Declaration of performance





DoP/BVAXN-12/56-FU-F400/001

1	Product	BVAXN-12/56 FU-F400	
	Unique identification code of the product type	Machine-based smoke exhau (smoke exhaust fan)	st and heat extraction unit
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 36251 Bad Hersfeld Germany	Phone +49 (0)6621 9500 Fax +49 (0)6621 950100 E-mail info-xfans@trox.de Internet www.trox-xfans.de
5	System of assessment and verification of constancy of performance	System 1	
5	·	System 1 EN 12101-3:2015	
	performance	EN 12101-3:2015 The notified product certificat Braunschweig - carried out a determine the product type, a	type test (including sampling) to n initial inspection of the e factory production control as lance, assessment and on control, and issued the

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

Key features - BVAXN-12/56 FU-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 (with deflector)
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 ₄₀₀ (120) 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, SL1000 (with deflector)
Operational reliability resistance	H, 100 K

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

BVAXN-12/56 FU-F400	
Fire resistance	Ff ₃₀₀ (120)
Free classification for purely informative purposes	1 1300 (123)
Motor manufacturer	WEG
Location of the extraction device and thermal insulation, if available	
Outside of the building without thermal insulation	Х
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	Х
In the smoke compartment	Х
Installation	
Horizontal motor shaft, standing on the floor	Х
Horizontal motor shaft, assembled parallel to the wall	
Horizontal motor shaft, assembled vertically on the wall	Х
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	X
Vertical motor shaft, impeller above the motor	Х
Motor upstream	Х
Motor downstream	Х
Flexible connecting pieces, tested on the extraction unit	
Flexible inlet duct on the intake side	Х
Flexible inlet duct on the outlet side	Х
Flexible inlet duct on the intake and outlet side	Х
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 $\theta = 40$ °C	
Application	
Direct switch-on only	Х
With frequency inverter type	ABB ACH 550 / 580
Peak / peak value U in [V]]	673
Voltage increase speed dU/dt in [V/µs]	507
With dual function	X
As emergency extraction unit only	X
Thermally insulated	X
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	
Roof base, soundproofed	

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BVAXN-12/56 FU-F400	
Inlet	X
Spring travel limiter	X
Flexible connecting piece	X
Mounting bracket	
Mounting feet, brackets	X
Anti-vibration element	X
Deflector	
Diffuser	X
Inspection hatch	X
Sound attenuators	X
Cover grille	X
Shut-off damper, air-actuated	X
Volume flow rate measuring system (VME)	Х
Flow redresser	X
Thermally insulated casing DAX with motor-powered shut-off dampers	X
Frequency inverter	X
Terminal box	X
Isolator	X
Isolator with functional integrity as per fan classification	X
TROX X-Fans fan diagnosis system VD	Х
First attachment of CE marking	17
Notified body	- the Braunschweig Civil Engineering Materials Testing Institute -
Part Number CE-sticker	1908395

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, 05.03.2018