Declaration of performance DoP/BVREH-1250-R-F300/002



	Product Unique identification code of the product type	BVREH-1250-R-F300 Machine-based smoke exhaus (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
	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-0438

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

Key features - BVREH-1250-R-F300	Performance
Response delay/response time	
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	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	F ₃₀₀ (60)
Classification to EN 13501-4	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	Н, 100 К

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

PUPEH 1950 D 5200	
BVREH-1250-R-F300 Fire resistance	
Free classification for purely informative purposes	Ff ₃₀₀ (120)
Motor manufacturer	VEM
Location of the extraction device and thermal insulation, if available	
Outside of the building without thermal insulation	
Outside of the building without institution	
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	
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	
Horizontal motor shaft, hanging from the ceiling	
Vertical motor shaft, standing on the floor	
Vertical motor shaft, assembled parallel to the wall	
Vertical motor shaft, assembled vertically on the wall	
Vertical motor shaft, hanging from the ceiling	
Vertical motor shaft, impeller under the motor	
Vertical motor shaft, impeller above the motor	
Motor upstream	
Motor downstream	
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 $C_{Air,\theta}$ 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	Siemens Sinamics G120 PM240
Peak / peak value U in [V]]	500
Voltage increase speed dU/dt in [V/µs]	550
With dual function	х
As emergency extraction unit only	х
Thermally insulated	х
Not thermally insulated	
Original TROX X-Fans accessories	
Adapter plate for flange connection, horizontal	
Adapter plate for flange connection, vertical	
Roof base	
Roof base, soundproofed	
Inlet	

Declaration of performance

DoP/BVREH-1250-R-F300/002

BVREH-1250-R-F300	
Spring travel limiter	
Flexible connecting piece	х
Mounting bracket	
Mounting feet, brackets	
Anti-vibration element	х
Deflector	
Diffuser	
Inspection hatch	Х
Sound attenuators	
Cover grille	Х
Shut-off damper, air-actuated	Х
Volume flow rate measuring system (VME)	Х
Flow redresser	Х
Thermally insulated casing DAX with motor-powered shut-off dampers	
Frequency inverter	х
Terminal box	
Isolator	х
Isolator with functional integrity as per fan classification	
TROX X-Fans fan diagnosis system VD	х
First attachment of CE marking	16
Notified body	- the Braunschweig Civil Engineering Materials Testing Institute -
Part Number CE-sticker	1907637

Fans

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

i.V. Frank

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

03/2018 - DE/en