

EC Certificate and Declaration of Performance in accordance with Construction Products Regulation (EU) No. 305/2011 (CPR)

Powered Smoke and Heat Control Ventilator (Fan)

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|---|---|
| 1. Unique identification code of the product type: | HT JM / JMv Aerofoil |
| 2. Type, batch, or serial number or any element allowing identification of the construction product as required pursuant to Article 11 (4): | |
| 3. Intended use or uses of the construction product, in accordance with the applicable harmonized technical specification, as foreseen by the manufacturer: | Smoke and heat control systems |
| 4. Name, registered trade name or registered trade mark and contact address of the manufacturer as required pursuant to Article 11 (5): | Fläkt Woods Limited t/a Woods Air Movement
Axial Way
Colchester CO4 5ZD
United Kingdom
Registered in England no. 233771 |
| 5. Where applicable, name and contact address of the authorized representative whose mandate covers the tasks specified in Article 12 (2): | Not applicable |
| 6. System or systems of assessments and verification of constancy of performance of the construction product as set out in Annex V: | System 1 |
| 7. In case of the declaration of performance concerning a construction product covered by a harmonized standard: BSI Group The Netherlands B.V., John M. Keynesplein 9, 1066 EP Amsterdam, The Netherlands (Notified Body No. 2797) performed type tests on products, inspection of manufacturing plant and continuous surveillance of factory production control under system 1 of Annex V and issued certificate no. 2797-CPR-474878 | |
| 8. In case of the declaration of performance concerning a construction product for which a European Technical Assessment has been issued: | Not applicable |
| 9. Declared performance: | |

Essential characteristics	Performance	Harmonised technical specification
Response delay Opening under snow/wind load in a given time	Not determined	Annex ZA of the standard EN12101-3:2015
Operational reliability Application categories	Thermally Insulated or Thermally Uninsulated Installed inside or outside Smoke Reservoir Horizontal or Vertical, Form A and Form B Driven by frequency converter (up to/including 280 motor frame) Driven by frequency converter with VWF filter (above 280 frame) Direct feed (DOL) with no speed variation Dual purpose use Emergency Only use No ducted cooling air required	
Effectiveness of smoke/heat gas extraction Gas flow and pressure maintenance during smoke and heat extraction test	-10% ≤ flow ≤ +25%	
Resistance to fire	F300+ (120)	
Ability to open under environmental conditions Opening under snow/wind load in a given time	Not determined	
Durability of operational reliability	Class H, 105K	

10. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 9. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.

Signed for and on behalf of the manufacturer by:



Place: Colchester
Date: 09/05/2022

Position of signatory:

Steve Chesney
Managing Director

Appendix

Additional information related to installation method and application, in accordance with Table F.8 EN12101-3:2015

Mechanically driven exhaust appliances for Smoke and Heat Control ventilators (Fan)

Fire resistance: classification

	Class	Temperature (°C)	Time (Min)
X	F200	200	120
X	F300	300	60
X	F400	400	120
X	F600	600	60
	F842	-	30

Fire resistance: Free classification for informative purposes

X	Ff250	250	120
X	Ff300	300	120
X	Ff400	400	60
X	Ff600	600	120
X	Ffθ	θ	A

Motor Range/Manufacturer

WEG/ABB/Brook Crompton

1) Location of extraction device and confirmation of thermal insulation (if required), related to installation ^{a(2)}

X	Outside the building without thermal insulation fitted
X	Outside the building with thermal insulation fitted
X	Inside the building but outside the smoke reservoir, without thermal insulation
X	Inside the building but outside the smoke reservoir, with thermal insulation
X	Inside the smoke reservoir

2) Installation ^a

X	Horizontal motor shaft, floor standing
X	Horizontal motor shaft, wall mounted
X	Horizontal motor shaft, suspended from ceiling
X	Vertical motor shaft, impeller below motor
X	Vertical motor shaft, impeller above motor
X	Vertical motor shaft, suspended from ceiling
X	Motor Upstream (form A)
X	Motor Downstream (form B)

Mechanically driven exhaust appliances for smoke and heat control ventilators (fans)

3) Flexible connectors: Tested with the fan ^{a(2)}	ISL SCF6
X	Flexible connector on Fan inlet side
X	Flexible connector on Fan outlet side
X	Flexible connector on Fan inlet and outlet side
X	Flexible connector on Cooling Air connection
4) Cooling Air	
X	Minimum cooling air volume rate $C_{Air\theta}$ depends on fan nominal size and nominal power rating. Maximum cooling air temperature $\theta = 40^{\circ}\text{C}$

5) Application
X Direct On line electrical connection to mains electrical supply
X With frequency converter under following conditions: Peak to peak; Values are motor dependent Filter; du/dt voltage waveform type
X Dual purpose operation
X Suitable for Emergency Only operation
X Thermally insulated
X Not Thermally insulated
X Horizontal motor shaft, floor standing

Fan Accessories

Additional information related to Fan Accessories, suitable for use with smoke and heat control ventilators (Fans)

Fan Accessory Type
X Matching flange for duct connection, Horizontal
X Matching flange for duct connection, Vertical
X Bellmouth inlet
X Fan guard (Grille)
X Anti-Vibration Mount (spring type)
X Anti-Vibration Mount (spring type) - travel limiter
X Flexible connector
X Mounting Feet, brackets – Horizontal
X Mounting brackets – Vertical
X Deflector
X Diffuser
X Inspection Hatch
X Sound Attenuator
X Air Operated Backdraught damper (Horizontal)
X Air Operated Backdraught damper (Vertical)
X Flow straighteners
X Frequency inverter/converter drive
X Main electrical connection terminal box
X Electrical Isolator switch
X Electrical Isolator switch with functional integrity as per fan classification