

# Roof Ventilation for Single Story Dwellings

During the summer months a house absorbs incredible amounts of heat, more so if the roof is a dark colour.



The heat in the roof attic area begins to build up somewhat like a pressure cooker. This pressure will eventually overload insulation, allowing heat to travel through and add to discomfort levels in the living area below.

A Condor Kinetic Roof Ventilator will reduce the thermal pressure in the roof and allow the house to maintain better comfort levels. This also happens to a tile roof, especially if it is sarked, in spite of the so called 'gaps between tiles'.

A tile roof is slower to cool, than a steel roof, during the evening purge cycle.

The evening purge cycle is critical as it is this that allows the building to enter the following day cool without residual load from the previous day

Air-conditioned houses, either refrigerated or evaporative, benefit considerably by having a Condor Kinetic Roof Ventilator installed, to eliminate air conditioner overload and reduce power consumption by some 45% and more in some cases due to lack of need.

Ceiling registers are a mechanical device that fits in the ceiling, is manually opened, push/pull mechanism, and closed on demand.

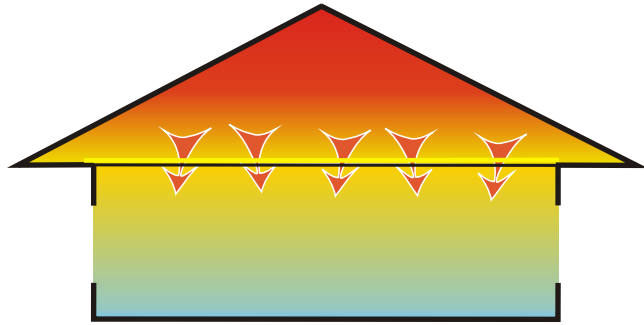
This allows for efficient evening heat purging of a room during summer and when closed, prevents heat loss during winter months. Electrically operated airflow controllers, for roof ventilators are also available if the roof is being used as a heat transfer area.

## Condor Roof Ventilator sizes for

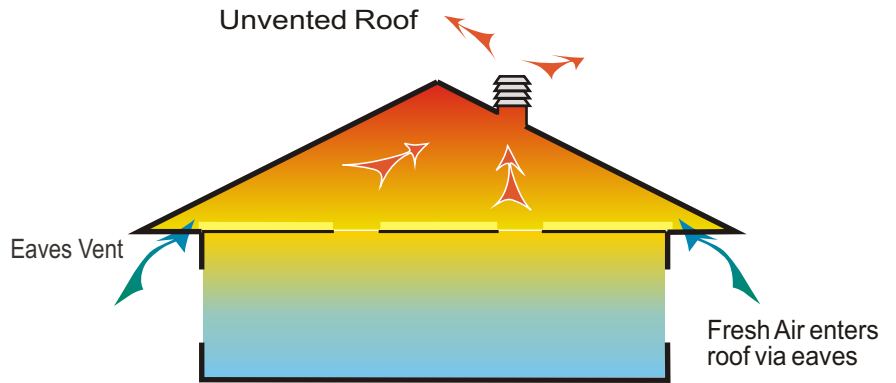
- 140 sq/m roof area Venturi 300
- 210 sq/m roof area Vortex 350
- 280 sq/m roof area Vortex 450

One appropriately sized roof ventilator is always more efficient than multiple smaller due to convergence efficiency.

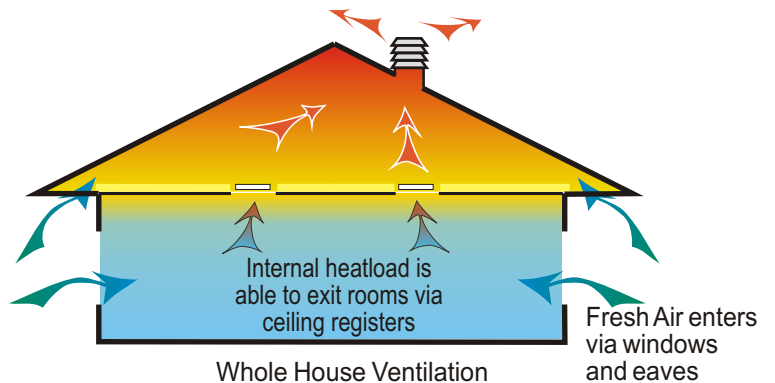
On an additional note, a well ventilated secure roof will not lift off during a cyclonic storm due to inability to pressurize.



Unvented Roof



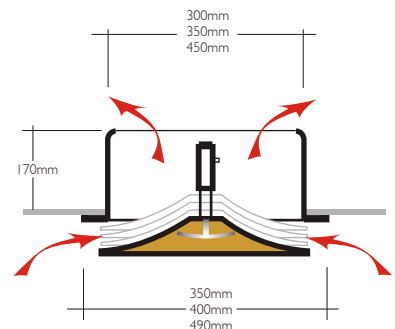
Roof Ventilation



Whole House Ventilation



Ceiling Register is installed in ceilings of individual rooms



Eaves Vent stainless steel / White



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