## **Declaration of Performance**

#### DoP/BVAX...-.../27-F400/002



1	Product	BVAX/27-F400		
	Unique identification code of the product type	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 Fax	+49 (0)6621 9500 +49 (0)6621 950100
		Heinz Trox Straße 1 D-36251 Bad Hersfeld Germany	E-Mail Internet	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		
	Notified body/ies	The notified product certification body no. 18 - 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-0491		

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

Key features - BVAX/27-F400	Performance
Response delay/response time	
Opening under wind load within a specified time	NPD
Opening under snow load within a specified time	NPD, SL1000 (DAX)
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	F400 (120), 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, SL1000 (DAX)
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. Fait Ware

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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

BVAX/27-F400	
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	x
Outside of the building with thermal insulation	х
Inside the building, outside of the smoke compartment, without thermal insulation	
Inside the building, outside of the smoke compartment, with thermal insulation	x
In the smoke compartment	х
Installation	
Horizontal motor shaft, standing on the floor	x
Horizontal motor shaft, assembled parallel to the wall	
Horizontal motor shaft, assembled vertically on the wall	x
Horizontal motor shaft, hanging from the ceiling	
Vertical motor shaft, standing on the floor	х
Vertical motor shaft, assembled parallel to the wall	
Vertical motor shaft, assembled vertically on the wall	
Vertical motor shaft, hanging from the ceiling	Х
Vertical motor shaft, impeller under the motor	Х
Vertical motor shaft, impeller above the motor	х
Motor upstream	х
Motor downstream	x
Flexible connecting pieces, tested on the extraction unit	
Flexible inlet duct on the intake side	x
Flexible inlet duct on the outlet side	X
Flexible inlet duct on the intake and outlet side	X
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 θ = 40 °C	
Application	
Direct online	X
With frequency inverter type	
Peak / peak value U in [V]]	
<ul> <li>Voltage increase speed dU/dt in [V/μs]</li> </ul>	
With dual function	×
As emergency extraction unit only	x
Thermally insulated	×
Not thermally insulated	X
Original TROX X-FANS accessories	
Adapter plate for flange connection, horizontal	X
Adapter plate for flange connection, vertical	X
Roof base, with/without bypass gate, manually/motor drive	
Wall box, insulated with motor drive shutter	X
Wall box, insulated with automatic shutter	X
Roof base, soundproofed	^
Inlet	X
Spring travel limiter	X
Flexible connecting piece, F300/F400	X
Flexible connecting piece, F600	X
Mounting bracket	^
Mounting bracket  Mounting feet	   v
Brackets	X
	X
Anti-vibration element	X
Deflector	
Diffuser	X
Inspection hatch	X

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## DoP/BVAX...-../27-F400/002



BVAX/27-F400	
Circular silencer, with/without core	x
Splitter silencer	х
Cover grille	х
Shut-off damper, air-actuated	
Shutter, circular, automatic	х
Shutter, circular, automatic, insulated	х
Shutter, oblong, automatic	х
Volume flow rate measuring system (VME)	х
Flow redresser	
Thermally insulated casing DAX with motor-powered shut-off dampers	х
Frequency inverter	х
Sinusoidal filter	
Terminal box, with circuit integrity maintenance (ceramic junction plate)	
Terminal box, without circuit integrity maintenance (insulated mounting)	х
Terminal box, calcium silicate (cooling air passed)	х
Inspection switch, without circuit integrity maintenance (insulated mounting)	
Inspection switch, with circuit integrity maintenance, F300	х
Inspection switch, with circuit integrity maintenance, F400	
TROX-FANS fan diagnosis system VD	х
TROX-FANS bypass case, F300	х
Tunnel damper	
Ventilation grille TR-AG	х
Weather louvre WG	х
Weather louvre WGK	х
Weather hood	Х
First attachment of CE marking	42405
Notified body	18

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