: Atmos & Atmos Dual Ventilation Unit
- Model: Atmos
- Dimensions: 373mm x 406mm x 406mm
- Filter Size: 406mm x 406mm

## Safety

Before installation, ensure you read and understand all instructions provided in the manual. Installation should be carried out by a competent person.

## Location

Check that there is adequate space for the unit in your chosen location. Ensure the unit does not interfere with open-flue appliances. Consult local regulations or a qualified gas engineer for guidance.

## Wiring Regulations

All wiring must comply with Building Regulations and current electrical standards. The final installation should be inspected and tested by a qualified electrician.

## Electrical Connection

The unit must be earthed and have a suitable isolator with a minimum contact separation of 3.0mm. Use the included unswitched fuse spur in the fixed wiring during installation.

## Users:

The unit is not intended for use by individuals with reduced capabilities or children without supervision. Children should be supervised to prevent misuse of the unit. Maintenance should not be performed by children.

## FAQ:

**Q: What should I do if I encounter problems during installation?**

A: Call us on 01423 810 810 for assistance.

**Safety**


Read and understand these instructions before beginning installation. The unit should be installed by a competent person.

**Location**

- Check there is space for the unit in your chosen location. The unit must not affect the operation of open-flue appliances. Consult local regulations or a qualified gas engineer.
- The open sides of the diffuser must face a minimum 1m unobstructed path away from any smoke detectors. If the diffuser cannot be repositioned, up to two sides can be closed using the plastic blanking plates. In this configuration the open sides must face a minimum 1.5m unobstructed
- path away from any smoke detectors. If using the 100mm diffusers, no blanking plates are supplied and the diffusers must be repositioned.
- In properties with a floor above 4.5m fire diffusers must be fitted a minimum of 1m away from the smoke detectors instead of the included plastic diffusers.
- Partition walls between buildings must be complete with any breaks filled.
- In properties with a floor more than 4.5m above ground level the unit must be wired into a smoke alarm (see page 14 for wiring information).
- The appliance is considered suitable for use in countries with a warm damp equable climate, but may also be used in other countries.

**Wiring Regulations**

All wiring must comply with Building Regulations and the current IET Wiring Regulations (BS7671 in the UK) or equivalent standards for other countries. The final installation should be examined and tested by a qualified electrician.

This product is not suitable for use with a Type AC RCD 

**Electrical Connection**

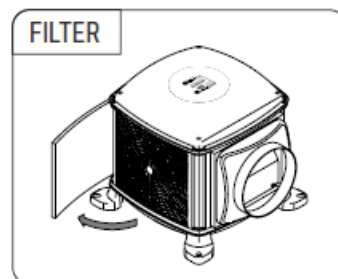
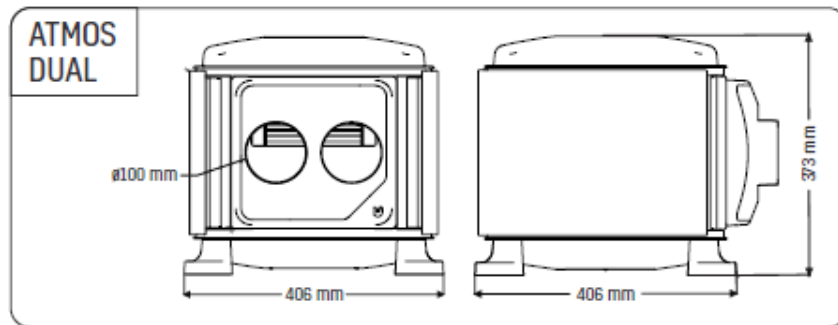
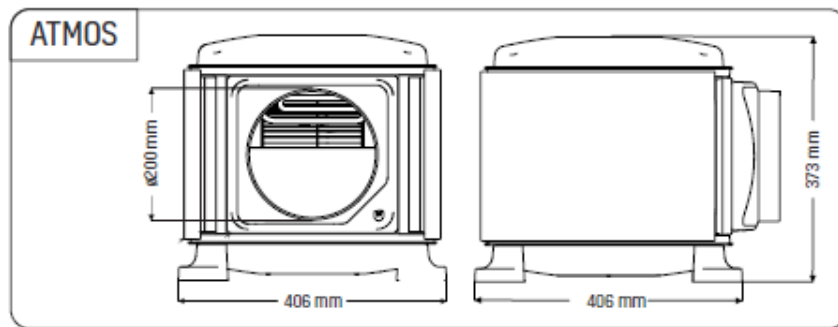
The unit must be earthed and a suitable isolator with a minimum contact separation of 3.0mm must be used to provide insulation for the unit. The unit must be able to be disconnected from the mains supply after installation. When wiring the unit, the included unswitched fuse spur should be incorporated in the fixed wiring.

The power supply cable running into the unit must remain the supplied flexible cable (not a solid core lighting cable). If the power supply cable becomes damaged, it must be replaced by EnviroVent, an authorised service agent for your region/country, or a similarly qualified person in order to avoid a hazard. Do not remove or tamper with any electronic components inside the product.

**Users**

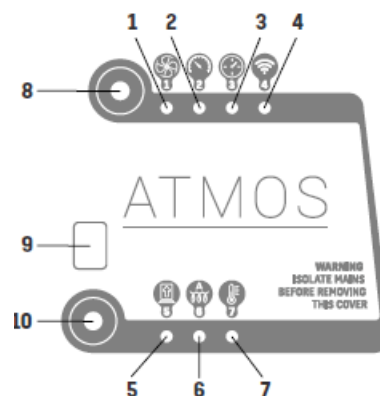
The unit is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities or lack of experience and knowledge, unless they have been given supervision and usage instruction by a person responsible for their safety. Children should be supervised to ensure they do not play with the unit. Cleaning and user maintenance must not be performed by children.

