

Ventilation Smoke Control

Test Parameters and results for the Powrmatic Smoke Control range of products certified to EN 12101-2.

Powrmatic and EN standards

All of the smoke control products listed in this leaflet have been tested to international standards and have been CE Marked.

European standards are technical standards drafted and maintained by CEN, CENELEX AND ETSI. Standards include requirements and/or recommendations in relation to products, systems, processes or services. Standards can also be used to describe a measurement or a test method or to establish a common terminology within a specific sector.

Powrmatic products have been tested to EN 12101-2. This standard covers products in the sector of smoke control. EN12101-2 covers Natural Smoke and Heat Exhaust Ventilators (NSHEV's).

Test Parameters for NSHEV's (EN 12101-2)		Appendix of EN12101-2
Coefficient of discharge (As Data)	Test define the aerodynamic free area, to ensure the NSHEV will perform efficiency.	B
Reliability classification RE class (Re 50, 1000)	How many times the NSHEV can be opened in its smoke and heat exhaust mode. Test to ensure that the ventilator will be reliable.	C
Snow load SL class (SL 0, 125, 250, 500, 1000 N/m ²)	Maximum snow load class under which the NSHEV will open. Test to ensure that NSHEV will open and stay open under load	D
Low ambient temperature classification T class (T -25, -15, -05, 00°C)	Test to check at what low internal ambient temperature it is possible to operate the NSHEV	E
Wind load WL class (WL 0, 1500, 3000 N/m ²)	Maximum wind load class for the NSHEV. Test to ensure that when closed the NSHEV can withstand the negative (suction) pressure of the class.	F
Resistance to Heat B class (B 300, 600°C)	Test to check at what high temperature the NSHEV can be opened and made to stay open.	G

**** The exact value depends on the ventilator size/ opening angle and operation selected. Highest Value Shown in Results Section**

Technical Performance

Opensky

Appendix	Parameter	Result
B	Coefficient CV**	Up to 0.70m ^{2**}
C	Reliability	RE 1000
D	Snow Load	SL 125 – LKS200 SL 500 - Pneumatic
E	Low Ambient Temperature Classification	T (00)
F	Wind Load	WL 1500
G	Resistance to Heat	B 300



Krystalite – G12 TG 24, TG24SG, TG 24-32, TG-35

Appendix	Parameter	Result	
		G12	TG 24, TG24SG, TG 24-32, TG-35
B	Coefficient CV**	Up to 0.56m ^{2**}	Up to 0.56m ^{2**}
C	Reliability	RE 1000	RE 1000
D	Snow Load	SL 0	SL 0
E	Low Ambient Temperature	T (00)	T (-05)
F	Wind Load	WL 2500	WL 3000



Stirling

Appendix	Parameter	Result
B	Coefficient CV**	Up to 0.62m ^{2**}
C	Reliability	RE 1000
D	Snow Load	SL 750
E	Low Ambient Temperature Classification	T (-05)
F	Wind Load	WL 1000
G	Resistance to Heat	B 300



Ultrasky

Appendix	Parameter	Result
B	Coefficient CV**	Up to 0.63m ^{2**}
C	Reliability	RE 1000
D	Snow Load	SL 125
E	Low Ambient Temperature Classification	T (-05)
F	Wind Load	WL 2000
G	Resistance to heat	B 300



Multi Sky

Appendix	Parameter	Result
B	Coefficient CV**	Up to 0.70m ²
C	Reliability	RE 1000
D	Snow Load	SL 500
E	Low Ambient Temperature Classification	T (00)
F	Wind Load	WL 1500
G	Resistance to heat	B 300

