

A161 HUMIDITY CONTROLLED EXTRACT GRILLE

The A161 humidity controlled extract grille provides the automatic control on the intelligent Passive Stack Ventilation (iPSVTM) system, opening and closing in response to changes in relative humidity to ensure the ventilation rate is at the required level to continuously combat moisture and condensation.

The extract grille contains a number of nylon strands which respond to changes in relative humidity, opening and closing the louvres on the ventilator thereby increasing or decreasing the ventilation area as and when required.

At low levels of relative humidity the extract never fully closes providing a low level of background ventilation to ensure continuous ventilation.

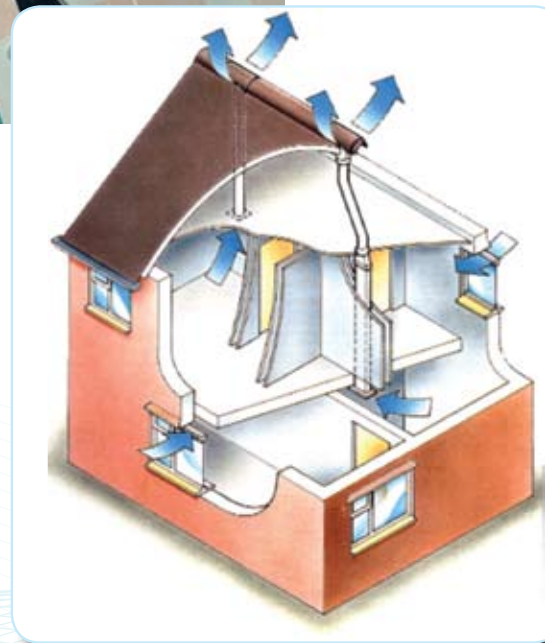
An independent study by the BRE has shown that humidity controlled extract grilles, can save up to 40% in ventilation heat loss compared with standard, constantly open extract grilles.

OPENING RESPONSE RATES

(to 65% relative humidity as an example) To time the opening rate, a controlled test environment was increased from 30%RH to 65%. This increase took 14 minutes. The A161 extract grille sensed the rise and opened to the relevant rate to allow 90m³/hr in 14 minutes.

CLOSING RESPONSE RATES

(to 30% relative humidity as an example) When the relative humidity was decreased it took 31 minutes for the room to reach a level of 30%. After this the extract takes 6 minutes to close to the low trickle rate.



FEATURES

Fully automatic

Being controlled by the relative humidity of the room, the occupant does not need to worry about the level of ventilation

Energy Efficiency

Being non-electrical, the A161 extract is ideal as part of an energy efficient ventilation system

Visually Unobtrusive

The attractive design ensures that the extract is aesthetically pleasing to the occupant

Flexibility

The A161 Extract Grille can be either wall or ceiling mounted

Ease of Installation

As there are no electrical connections to be made, installation is made as simple as possible

Simple Maintenance

With no electrical parts to malfunction, the A161 requires minimal maintenance

the **economy**
ventilation
company 

The Ultimate Solution to resolve Mould, Condensation and restore clean air



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Airflow @ 80Pa Minimum: 15m³/hr (4l/s)

Maximum: 110m³/hr (30l/s)

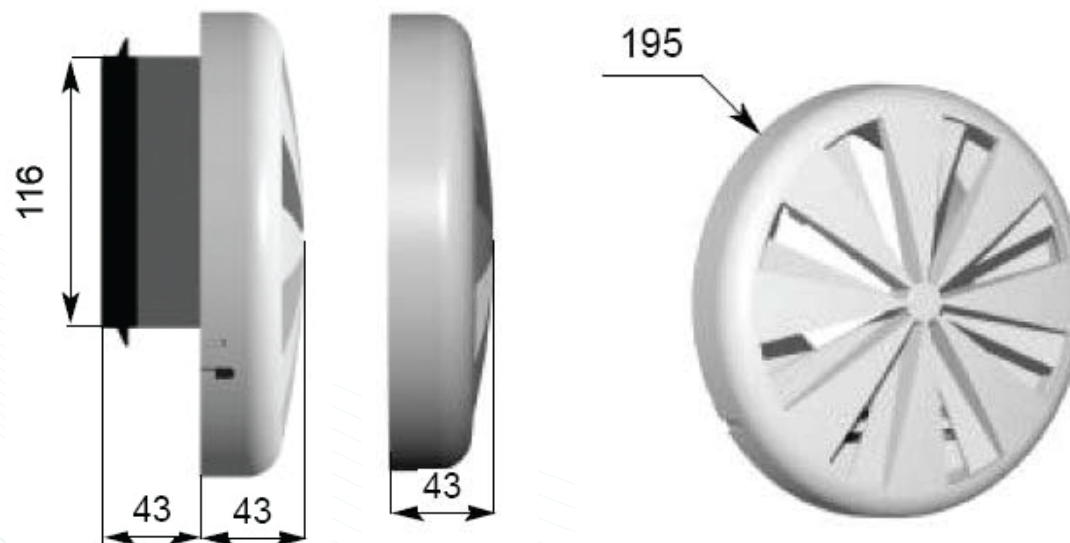
Control Method: Humidity Controlled

DIMENSIONS

External Diameter: 195mm

Thickness: 43mm

Spigot Diameter: To fit 125mm ducting

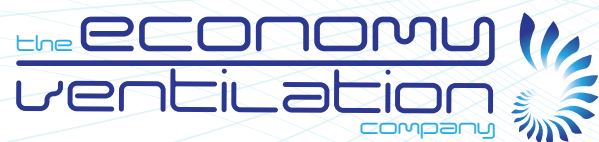


Specification

A161 ~ Automatic Humidity Sensitive extracts in wet rooms operating between 30-75% relative humidity. Extract Diameter: 195mm. Spigot size: Ø 125mm.

Installation to be in accordance with the manufacturer's instructions, and to be carried out by a trained installer holding a current certificate.

Layout and installation must comply with any design recommendations supplied.



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