**Diagrams**



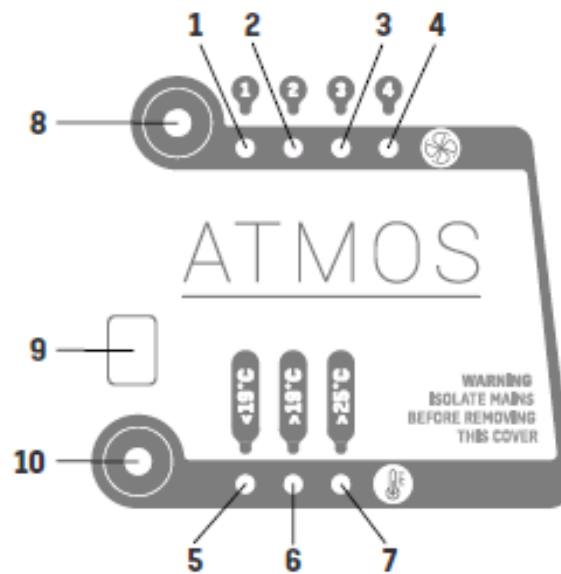
## KEYPAD – App / Remote Control / Inline units

1. Set Airflow
2. Variable airflow
3. Hours run
4. Wi-Fi
5. Filter
6. Auto comfort heater enable/disable
7. Temperature
8. Top button
9. Numeric Display 10 – Bottom button



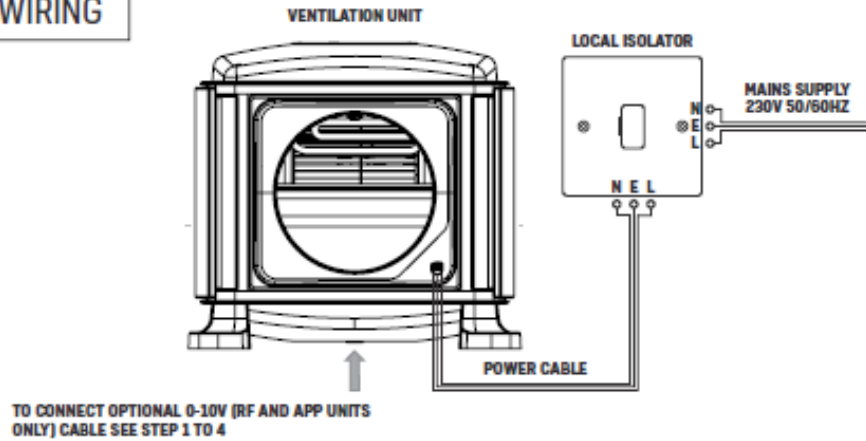
## KEYPAD – Standard units

1. 1 – Airflow 1
2. Airflow 2
3. Airflow 3
4. Airflow 4
5. Temperature <190C
6. Temperature >190C
7. Temperature >250C
8. Top button
9. Numeric Display
10. Bottom button

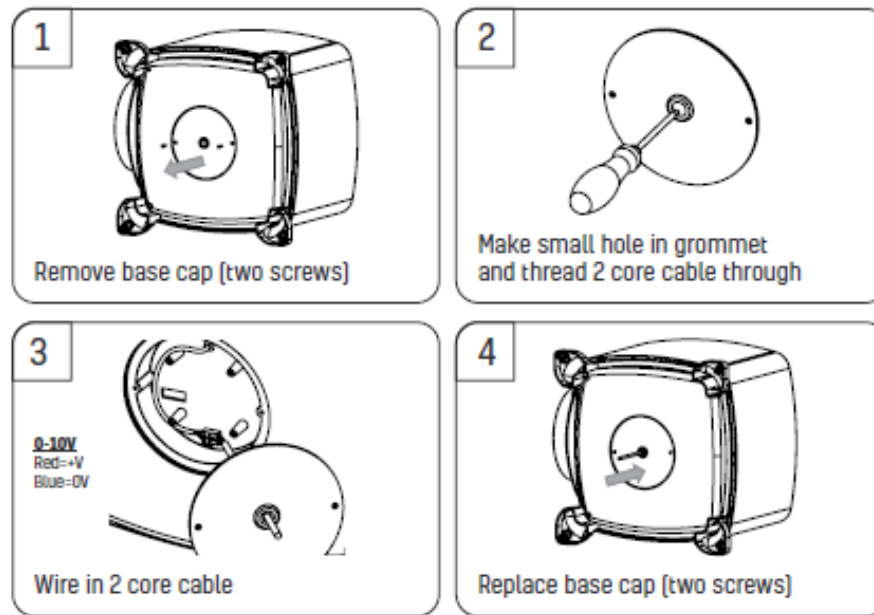


## WIRING

## WIRING



The local isolator must be connected to the mains as part of the fixed wiring. Connect the N, L and E cores of the power cable to the matching terminals on the local isolator.



