# Declaration of Performance

### DoP/BVGAX...-X-F300/003



1	Product Unique identification code of the product type	<b>BVGAXX-F300</b> Machine-based smoke exhaust and heat extraction unit (smoke exhaust fan)	
2	Intended use	Part of a machine-based smoke and heat extraction unit in buildings	
3	Manufacturer	TROX X-FANS GmbH       Phone       +49 (0)6621 9500         Fax       +49 (0)6621 950100         Heinz Trox Straße 1       E-Mail       info-xfans@trox.de         D-36251 Bad Hersfeld       Internet       www.trox-xfans.de         Germany       Kernet       Kernet       Kernet	
5	System of assessment and verification of constancy of performance	System 1	
6	Harmonised standard	EN 12101-3:2015	
	Notified body/ies	The notified product certification body no. 0761 - MPA Braunschweig - carried out a type test (including sampling) to determine the product type, an initial inspection of the manufacturing plant and of the factory production control as well as the continuous surveillance, assessment and evaluation of factory production control, and issued the certificate of constancy of the product:	

0761-CPR-0576

#### 7 a) Declared performance as per EN 12101-3:2015

Key features - BVGAXX-F300	Performance
Response delay/response time	
<ul> <li>Opening under wind load within a specified time</li> </ul>	NPD
<ul> <li>Opening under snow load within a specified time</li> </ul>	NPD
Operational reliability	
Application categories	See Table 7 b)
Motor rating	Н, 100 К
Effectiveness in removing smoke / hot gas	
Maintenance of the gas volume while checking the removal of smoke and hot gas.	+/- 10%
Maintenance of the static pressure while checking the removal of smoke and hot gas.	+/- 20%
Fire resistance	
Classification to EN 13501-4	F300 (60), F200 (120)
Ability to open under ambient conditions	
Opening under wind load within a specified time	NPD
Opening under snow load within a specified time	NPD
Operational reliability resistance	Н, 100 К

The performance of the product identified above is in conformity with the set of declared performances. This declaration of performance is issued, in accordance with regulation (EU) no. 305/2011, under the sole responsibility of the manufacturer identified above.

Signed for and on behalf of TROX X-FANS GmbH:

i.V. Far Dare

Frank Wahl • Head of Research and Development

Bad Hersfeld, 5/17/2021

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#### 7 b) Appendix: Additional information about the installation process and the application as per Table F.8, EN 12101-3:2015

BVGAXX-F300	
Fire resistance	
Free classification for purely informative purposes	Ff300 (120)
Motor manufacturer	WEG
Location of the extraction device and thermal insulation, if available	
Outside of the building without thermal insulation	
Outside of the building with thermal insulation	
Inside the building, outside of the smoke compartment, without thermal insulation	
Inside the building, outside of the smoke compartment, with thermal insulation	
In the smoke compartment	x
Installation	~
Fan upright, motor shaft horizontal	x
Fan parallel to the wall, motor shaft horizontal	x
Fan perpendicular to the wall, motor shaft horizontal	~
Fan hanging, motor shaft horizontal	x
Fan upright, motor shaft vertical	^
Fan parallel to the wall, motor shaft vertical	
Fan perpendicular to the wall, motor shaft vertical	X
Fan hanging, motor shaft vertical	
Motor shaft vertical, impeller under motor	v
Motor shaft vertical, impeller under motor Motor shaft vertical, impeller above motor	X
Motor upstream	X
Motor downstream	X
Flexible connecting pieces, tested on the extraction unit	X
Flexible inlet duct on the intake side	
Flexible inlet duct on the outlet side	
Flexible inlet duct on the intake and outlet side	
Flexible inlet duct for the cooling air connection	
Cooling air	
The minimum cooling air volume flow rate CAir, e depends on the fan's nominal size and nominal power (see	
operating manual) Maximum cooling air temperature $\theta = 40 ^{\circ}\text{C}$	
Application Direct online	
	x
With frequency inverter type	
Peak / peak value U in [V]]     Value as increases an end of U(uk in [V(uk)])	
<ul> <li>Voltage increase speed dU/dt in [V/μs]</li> <li>With dual function</li> </ul>	
	X
As emergency extraction unit only	x
Thermally insulated	
Not thermally insulated	
Original TROX X-FANS accessories	
Adapter plate for flange connection, horizontal	
Adapter plate for flange connection, vertical	
Roof base, with/without bypass gate, manually/motor drive	
Wall box, insulated with motor drive shutter	
Wall box, insulated with automatic shutter	
Roof base, soundproofed	
Inlet	
Spring travel limiter	
Flexible connecting piece, F300/F400	
Flexible connecting piece, F600	
Mounting bracket	
Mounting feet	
Brackets	
Anti-vibration element	
Deflector	
Diffuser	

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BVGAXX-F300	
Circular silencer TSR, with/without core	
Splitter silencer TMKA	
Cover grille	x
Baffle plate	x
Shut-off damper, circular, automatic	
Shut-off damper, circular, automatic, insulated	
Shut-off damper, rectangular, automatic	
Shut-off damper, rectangular, automatic, insulated	
Volume flow rate measuring system (VME)	
Flow redresser	
Thermally insulated casing DAX with motor-powered shut-off dampers	
Frequency inverter	
Sinusoidal filter	
Terminal box, with circuit integrity maintenance (ceramic junction plate)	x
Terminal box, without circuit integrity maintenance (insulated mounting)	
Terminal box, calcium silicate (cooling air passed)	
Inspection switch, without circuit integrity maintenance (insulated mounting)	
Inspection switch, with circuit integrity maintenance, F300	x
Inspection switch, with circuit integrity maintenance, F400	x
TROX-FANS fan diagnosis system VD	x
TROX-FANS bypass case, F300	
Tunnel damper	
Ventilation grille TR-AG	
Weather louvre WG	
Weather louvre WGK	
Weather hood	
First attachment of CE marking	17
Notified body	0761 - MPA Braunschweig