

Multisky

All Weathered Ventilator

Smoke & Natural Ventilator

Tested to BS-EN 12101: Part 2: 2003



Overview

Multisky is a fully weathered ventilator specifically developed for smoke and natural ventilation for industrial applications combining the EN Tested Roof Opensky with our industrial Mutli-Purpose Ventilator with side dampers for fully weathered natural ventilation.

Multisky Ventilator Body

Construction

1.5mm Press formed Aluminium

Energy Saving Options

Can be provided with energy saving insulation

Side Dampers Control Options

The multisky's side dampers can be supplied with either Pneumatic or Electric actuators.

Finish Options

Mill finish aluminium.

Polyester powder coating to a standard BS or RAL colour.

Base Types & Installation

- Turndown Base - mounting onto weathered roof up-stand
- Flat Base - mounting directly onto roof sheeting

(Can be installed along the ridge, downslope directly onto the roof sheeting or on to an upstand)

Roof Opensky - Top Vent

Construction

Press formed and cleated 1.5 mm mill finish aluminium.

Louvre Blade Options

1.5 mm single skin aluminium

2.0 mm translucent double-skin polycarbonate

Double-skin 1.5 mm aluminium with 25 mm polyurethane insulation.

Louvre Blade Pivots

6 mm diameter solid aluminium bearings in shouldered nylon66 bushes for maintenance-free operation.

Louvre Blade Seals

Polypropylene brush and pile seals.

Finish Options

Mill finish aluminium

Polyester powder coating to a standard BS or RAL colour

Control Options

Opensky is available with the following standard control options;

Electric - 24v Drive Open/Drive Close (EN12101)

Pneumatic - Air To Open/Air To Close (EN12101)

Product Specification

Installation & Base Types

The Multisky can be installed along the ridge and downslope using either of the following:

- Turndown Base - mounting onto weathered roof up-stand
- Flat Base - mounting directly onto roof sheeting

Opensky Louvre Blade Options

The roof Opensky can be supplied with both insulated louvre blades and an insulated body to assist in ensuring the building is adequately insulated.

The comparative U-Values for the available louvre blades options are as follows;

Louvre Specification	U-Value
Single Skin Aluminium (1.5mm)	6
Insulated Blades (25mm PIP)	0.66
Polycarbonate Blades (2mm Translucent)	1.75

Translucent polycarbonate louvre blades provide excellent daylighting using a durable UV stabilised material. When closed it can provide an average diffused light transmission in excess of 80%, enabling savings on artificial lighting. Pile weather seals are also fitted to the louvre blade edges and sides to minimise heat loss.

Control Options & Certification For Opensky Top Vent

The Multisky is available with either of the following control options.

Control Options	Tested To
Electric - 24v Drive Open/Drive Close	EN-12101
Pneumatic - Air To Open/Air To Close	EN-12101

Testing

The roof Opensky has been tested to BS EN 12101 – Part 2: 2003: Specification for natural and heat exhaust ventilators. The allows the Multisky Ventilator to be used within a SHEV system.

Test	Class	Test	Class
SN- Pneumatic	SL-500	Temp (Low)	T (-5°C)
SN - Electric	SL-125	Temp (High)	B-300

Free Area Tables & Technical Drawings

Multisky

*The Multisky side damper free areas are for day to day natural ventilation only - The EN12101 Part 2 2003 tested Opensky at the top of Multisky is for smoke ventilation