## ATMOS box contents

- 1x ATMOS unit
- 1x 200mm diffuser (+ 2x blanking plates)
- 1x Instruction guide
- 1x Diffuser mounting template
- 1x Flexible duct (1m x 200mm dia.)
- 1x Unswitched fuse spur
- 1x Remote control (Remote Control units)
- 8x Foam pads
- 4x Washers
- 4x Screws 10g x 3"
- 4x Screws 10g x 1.5"
- 4x Screws 8g x 1.5"
- 4x Screws 8g x 1"
- 4x Plasterboard plugs
- 2x 200mm duct fixings

## **ATMOS DUAL box contents**

- 1x ATMOS DUAL unit
- 2x 100mm diffusers
- 1x Instruction guide
- 2x Flexible ducts (3m x 100mm dia.)
- 1x Unswitched fuse spur
- 1x Remote control (Remote Control units)
- 8x Foam pads
- 4x Washers
- 4x Screws 10g x 3"
- 4x Screws 10g x 1.5"
- 4x Screws 8g x 1.5"
- 4x Screws 8g x 1"
- 4x Plasterboard plugs
- 4x 100mm duct fixings

## **Pre – Installation Checklist**

- Does the unit fit through the loft hatch?
- Check there are no obstructions in the hallway or landing where the diffuser is to be fitted and in the loft space above.
- Ensure the loft has adequate cross-flow ventilation to provide a supply of fresh air to the unit.
- Check that all partition walls are intact. Seek building advice if any are missing or broken.
- Check for flued appliances drawing air from the loft, the user should be made aware of any of these.
- Check that any flue passing through the loft is undamaged. Seek building advice if any are damaged or broken.
- Repair any ceiling gaps which allow air leakage into the loft.
- Ensure any loft water storage tanks are covered and sealed.

## **About ATMOS and ATMOS Dual units**

The ATMOS and ATMOS DUAL are Positive Input Ventilation (PIV) units which create fresh and healthy living environments by supplying filtered air into a property at a continuous rate through ceiling mounted diffusers. The diffusers are normally installed in a hallway or landing area.

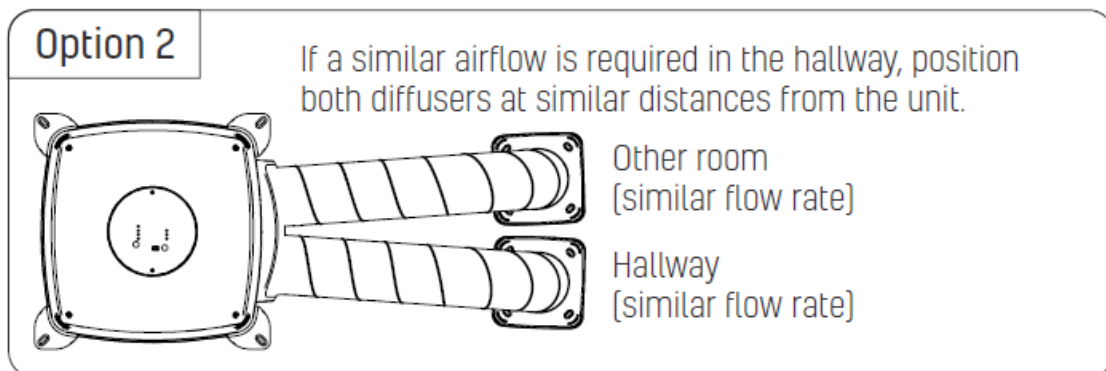
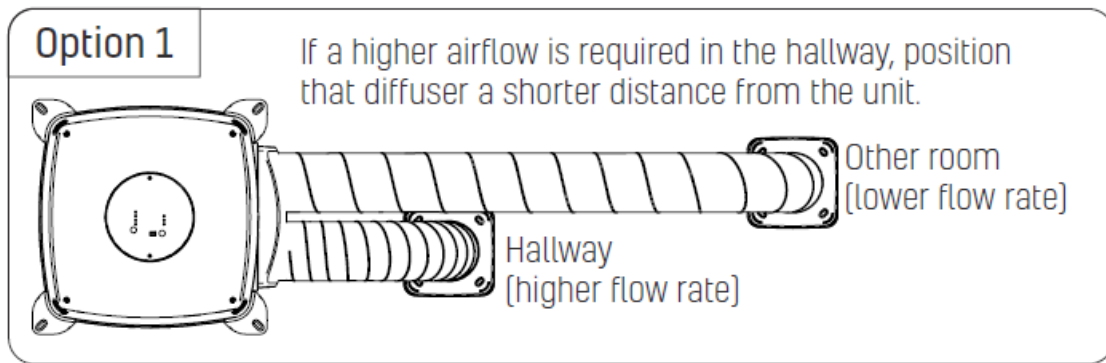
The units have been developed to improve indoor air quality and resolve condensation and mould problems. They are designed to operate continuously for 10 years with no requirement for maintenance other than replacement of the filter after 5 years and general cleaning.

In conditions between 19°C – 25°C the units will increase air flow rate by 10%. In hot conditions above 25°C the units will temporarily switch off to avoid bringing hot air into the property from the loft space. The ATMOS unit uses a single 200mm diffuser to provide air into a hallway or landing area.

The ATMOS DUAL unit uses two 100mm diffusers to provide airflow to separate locations within the building. It is normally required for applications where:

- The hallway is small.
- Limited heating is available.
- The loft hatch fills the hallway ceiling.

