

# Certificate

## PERFORMANCE CERTIFICATE

This is to certify that the range of powered smoke extract ventilators manufactured by

**The Flakt Woods Group**  
**Axial Way**  
**Colchester**  
**Essex**  
**CO4 5ZD**  
**UK**

and known as the

**JM Aerofoil HT series**

has complied with the requirements identified in BSEN 12101-3:2002 and ISO 21927-3 for high temperature performance. Items from the range were selected for test in accordance with the parameters laid out in Annex A of BS EN 12101-3: 2002 and ISO 21927-3, and were tested for high temperature performance in accordance with the procedures detailed in Annex C of the same standards.

The Flakt Woods Group is authorised to use the BSRIA Mark on the range of products shown in the Appendix, for the appropriate time/temperature categories.

Certificate number:- C18421/1, Issue 4

Date of Issue:- 29 April 2010

Date of expiry:- 29 April 2013

Issuing Engineer: M A Roper

Approving Engineer: William B Booth

To authenticate this certificate, visit [www.bsria.co.uk/certificates](http://www.bsria.co.uk/certificates), or contact BSRIA Limited.

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## Appendix to Certificate C18421/1 Issue 4

Details of the certified powered smoke extract ventilator range –details of the motors that may be fitted are listed on a separate sheet.

Range name:- JM Aerofoil HT Series

Temperature/ Time/ Classification	Fan Range	Impeller Material	Supporting BSRIA Reports
200°C / 2 Hr / F200	31JM to 160JM	Aluminium	17867B/4
250°C / 2 Hr / Not classified	31JM to 224JM	Aluminium	17867B/2, 17867B/3 SP Report P703020A SP Report P703020B
300°C / 1 Hr / F300	31JM to 224JM	Aluminium	17867B/2, 17867B/3 SP Report P703020A SP Report P703020B
300°C / 1.5 Hr / Not classified	31JM to 224JM	Aluminium	17867B/2, 17867B/3 SP Report P703020A SP Report P703020B
300°C / 2 Hr / Not classified	31JM to 224JM	Aluminium	17867B/2, 17867B/3 SP Report P703020A SP Report P703020B
400°C / 2 Hr / F400	31JM to 125JM	Aluminium	17867B/1, 50090/2
400°C / 1 Hr/ Not classified	31JM to 140JM	Aluminium	17867B/1, 50090/2, SP Report P703020C

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## Appendix to Certificate C18421/1 Issue 4

Details of the certified motors that may be fitted to the powered smoke extract ventilator range

Temperature/ Time/ Classification	Motor Manufacturer (Frame Size Range)	Motor kW Range	Supporting BSRIA Reports
200°C / 2 Hr / F200	Fläkt Woods TEAR motors (BT, CT, F22 and PM112) Teco TEAR motors - IEC rated (132 to 180)	0.032 to 6.2  2.20 to 22.0	17867B/4
250°C / 2 Hr / Not classified	Teco TEAR motors (80 to 250)  WEG TEAR motors (80 to 355)	0.21 to 86.3  0.216 to 336	18288/2, 19000/2  17867B/2, 17867B/3 SP Report P703020A
300°C / 1 Hr / F300	Teco TEAR motors (80 to 250)  WEG TEAR motors (80 to 355)	0.21 to 86.3  0.216 to 336	17867/7, 19000/2  17867B/2, 17867B/3 SP Report P703020A
300°C / 1.5 Hr / Not classified	WEG TEAR motors (80 to 355)	0.216 to 336	17867B/2, 17867B/3 SP Report P703020A
300°C / 2 Hr / Not classified	WEG TEAR motors (80 to 355)	0.216 to 336	17867B/2, 17867B/3 SP Report P703020A
400°C / 2 Hr / F400	WEG TEAR motors (80 to 250)	0.216 to 86.3	17867B/1, 50090/2
400°C / 1 Hr / Not classified	WEG TEAR motors (80 to 280)	0.216 to 127	17867B/1, 50090/2, SP Report P703020C

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