



Features

- Slimline design for window, masonry or curtain wall installation
- Ultra low U value at less than $1\text{Watt}/\text{M}^2/\text{K}$
- Ultra low leakage at less than 5m^3 per hour per sq m
- High weathering and rain resistance (Up to Class A - BS EN 13030)
- Choice of Louvre
- High Free Area
- Optional heating coils and silencers
- Wide range of internal fascia grilles
- Complimentary controls package



Mistrale 75

GILBERTS NATURAL VENTILATION SYSTEMS
The Complete Solution



Mistrale 75

Natural ventilation simply uses the naturally occurring pressure differential forces of air movement, wind and buoyancy to deliver a steady supply of fresh air for building ventilation and space cooling.

In an environment where energy conservation is at a premium naturally ventilating a building can offer the best of both worlds combining little or no energy

consumption with low capital costs, whilst still providing adequate fresh air and comfort temperature conditions throughout the year. Indeed, with plant room eliminated, the space required for services minimised and lower servicing/maintenance costs Natural Ventilation now makes for one the most practical choices of the day.

The Mistrale 75 is a compact natural ventilation inlet that has been specifically designed to fit in to both curtain walls, masonry and windows. A typical Mistrale 75 cassette comprises of an "Class A " 50 or 75mm pitch external weather proof louvre

and a low leakage, insulated air volume damper to control the air movement . Additional components such as silencers, heating/cooling coils and internal fascia grilles can also be added

Sizes ranging from 200 x 225 up to 2000 x 1050 enabling us to cater for a wide variety of airflow requirements. Multiple units to support large screen or continuous run louvres are also available.

Ultra Low Leakage Damper

[tested to BS EN 1751]

The air volume control damper is one of the key components in any natural ventilation system and is designed to provide accurate and stable airflow whilst presenting a solid thermal barrier with negligible draughts when closed. Mistrale 75 volume control damper is a unique design that offers extremely low leakage, when closed, of just 5m³ per hour per square metre (compared to a permissible level of 10)

Ultra Low U Value

Configured using fire retardant (VO Rated) insulating UPVC blades and seals with thermal infill the Mistrale 75 has an extremely low U value of just less than 1 watt/m²/k. This compares favourably with any commercially available double glazed unit preventing wasteful heat loss or gain. Specialised casing design also eliminates cold bridge effects with heat transfer dramatically reduced.

Total Control

Mistrale natural ventilation systems operate automatically with the damper typically motor driven in accordance with a demand signal from the building controls. Total integration into the building control strategy is also possible either using Gilberts own control system or a full building management suite

We have the expertise in both stack effect, wind driven and even mixed mode systems. Roof top terminals, Sidewall terminals, Window terminals, Dampers, External weatherproof louvres and External grilles all provide for a complete natural ventilation solution.

Designed and built here.....in the UK.

For any help or guidance on you next project please contact our technical team at Head office.



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