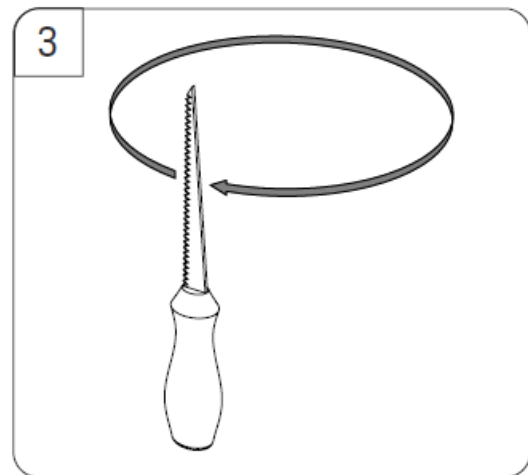
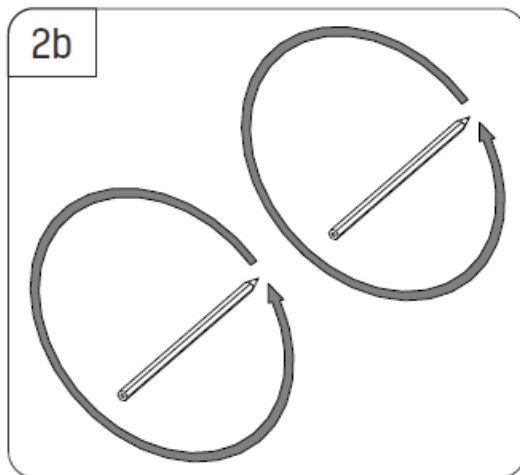
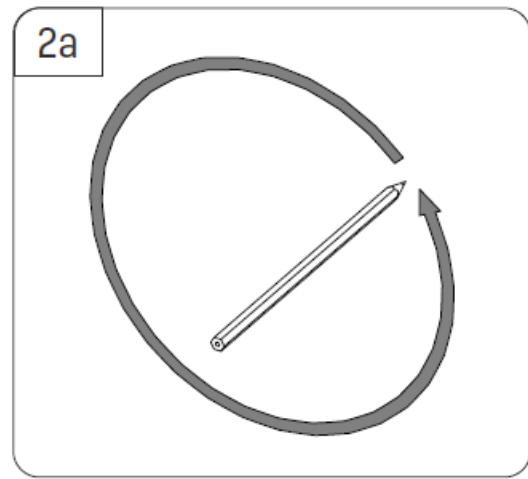
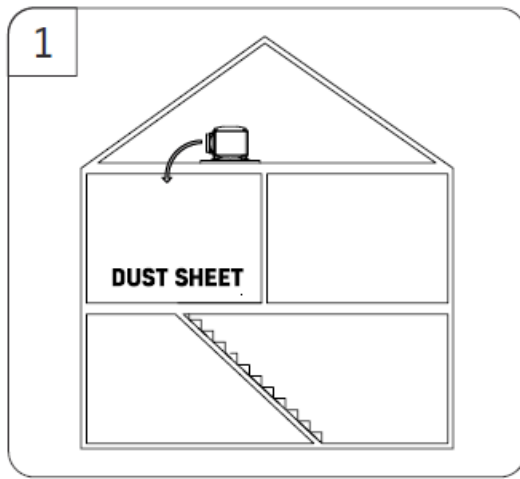
- Airflow is required in a remote area such as a bedroom.



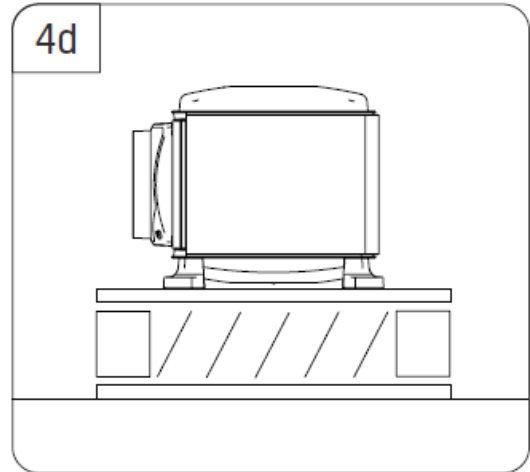
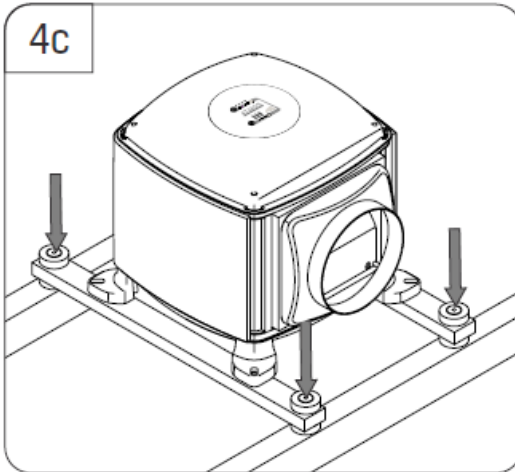
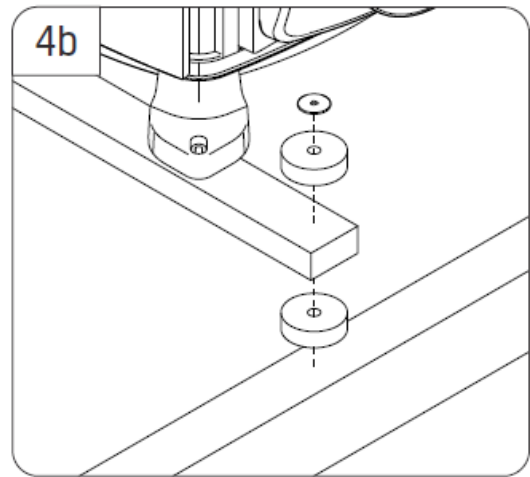
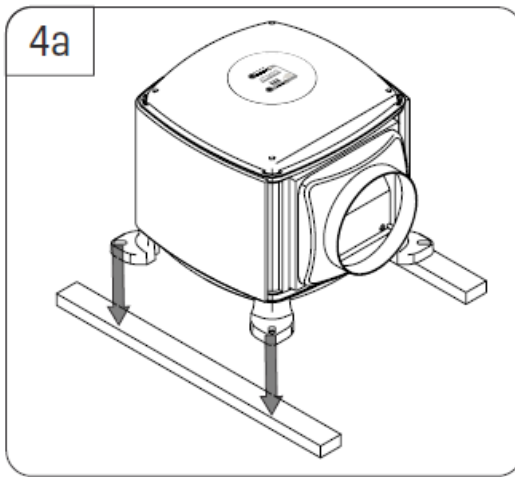
## Installation

1. Place a dust sheet below the required ceiling diffuser position and check the ceiling below and loft space above are unobstructed.
2. a) For ATMOS mark a 222mm diffuser hole using the template.  
b) For ATMOS DUAL mark two 105mm diffuser holes (see page 8 for positioning information).
3. Wearing a dust mask and eye protection, cut out the hole/s.

