

QUADRIFLOW

LOW PROFILE HEAT EXHAUST VENTILATION

The Curvent Quadriflow is a low-profile labyrinth 4 – tier high heat load exhaust ventilator to enhance ventilation velocity of heavy industrial buildings and smelter plants. By replacing the roof sheeting with a ventilator, the designer can position the exhaust directly above the heat source, thereby allowing high heat plumes to exhaust without restriction. Without this sophisticated ventilation system, the intense heat and smoke contained within the confined areas will cause extreme discomfort to the working environment. It also protects the structural integrity of the building. The Curvent Quadriflow is designed to provide permanent ventilation.

The system allows for institute installation, eliminating costly crainage establishment and operating costs, making this ventilator the most cost-effective system to naturally ventilate high heat load industrial buildings. The ventilator provides for ultimate airflow under high heat loads. The Curvent Quadriflow ventilator is renowned for its proven versatility. The ventilators are custom-built to suit any purlin spacing and roof profiles. The ventilator is available in variable material thickness ranging from 0.6mm to 2mm. The ventilator blades are fully interchangeable with alternative material finishes.

Model Type	Quadriflow 4 Tier
Free Measured Throat Area (Av)	42% open
Coefficient of Discharge (Cv)	0.35
Ventilator Size	Any length down slope across ridge (width) in modules of 410mm wide
Mild Steel Mass (Kg/m²)	45
Certificate of Compliance – Tested to BS7346: Part 1: 1990. Curvent International (Pty) Ltd hereby certify that the Curvent Quadriflow 4-tier low profile smelter ventilator is tested in accordance with BS7346: Part 1: 1990. Flow measurements (Pitot tube traverse) and pressure measurements was in accordance with BS 848: Part 1: 1980. The results stipulated in this data sheet represent a true record of the measured parameters and the derived values were calculated using scientifically correct formulae. The dimensions and area of the ventilators represent a true record of the measured parameters with the test sample being 1:1 and is verified by a qualified independent body.	

SPECIFICATION PROCEDURE:

The Curvent Quadriflow 4-tier low profile ventilator specifications will be unique to comply with the required design. A typical specification will be similar to the following:

1. Select the area of ventilation required
2. Select the material thickness required
3. Select the ventilator material type
4. Select a mono pitch or cranked roof installation
5. Select the roof pitch



EXAMPLE:

A specification for 1000m², 1mm thickness in Aluminum material, would be:

1000m²Curvent Quadriflow 4 tier low profile high heat ventilator manufactured in 1mm Aluminium material, cranked to roof slope of 10°, installed in accordance with the manufacturer's detailed installation specifications.



Optional Accessories

Bird Guards
Flashings
Framed Modules
Ridge Modules

Product Material Finishes

Galvanised
Aluminium
Powder Coating
Zincalume
Chromadek

Product Features

- No Wind Loading and Light Weight 30kg/m² to 45kg/m²
- Most Cost-Effective High Heat Ventilation
- Reduce Building Structural Fatigue
- Extremely Robust Construction
- Material Thickness Alternatives
- Material Finish Alternatives
- Increase Indoor Air Quality
- No Operating Costs
- 1 Year Product Guarantee