Social Housing

Vent Trex - Ventilation

Titon®
ventilation systems

Ventilation

is key to a home's and occupant's health

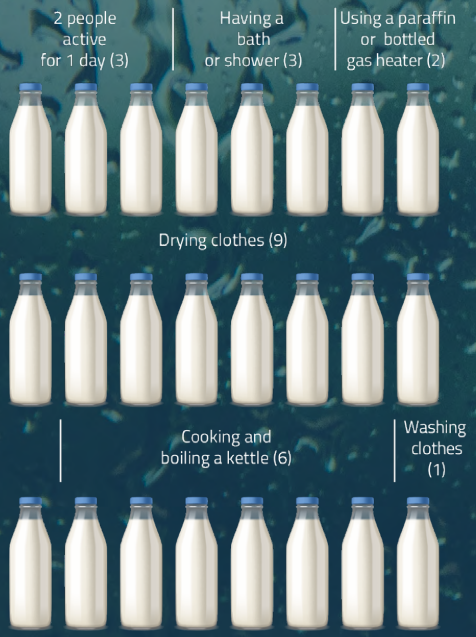
It is estimated that we can spend more than 92% of our time indoors[1] and this can lead to indoor air being more polluted than outdoor air. As a result of this, a large amount of moisture is exposed and condensation being formed.

Condensation can be formed in two ways; from water vapour that is cooled to its dew point. Or, when the air becomes so saturated with water vapour that it can't hold any more moisture. If there is no where for this moisture to go, then it stays trapped inside a home.

Condensation built up can lead to mould, which can cause ill health. Mould can release spores that produce allergens, irritants, and mycotoxins[2] and exposure to mould spores in the home can exacerbate eczema and asthma.[3]

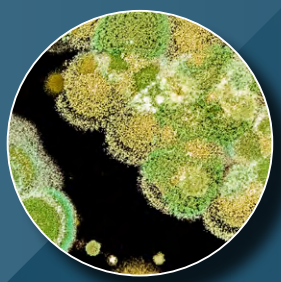
Condensation is especially common in winter and if not dealt with quickly, can encourage mould growth, with around 1 in 18 households in the UK reported to have experienced some form of mould.[4]

Our everyday activities contribute to moisture within a home. Breathing adds moisture; one sleeping person adds half a pint of water to the air overnight, and at twice that rate when active during the day. To give you some idea of how much moisture can be produced in a day, see example below[5].



Total amount of moisture produced in your home in 1 day

= 24 pints



With homes becoming more airtight, it's important to allow them to breath, to allow air to flow. Landlords and social housing projects need to 'Ventilate when you insulate' to make sure that tenants have no health issues or building damage is caused further down the line.

References:

1 - https://road.cc/content/news/217728-brits-spend-92-all-their-time-indoors
2 - AXA. What causes condensation and how to stop it. Accessed: November 2021. [https://www.axa.co.uk/home-insurance/tips-and-guides/what-causescondensation-and-how-to-stop-it/].
3 - Medical News Today. Is mould in your house a problem? What you need to know. Accessed: November 2021. [https://www.medicalnewstoday.com/articles/288651#mold-and-health].
4 - Metro. How to get rid of mould in a rented home. Accessed: November 2021. [https://metro.co.uk/2021/10/30/how-to-get-rid-of-mould-in-a-rented-home-15513721/].
5 - https://www.solihullcommunityhousing.org.uk/images/stories/fleximedia/condensation-leaflet.pdf

Vent-Trex

Overhead extract fan/trickle ventilator

For use on PVCu, timber or aluminium windows

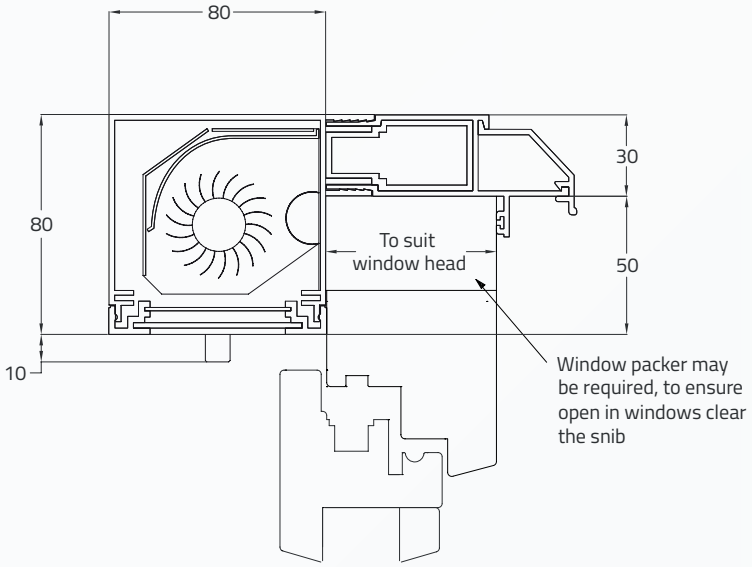
Vent-Trex is a unique combined overhead extract fan and trickle ventilator for kitchens and bathrooms that fits within the aperture on top of the window frame.