Multisky Side Dampers Free Areas For Natural Ventilation For All Widths			Multisky Width (mm)	2266		2366		2466		2566		2666		2766		2866		2966		3066		3166		3266	
			Opensky Width (mm)	1000		1100		1200		1300		1400		1500		1600		1700		1800		1900		2000	
Multisky Length (mm)	Av	AvCv	Opensky Length (mm)	Av	AvCv	Av	AvCv	Av	AvCv	Av	AvCv	Av	AvCv	Av	AvCv	Av	AvCv	Av	AvCv	Av	AvCv	Av	AvCv	Av	AvCv
890	0.49	0.33	870	0.63	0.47	0.70	0.52	0.77	0.57	0.83	0.62	0.90	0.67	0.97	0.73	1.04	0.78	1.11	0.84	1.18	0.89	1.25	0.94	1.32	0.99
1090	0.60	0.41	1070	0.81	0.59	0.90	0.65	0.99	0.72	1.08	0.78	1.17	0.84	1.25	0.91	1.34	0.98	1.43	1.04	1.52	1.12	1.61	1.18	1.70	1.24
1290	0.72	0.49	1270	0.99	0.70	1.10	0.77	1.21	0.85	1.32	0.92	1.43	1.00	1.54	1.09	1.65	1.16	1.75	1.23	1.86	1.33	1.97	1.40	2.08	1.47
1490	0.83	0.56	1470	1.17	0.82	1.30	0.91	1.43	1.01	1.56	1.09	1.69	1.17	1.82	1.26	1.95	1.36	2.08	1.45	2.21	1.53	2.33	1.65	2.46	1.73
1690	0.94	0.64	1670	1.36	0.95	1.50	1.05	1.65	1.14	1.80	1.26	1.95	1.36	2.10	1.45	2.25	1.55	2.40	1.68	2.55	1.77	2.70	1.87	2.85	2.00
1890	1.05	0.71	1870	1.54	1.07	1.71	1.19	1.88	1.30	2.04	1.41	2.21	1.54	2.38	1.65	2.55	1.77	2.72	1.91	2.89	2.02	3.06	2.13	3.23	2.24
2090	1.15	0.78	2070	1.72	1.20	1.91	1.32	2.10	1.47	2.29	1.59	2.48	1.71	2.66	1.86	2.85	1.99	3.04	2.11	3.23	2.27	3.42	2.40	3.61	2.53
2290	1.27	0.86	2270	1.90	1.34	2.11	1.47	2.32	1.63	2.53	1.77	2.74	1.91	2.95	2.04	3.16	2.22	3.36	2.35	3.57	2.49	3.78	2.63	3.99	2.77
2490	1.38	0.94	2470	2.08	1.48	2.31	1.63	2.54	1.81	2.77	1.96	3.00	2.11	3.23	2.26	3.46	2.45	3.69	2.60	3.92	2.76	4.14	2.91	4.37	3.06
2690	1.49	1.01	2670	2.27	1.63	2.51	1.79	2.76	1.99	3.01	2.15	3.26	2.32	3.51	2.48	3.76	2.65	4.01	2.81	4.26	2.98	4.51	3.15	4.76	3.31
2890	1.60	1.09	2870	2.45	1.78	2.72	1.96	2.99	2.14	3.25	2.31	3.52	2.49	3.79	2.67	4.06	2.85	4.33	3.02	4.60	3.20	4.87	3.38	5.14	3.56
3090	1.71	1.16	3070	2.63	1.90	2.92	2.09	3.21	2.28	3.50	2.47	3.79	2.66	4.07	2.86	4.36	3.05	4.65	3.24	4.94	3.43	5.23	3.62	5.52	3.81
3290	1.83	1.24	3270	2.81	2.03	3.12	2.23	3.43	2.43	3.74	2.64	4.05	2.84	4.36	3.04	4.67	3.24	4.97	3.45	5.28	3.65	5.59	3.85	5.90	4.05
3490	1.94	1.32	3470	2.99	2.15	3.32	2.37	3.65	2.58	3.98	2.80	4.31	3.01	4.64	3.23	4.97	3.44	5.30	3.66	5.63	3.87	5.95	4.09	6.28	4.30

Av = Geometric Free Area (m2) - Performance may vary depending on the build of the blade as per Approved Doc B (Applicable for the Opensky only)

AvCv = Areodynamic Free Area (m2) - Results obtained during EN12101 Part 2 testing using wind shields (Applicable for the Opensky only)

- Typical Detail Of Multisky Vent

- Turndown Base