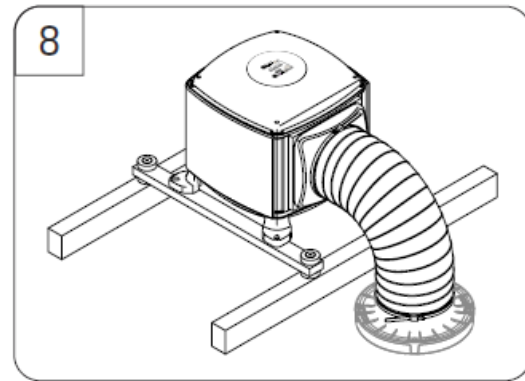
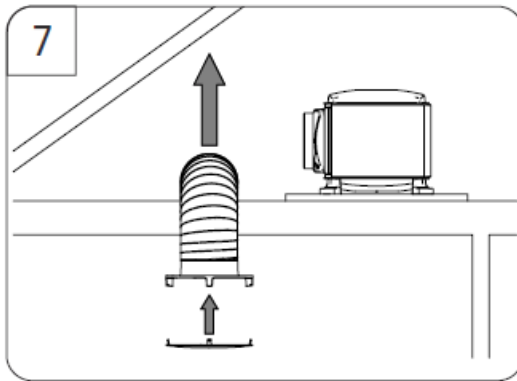
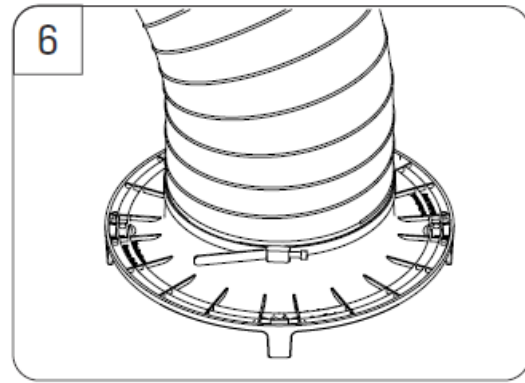
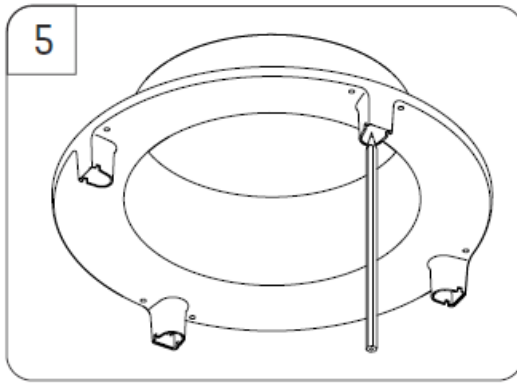




4. a) Screw the feet of the unit onto two 25mm x 50mm wood battens using the four 10g x 1.5" screws. (Battens not supplied).
- b) Position the unit with anti-vibration pads and washers onto the loft ceiling joists as in the diagram.
  - c) Screw the battens to the ceiling joists using the four 10g x 3" screws.
  - . d) If the loft insulation sits above the joists and impedes the unit, create a raised wooden platform to mount onto.



5. Insert the diffuser spigot into the ceiling hole so that the diffuser outlets face towards the walls then mark the four fixing holes.
6. Attach the duct to the spigot of the diffuser and seal the connection using the fixings supplied.
7. Insert the diffuser spigot into the hole then fix it in place.  
Use the four plasterboard plugs and four 8g x 1.5".  
Then clip the diffuser cover into the diffuser spigot.
8. Attach the flexible duct to the spigot on the unit and ensure it is pulled taught. Seal the connection tightly using the fixings supplied. Cut the duct to length if required.

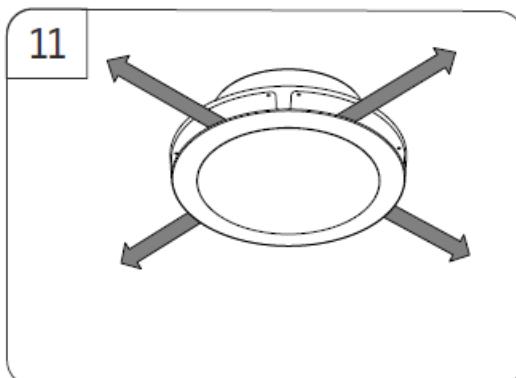
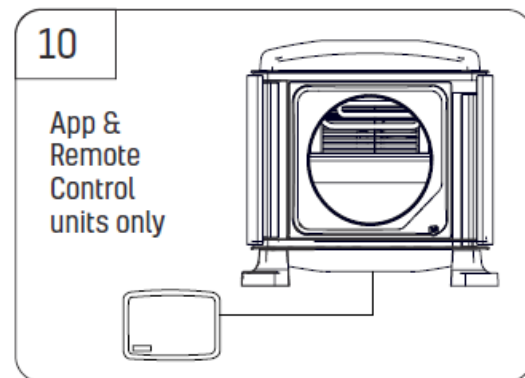
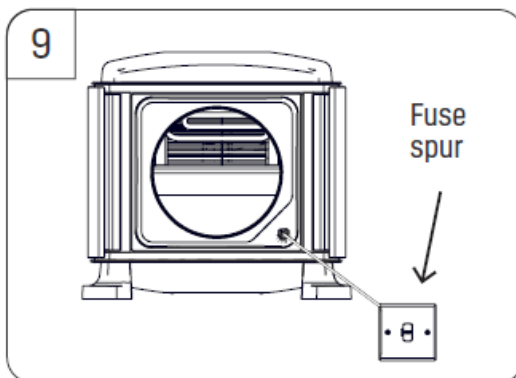


9. With the mains supply isolated, wire the power cable into the unswitched fuse spur then wire the unswitched fuse spur into the mains supply (see wiring diagram on page 5).

