### Declaration of Performance DoP/BVGAXO-F300/004



1	Product Unique identification code of the product type	BVGAXO-F300 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 Heinz Trox Straße 1 D-36251 Bad Hersfeld Germany	Phone Fax E-Mail Internet	+49 (0)6621 9500 +49 (0)6621 950100 info-xfans@trox.de www.trox-xfans.de
5	System of assessment and verification of constancy of performance	System 1		
6	Harmonised standard	EN 12101-3:2015 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:		
	Notified body/ies			

0761-CPR-0067

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

Key features - BVGAXO-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	H, 100 K
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	H, 100 K

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

# Declaration of Performance DoP/BVGAXO-F300/004



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

Prior resistance         Prior resistance           • Free classification for purely informative purpoes         Prior	BVGAXO-F300	
Free classification for unrely informative purposes         F1920 (120)           Motor manufacturer         EMOD           Location of the extraction device and thermal insulation.         EMOD           Outside of the building, with thermal insulation         Intervent the building, outside of the sonke compartment, with thermal insulation           Inside the building, outside of the sonke compartment, with thermal insulation         Intervent the building, outside of the sonke compartment, with thermal insulation           Inside the building, outside of the sonke compartment, with thermal insulation         Intervent the building, outside of the sonke compartment, with thermal insulation           Frain pright, motor shaft horizontal         Intervent the building, outside of the sonke compartment, without thermal insulation           Frain pright, motor shaft horizontal         Intervent the building with thermal insulation           Frain pright, motor shaft horizontal         Intervent the building with thermal insulation           Frain pright, motor shaft horizontal         Intervent the building with thermal insulation           Frain pright, motor shaft horizontal         Intervent the building with thermal insulation           Frain pright, motor shaft horizontal         Intervent the building with thermal insulation           Frain pright, motor shaft horizontal         Intervent thermal insulation           Frain pright, motor shaft horizontal         Intervent thermal insulation           Fra		
Notor manufacturer         EMOD           Location of the striction device and thermal insulation            Cutside of the building without thermal insulation            Inside the building, outside of the smoke compartment, without thermal insulation            Inside the building, outside of the smoke compartment, with thermal insulation            Inside the building, outside of the smoke compartment, with thermal insulation            Inside the building, outside of the smoke compartment, with thermal insulation            Inside the building, outside of the smoke compartment, with thermal insulation            Fan upright, motor shaft horizontal            Fan upright, motor shaft vertical            Fan harping, motor shaft vertical            Fan prepridicutor to the wall, motor shaft vertical            Fan harping, motor shaft vertical            Fan harping, motor shaft vertical            Motor outshaft vertical, impeller under motor            Motor downsfream         X           Flexible init duct on the initike and outlist ide            Flexible init duct on the outlet ide            Flexible init duct on the outlet ide            Flexible init duct on the outlet ide <td></td> <td>Ef300 (120)</td>		Ef300 (120)
Location of the extraction device and thermal insulation            Outside of the building with formal insulation            Inside the building, outside of the smoke compartment, without thermal insulation            Inside the building, outside of the smoke compartment, without thermal insulation            Inside the building, outside of the smoke compartment, without thermal insulation            Inside the building, outside of the smoke compartment, without thermal insulation            Installation, outside of the smale, most shalt horizontal            Fan apergreficular to the wall, motor shalt horizontal         X           Fan apergreficular to the wall, motor shalt vertical            Fan apergreficular to the wall, motor shalt vertical            Fan apergreficular to the wall, motor shalt vertical            Fan apergreficular, impeller above motor            Motor shalt vertical, impeller above motor         X           Motor dwittersam         X           Flexible init duct on the intake and outlet side            Flexible init duct on the intake and outlet side            Flexible init duct on the intake and outlet side            Flexible init duct on the intake and outlet side            Flexible init duct on the intake and outlet sid		( )
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Fan hanging, motor shaft horizontal       ×         Fan parallel to the wall, motor shaft vertical       -         Fan parallel to the wall, motor shaft vertical       -         Fan parallel to the wall, motor shaft vertical       -         Fan hanging, motor shaft vertical       -         Motor shaft vertical, impelier under motor       -         Motor shaft vertical, impelier under motor       -         Motor shaft vertical, impelier under motor       ×         Motor shaft vertical, impelier under motor       -         Motor downstream       ×         Flexible connecting pieces, tested on the extraction unit       -         Flexible init duct on the intake side       -         Flexible init duct on the intake and outlet side       -         Flexible init duct for the cooling air connection       -         Cooling air       -         The minimum cooling air volume flow rate Caked depends on the fairs nominal size and nominal power (see operating manual) Maximum cooling air temperature $\theta = 40^{\circ}$ C         Application       -         Vistage increase speed dU/dt in [V/µs]       -        Voltage increase speed dU/dt		
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Direct onlinexWith frequency inverter type-• Peak / peak value U in [V]]-• Voltage increase speed dU/dt in [V/µs]-With dual functionxAs emergency extraction unit onlyxThermally insulated-Not thermally insulatedxOriginal 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 automatic shutter-Roof base, soundproofed-Inlet-Spring travel limiter-Flexible connecting piece, F300/F400-Flexible connecting piece, F600-Mounting bracket-Mounting bracket-Mounting feet-Brackets-Anti-vibration element-Deflector-		
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Brackets     Image: Constraint of the second s	-	
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Deflector	Brackets	
	Anti-vibration element	
Diffuser	Deflector	
	Diffuser	
Inspection hatch	Inspection hatch	

## Declaration of Performance DoP/BVGAXO-F300/004



BVGAXO-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	12
Notified body	0761 - MPA Braunschweig