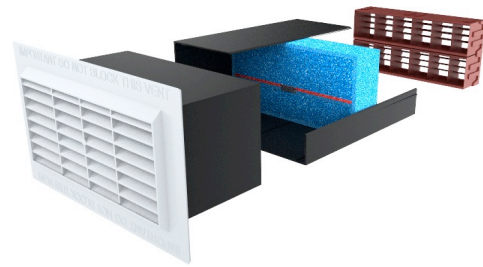




## TRITON HOME VENT - TECHNICAL DATA SHEET

Triton Home Dry Vent offer a range of passive ventilation units designed to allow water vapour to escape from a building in a controlled way. The patent pending triple action filter promotes the escape of damp air with minimal heat loss. Cold draughts are restricted by a specially designed thermal core within the filter. The Triton Home Dry Vent cavity liner is constructed from High Impact Polystyrene (HIP) to reduce cold bridging and provide increased strength and resistance to distortion. Triton Home Dry Vent extension kits are available to suit all wall thicknesses.



Condensation affects a large number of older properties due to the increase in water production brought about by modern lifestyles. At the same time, doors and windows are draught proofed and chimney flues sealed. The result can be unhealthy mould growth on cold surfaces and in poorly ventilated areas.

Triton Home Dry Vent is designed to ventilate bedrooms and living rooms where the constant background ventilation it provides allows water vapour to escape. One air brick ventilator is usually sufficient for a single room of up to 20m<sup>2</sup> floor area, alternatively two core drill ventilators can be installed. Each unit is supplied with positioning and installation instructions. For kitchens and bathrooms where water production is likely to be more spontaneous, mechanical ventilation should be used.

At a typical inside temperature of 20° and relative humidity of 70% 1m<sup>3</sup> of air contains 0.0125kg of water, creating a vapour pressure of 1.4 kPa above, which there is an increased risk of mould growth. At an air velocity of 0.09m/s Triton Home Dry Vent diffuses up to 0.12kg of water per hour or 2.8 litres of water over a 24 hour period powered only by the vapour pressure differential that exists between inside a property and the external environment.

Model	Velocity	Air diffusion / hour	Water diffusion / hour	Water dissipated over 24 hours
Air brick ventilator	0.09m/s	9.34m <sup>3</sup>	0.12kg	<b>2.8 litres</b>
Core drill ventilator	0.09m/s	3.98m <sup>3</sup>	0.05kg	<b>1.2 litres</b>
High rise ventilator	0.09m/s	3.98m <sup>3</sup>	0.05kg	<b>1.2 litres</b>

*Water vapour diffusion through the range of Triton Ultrovent ventilators at an air velocity of 0.09 m/s, 70% relative humidity and a temperature of 20°C.*

	0.08m/s	<b>0.09m/s</b>	0.1m/s	0.11m/s
Air brick ventilator	2.5 litres	<b>2.8 litres</b>	3.1 litres	3.4 litres
Core drill ventilator	1 litre	<b>1.2 litres</b>	1.3 litres	1.4 litres
High rise ventilator	1 litre	<b>1.2 litres</b>	1.3 litres	1.3 litres

*The effect of changes in air velocity on water vapour diffusion through the range of Triton Home Dry Vent ventilators at 70% relative humidity and a temperature of 20°C*

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