Use two of the 8g x 1" screws to attach the spur to a loft joist.

10. App and Remote Control units can be connected to an AirSens intelligent IAQ sensor (not included). Wire into the connection located under the unit (see Page 5, cable not included). See AirSens instructions for wiring.

11. Reconnect the mains supply at the local isolator. After a few seconds air will begin to flow from the diffuser (see pages 16/17 for air flow rate settings).



## Fire Safety Smoke Kits

For installations with a floor more than 4.5m above ground, a compatible smoke kit must be fitted. The kits listed below contain all the extra parts and instructions required:

Order Code	Description
KIT-PIV-SMOKE-125	PIV smoke kit with 1x 125mm diffuser
KIT-PIV-SMOKE-150	PIV smoke kit with 1x 150mm diffuser
KIT-PIV-SMOKE-200	PIV smoke kit with 1x 200mm diffuser
KIT-MIV-SMOKE-125	MIV smoke kit with 2x 125mm diffusers

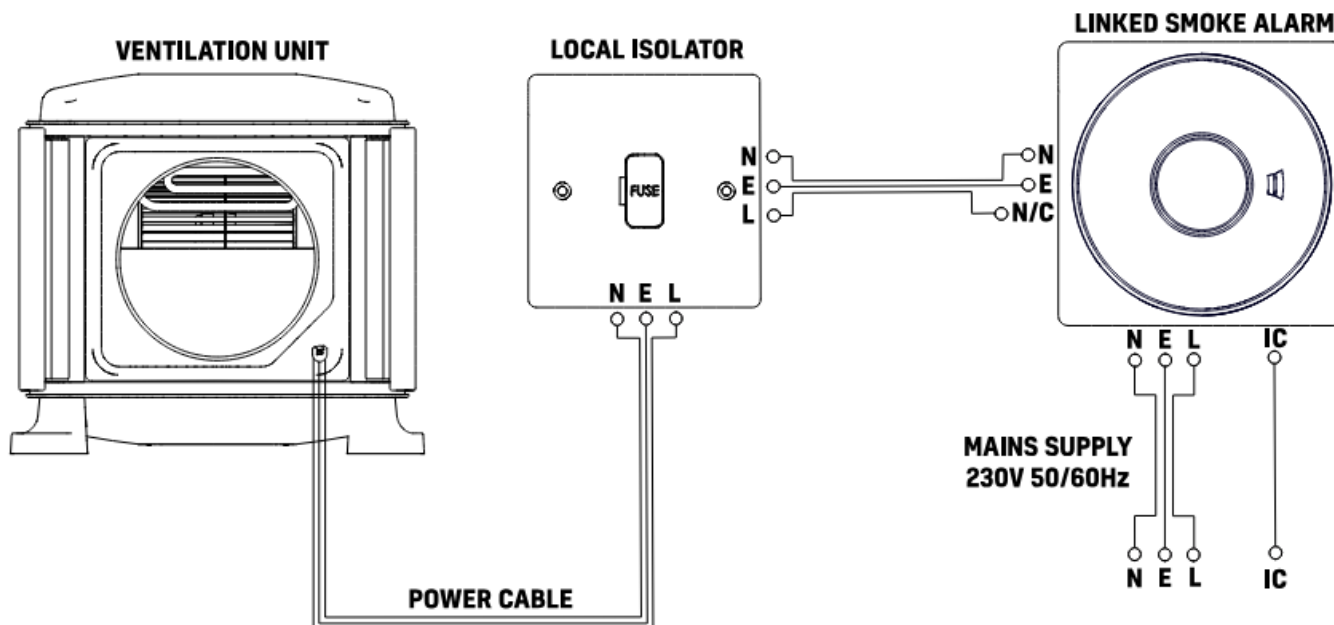
## Smoke Alarms

For installations with a floor more than 4.5m above ground, the unit must be wired into a smoke alarm in order to switch the unit off upon the detection of smoke.

The unit can be wired into an existing smoke alarm (check compatibility with the smoke alarm manufacturer). All wiring should be completed by a competent person.

To test the installation, press the TEST button on top of the smoke alarm and keep it pressed until the PIV unit switches off (LEDs on the board go out).

## SMOKE ALARM WIRING



## SETTINGS – Standard Units Top button

- Press to show the current air flow rate setting.
- The corresponding LED will illuminate on the keypad.
- Further presses scroll through the air flow rate settings 1, 2, 3 and 4 on a loop.
- Adjust this according to the size, type and occupancy of the property.

## Bottom button

- Press to show the total running time.
- The numeric display will illuminate to show the total amount of time the unit has been running. e.g. '1234' (hours)

### Wi-Fi App myenvirovent

App enabled units can be controlled using the myenvirovent app on Apple and Android devices. The SSID and password information for the unit is printed on the back page of this installation guide and also on a label attached to the unit.



A separate instruction guide for the myenvirovent app is included in the box. Once the unit has been installed, refer to this guide for connection and further settings.

## SETTINGS – App & Remote Control units




### Top button

- Press to activate the numeric display.
- Further presses scroll through the modes on a loop.
- The corresponding LED will illuminate on the keypad.

### Bottom button

- Press for 2 seconds to modify the settings for the highlighted mode.
- The corresponding LED will flash on the keypad.
- The current setting will be shown on the numeric display.
- Quick press to alter the setting. The available options will scroll on a loop.
- Press for 2 seconds to save changes to the selected mode.
- After 30 seconds of inactivity the current settings will be saved and the numeric display will turn off.