Vent-Trex is ideal for landlords when renovating where wall penetration is undesirable, as it does not damage the fabric of the building or where external aesthetics need to be preserved.

It provides a trickle ventilation performance Equivalent Area (EA) of 2500mm² minimum and extract ventilation rates to suit either kitchens or bathrooms.

Features & Benefits

- Unique combined extract fan/trickle ventilator
- Suitable for all window types
- Integral with window, ideal for refurbishment situations
- Avoids damage or penetration of building fabric
- Easy to install
- Saves wall space
- Low installation costs compared to traditional extract ventilators
- Bathroom version – single speed (15l/s)
- Kitchen version – two speed (60l/s and 30l/s)
- 2500mm² EA minimum
- Low energy usage
- Easy to clean
- Easy to maintain
- IP24 rating
- Pull cord switch and power on indicator
- Humidistat option available (integral)
- Available with remote PSU (SELV) option for bathrooms
- Standard, continuous power, continuous running and cord control versions available
- Suitable for use in conservation areas



Details

Standard Version

The Pull cord or ceiling switch must be pulled to switch the unit on, where fitted humidity sensing will only trigger the unit when the unit is on.

The unit is provided with a number of different options, these being:-

- Built in humidity sensor, which triggers at a pre set relative humidity
- Remote PSU – low voltage option for bathrooms (12v)
- External mesh - reducing the likelihood of large insects, leaf etc. entering the unit.
- Remote Switching
- Slider – to close / open the unit

	Minimum Length to Achieve 30l/s Low Speed 60 l/s high speed	Minimum achievable width*
Kitchen	1200mm	430mm

	Minimum Length to Achieve 15l/s	Minimum achievable width*
Bathroom with integral PSU	540mm	430mm
Bathroom with external PSU	510mm (540mm with hum)	360mm (390mm with hum)

Continuous Power

The Pull cord or ceiling switch must be pulled to switch the unit on manually, the unit will always respond automatically to a change in humidity

The unit is provided with a number of different options, these being:-

- Remote PSU – low voltage option for bathrooms (12v)
- External mesh - reducing the likelihood of large insects, leaf etc. entering the unit.
- Remote switching
- Slider – to close / open the unit.

Always includes a built in humidity sensor, which trigger at a pre set relative humidity

	Minimum Length to Achieve 30l/s Low Speed 60 l/s high speed	Minimum achievable width*
Kitchen	1200mm	430mm

	Minimum Length to Achieve 15l/s	Minimum achievable width*
Bathroom with integral PSU	540mm	430mm
Bathroom with external PSU	540mm	430mm

Continuous Running

The fan will run at low speed continuously and increasing to the higher speed on pulling the pull cord.

The unit is provided with one option, this being:-

- External mesh - reducing the likelihood of large insects, leaf etc. entering the unit.

Always with integral PSU, no slider or Humidity sensor

	Minimum Length to Achieve 8.7l/s Low Speed 21.6 l/s high speed	Minimum achievable width*
Kitchen	870mm	430mm

	Minimum Length to Achieve 8.6l/s Low Speed 11.8 l/s high speed	Minimum achievable width*
Bathroom	540mm	430mm
Bathroom with external PSU	540mm	430mm

Cord Control

The unit has two pull cords one each side. One to open the slide and switch the fan ON, one to close the slide and switch the unit OFF.

The unit is provided with a number of different options, these being:-

- Built in humidity sensor, which trigger at a pre set relative humidity
- Remote PSU – low voltage option for bathrooms (12v)
- External mesh - reducing the likelihood of large insects, leaf etc. entering the unit.
- Remote Switching

Always with slider

	Minimum Length to Achieve 30l/s Low Speed 60 l/s high speed	Minimum achievable width*
Kitchen	1200mm	450mm

	Minimum Length to Achieve 15l/s	Minimum achievable width*
Bathroom with integral PSU	540mm	450mm
Bathroom with external PSU	410mm	380mm

General Options

- Handing pull cord, and cable entry can be left or right handed (viewed from inside)
- Cable entry can front or end entry
- External mesh can be fitted.

Power Details	Finish
230V AC Voltage / Power Consumption (standard version) 12V Bathroom – 3.95W @ 15l/s (540mm length) (Integral PSU) 24V Kitchen – 21W @ 60l/s (1200mm length) (Integral PSU) Motor protection: IP24 Rating CE marked according to LVD and EMC directives	White finish as standard to RAL 9010. Can be supplied in different colours. External canopy and internal fan can be coloured independently. Details available on request.