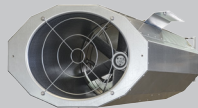


Declaration of Performance

DoP/BVGAXO-X-FU-F300



TROX[®] TECHNIK 
The art of handling air 

1 Product

Unique identification code of the product type

BVGAXO-X-FU-F300

Machine-based smoke exhaust and heat extraction unit (smoke exhaust fan)

2 Intended use

Part of a machine-based smoke exhaust and heat extraction system in building structures.

3 Manufacturer

TROX TLT GmbH

Phone +49 (0)6621 9500

Fax +49 (0)6621 950100

Heinz Trox Straße 1
36251 Bad Hersfeld
Germany

E-mail info@trox-tlt.de

Internet www.trox-tlt.de

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 - the Braunschweig Civil Engineering Materials Testing Institute - carried out a type test (including sampling), an initial inspection of the plant and the plant's own production inspection facilities and ongoing monitoring, assessment and evaluation of the plant's own production inspection facilities to determine the product type and created the product's constancy of performance certificate:

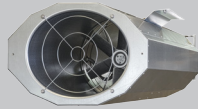
0761-CPR-0576

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

Essential characteristics - BVGAXO-X-FU-F300	Performance
Response delay	
• Opening under wind load within a specified time	NPD
• Opening under snow load within a specified time	NPD
Operational reliability	
• Application categories	See Table 7b)
• 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	F ₃₀₀ (60) F ₂₀₀ (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

Declaration of Performance

DoP/BVGAXO-X-FU-F300



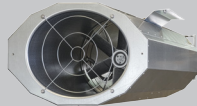
7 b) Appendix

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

BVGAXO-X-FU-F300	
Fire resistance	F _{f300} (120)
• Free classification for purely informative purposes	
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	
Horizontal motor shaft, standing on the floor	X
Horizontal motor shaft, assembled parallel to the wall	X
Horizontal motor shaft, assembled vertically on the wall	
Horizontal motor shaft, hanging from the ceiling	X
Vertical motor shaft, standing on the floor	
Vertical motor shaft, assembled parallel to the wall	X
Vertical motor shaft, assembled vertically on the wall	
Vertical motor shaft, hanging from the ceiling	
Vertical motor shaft, impeller under the motor	X
Vertical motor shaft, impeller above the motor	X
Motor upstream	X
Motor downstream	X
Flexible connecting pieces, tested on the extraction unit, connecting piece made by Bohl	
Flexible inlet duct on the inlet side	
Flexible inlet duct on the outlet side	
Flexible inlet duct on the inlet and outlet side	
Flexible inlet duct for the cooling air connection	
Cooling air	
The minimum cooling air volume flow rate $C_{Air,\theta}$ depends on the fan's nominal size and nominal power (see operating manual). Maximum cooling air temperature $\theta = 40^{\circ}\text{C}$	
Application	
Direct switch-on only	X
With frequency inverter ABB ACH 550 / 580	X
• Peak / peak value U in [V]	500
• Voltage increase speed du/dt in [V/ μs]	550
With dual function	X
As emergency extraction unit only	X
Thermally insulated	X
Not thermally insulated	
TROX-TLT Original Accessories	
Adapter plate for flange connection, horizontal	
Adapter plate for flange connection, vertical	
Roof base	

Declaration of Performance

DoP/BVGAXO-X-FU-F300



TROX[®] TECHNIK 
The art of handling air **X Fans**

BVGAXO-X-FU-F300	
Roof base soundproofed	
Inlet	
Spring travel limiter	
Flexible connecting piece	
Mounting bracket	
Mounting feet, brackets	
Anti-vibration element	
Deflector	
Diffuser	
Inspection hatch	
Sound attenuator	X
Cover grille	X
Shut-off damper air-actuated	
Volume flow rate measuring system (VME)	X
Flow redresser	
Thermally insulated casing DAX with motor-powered shut-off dampers	
Frequency inverter	X
Terminal box	X
Isolator	
Isolator with functional integrity as per fan classification	X
TROX TLT fan diagnosis system VD	X
First attachment of CE marking	17
Notified body	- the Braunschweig Civil Engineering Materials Testing Institute -
CE sticker part no.	1908401

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 GmbH:

Bad Hersfeld, 1 March 2017

i.V. Frank Wahl

Frank Wahl • Head of Research and Development
Page 3/3