### Modes (corresponding display information is shown in bold)

1. Set air flow rate  : Factory set air flow rates '1' / '2' / '3' / '4'. Select according to the size, type and occupancy of the property.
2. Variable air flow rate:  Variable air flow rate for fine tuning '32'...'100' (increments of 2% from 32% to 100% of the maximum air flow rate). The mode will engage after the value has been selected.
3. Hours run:  Total time the unit has been running (hours).

4. Wi-Fi:  Access point 'F' / Network connected 'C' Press bottom button for 10 seconds to reset access point.

5. Filter usage:

- Total usage time remaining (days).
- Filter period setting '12' / '24' / '36' / '48' / '60' (months)

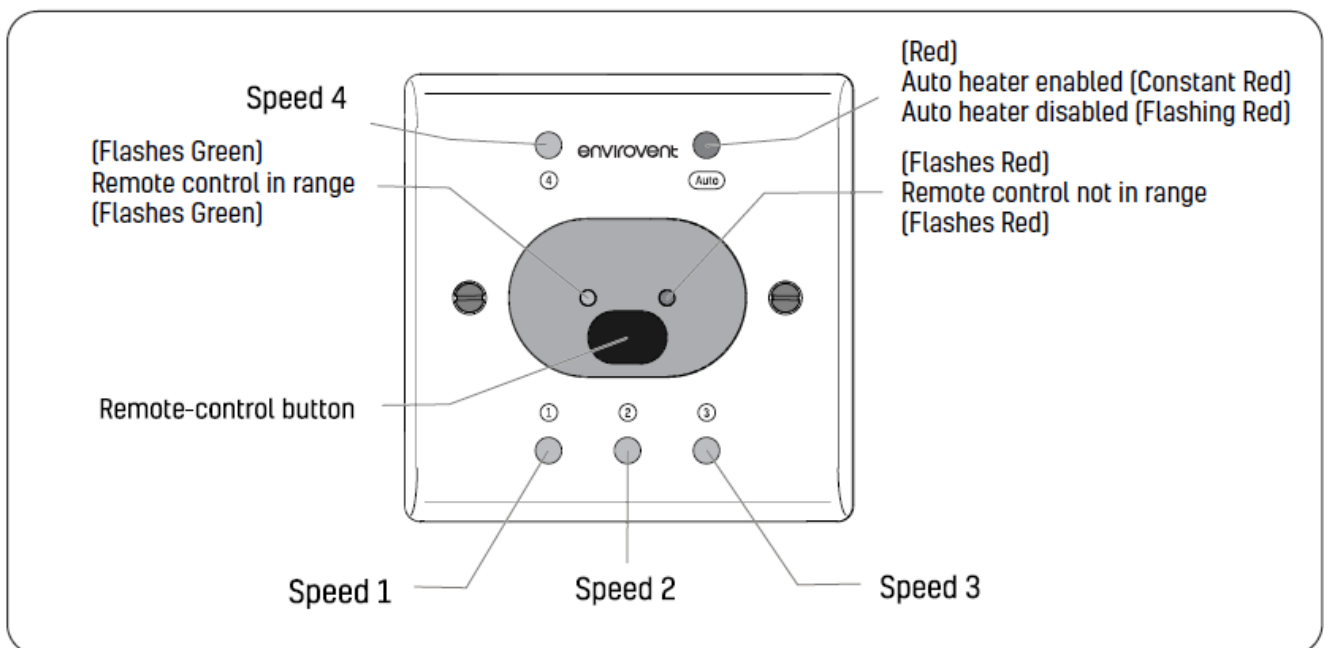
6. Additional modes: 

- Comfort heater: 'H0' / 'H-' (on / off)
- Comfort heater temperature: 'h5'...'h15'... (increments of 1°C from 5 to 15) Boost time: 'b20' / b40 / b60 / b720' (20 mins / 40 mins / 60 mins / 720 mins)
- Summer temperature: 't18'...'t28' (increments of 1°C from 18 to 28)
- Summer mode: 'd0' / 'd-' (on / off)
- Kick up: 'U0' / 'U-' (on / off)

7. Comfort Heater on/off: 

LED will illuminate when the heater is powered.

## Wireless Remote Control



- To indicate the current status of the unit:
  - Press the remote-control button once and the LEDs will light up according to the current status of the unit.
- To modify the air flow rate:
  - Press the remote-control button once
  - Further presses will then cycle the unit through each of the air flow rate settings – 1 , 2 , 3 , 4
  - Further presses will cycle back through the same settings
- To enable/disable the automatic comfort heater function:
  - Press the remote-control button once.
  - Press again for 5 seconds to disable comfort heater function.

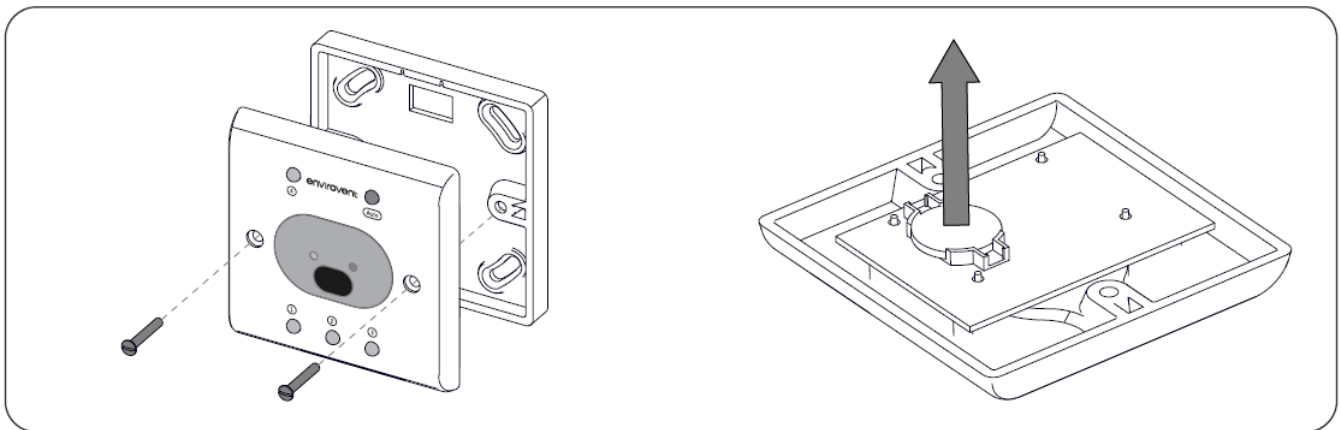
- AUTO LED will flash red for 5 seconds.
- Press again for 5 seconds to enable comfort heater function.
- AUTO LED will light constant red for 5 seconds.

