

## Certificate

Certificate No: 53580/1

Issue No: 1

Date of issue: 15 April 2010

### PERFORMANCE CERTIFICATE

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

**Systemair GmbH**  
**Seehöfer Str. 45**  
**D-97944 Windischbuch**  
**Germany**

and known as the

**AXC, AXR and AJ Ranges**  
**(315mm – 1600mm Diameter)**

has complied with the requirements identified in BSEN 12101-3:2002 and ISO 21927-3 for high temperature performance within the **F400 (400°C, 2Hr)** time temperature classification. 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. A summary of the approved range may be found on page 2 of this certificate.

Certificate number:- 53580/1  
Date of Issue:- 15 April 2010  
Date of expiry:- 15 April 2013

Issuing Engineer: M A Roper

Approving Engineer: P Stonard

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## Appendix to Certificate C53580/1

Details of the certified powered smoke extract ventilator range

### Ventilator Range Details

Ventilator Manufacturer	Systemair GmbH
Ventilator Range Title	AXC, AXR and AJ Ranges
Ventilator Type	Axial
Motor Mounting	Pad

### Impeller Range

Impeller Range Details	AXC, AXR and AJ Ranges
Smallest Diameter Fan	315mm
Largest Diameter Fan	1600mm
Most Highly Stressed Model	AXR 710-10

### Motor Range

Motor Manufacturer	Brook Crompton
Motor Range	Fumex Motors, 400°C 2Hrs
Smallest Frame, Largest Output	WA-DF80ME-P, 0.75 kW
Largest Frame, Largest Output	WP-DF280MN, 75kW
Bearing Fit	C3
Bearing Lubricant	Molykote DC41

### Test and Application Classes

BS EN 12101-3 Test Classes	F200 (200°C, 2Hr) F300 (300°C, 1Hr) F400 (400°C, 2Hr)
Test Temperature	400°C
Test Time (Hours)	2 Hrs
Application Classes	Uninsulated Smoke Reservoir and Non Smoke Reservoir Dual Purpose No Ducted Cooling Air Required Horizontal and Vertical orientation Form A and Form B operation
Supporting reports	BSRIA Report 53580/1

Issuing Engineer: \_\_\_\_\_  
M A Roper

Approving Engineer: \_\_\_\_\_  
P Stonard