### Pairing an additional remote control:

1. Turn the unit off at the isolation point.
2. Restore power; for 20 seconds from restart the unit will be in pairing mode.
3. Press the remote-control button once within the 20 seconds and the control will pair to the unit.
4. Successful pairing is indicated by a green light on the remote.

### Remote-control batteries

When the battery needs to be replaced, unscrew the switch front cover. The battery is located on the back of the cover. Battery type 3V Lithium CR2032. The switch will remain paired with the unit after battery replacement. Ensure the new battery is inserted with correct polarity, and the removed battery is safely disposed of.



### Energy Usage and Airflow Performance

House size setting	Max air flow rate (l/s) <sup>a</sup>	Power usage (Watts) <sup>b</sup>
1.	21	4
2.	29	4
3.	38	6
4.	49	9

- The diffuser installed without blanking plates fitted.
- Power usage shown with comfort heater function disabled.

### Running costs

Please scan our QR code to  
see the annual running costs  
of this product.



Or visit: [envirovent.com/annual-running-costs](https://envirovent.com/annual-running-costs)

## Spares/Accessories

Item Description	Order Code
Replacement coarse particle filter (ISO Coarse 65%)	FILTERPIV-COARSE
Replacement medium particle filter (ePM10 50%)	FILTERANC-MEDI
Replacement fine particle filter (ePM2.5 50%)	FILTERANC-FINE
Replacement coarse particle filter including carbon (ISO coarse 65% including carbon)	FILTERANC-COARSE+C
Replacement 200mm diffuser	1DIFPIV
Replacement 100mm diffusers	1DIFEVLSML1
Fixing kit – ATMOS	FIXINGKITATL
AirSens IAQ sensor ( CO2 model )	AIR-CO2
AirSens IAQ sensor ( RH model )	AIR-RH
AirSens IAQ sensor ( VOC model )	AIR-VOC
Duct Clamp 100mm	DUCTCLAMP100MM
Duct Clamp 165mm	DUCTCLAMP165MM
Duct Clamp 200mm	DUCTCLAMP200MM
Smoke alarm*	1ACSMOKEALARM-KIT

## Maintenance

The ATMOS and ATMOS Dual units are designed to operate for 10 years before requiring a full service.

In order to maintain the 10 year warranty, the filters must be replaced at the 5 year point. The unit should be isolated from the power when replacing the filters.

If there are very high amounts of particulate matter in the air and loft space, the filter will need to be replaced more frequently.

## Warranty

We appreciate you choosing this quality EnviroVent product, which is designed and manufactured to the highest



specification in Harrogate, North Yorkshire. We are confident that you will be delighted with the performance of the system and the resulting improvement in air quality in your home after the installation of the unit.

This unit is covered by a full 10-year warranty. There is no requirement for maintenance other than replacement of the filter after 5 years and general cleaning.

The warranty covers any defect or break down that arises due to faulty materials or construction. Please note that a receipt will be required as proof of purchase. Any units bought from an unapproved source, including but not limited to auction websites, are not covered by this warranty.

### Your unit serial number

For warranty conditions and exclusions, visit [www.envirovent.com/warranty](http://www.envirovent.com/warranty)

### What should I do if I have a problem?

You should not dismantle or remove any parts of the unit other than those instructed in this guide. Tampering with the unit will void the warranty. For further assistance, please call 01423 810 810.

AFTER COMPLETING INSTALLATION, PASS THIS GUIDE ON TO THE END USER FOR FUTURE REFERENCE

DO NOT THROW AWAY

Leading Manufacturer & Supplier of Innovative & Sustainable Ventilation Systems

### EnviroVent Ltd

Harrogate West Business Park Unit 1 Bardner Bank Killinghall

### Harrogate

- HG3 2SP
- T / 01423 810 810
- E / [info@envirovent.com](mailto:info@envirovent.com) W / [envirovent.com](http://envirovent.com)

### E&OE | MKT ENV356 – V10 – 04.03.24

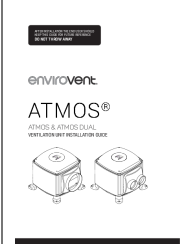
Due to our policy of continuous innovation and improvement, EnviroVent reserves the right to alter products specification and appearance without notice.

### We want to hear from you

Your feedback is important to us as we strive to improve our products, services, and overall customer experience. Please email us to help us serve you better: [feedback@envirovent.com](mailto:feedback@envirovent.com)

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## Documents / Resources

	<p><a href="#">envirovent ATMOS Dual Ventilation Unit</a> [pdf] Installation Guide ATMOS Dual Ventilation Unit, ATMOS, Dual Ventilation Unit, Ventilation Unit</p>
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## References

-  [Product Warranty Information | EnviroVent](#)
- [User Manual](#)

[Manuals+](#), [Privacy Policy](#)

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