### Declaration of Performance DoP/BVW-D-F600/005



1	Product Unique identification code of the product type	BVW-D-F600  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 trox-xfans@troxgroup.com 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	carried out a type test (inclu type, an initial inspection of production control as well a			

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

Key features - BVW-D-F600	Performance
Response delay/response time	
Opening under wind load within a specified time	NPD
Opening under snow load within a specified time	SL 1000
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	F600 (60), 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	SL 1000
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:

V. marthall

Bad Hersfeld, 7/17/2023 Frank Wahl • Head of Research and Development

07/2023 – GB/en page 1/3

# Declaration of Performance DoP/BVW-D-F600/005



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

BVW-D-F600	
Fire resistance	
Free classification for purely informative purposes	Ff600 (120), Ff300 (120)
Motor manufacturer	EMOD
Location of the extraction device and thermal insulation, if available	LINOD
Outside of the building without thermal insulation	X
Outside of the building with thermal insulation	X
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	
Installation	
Fan upright, motor shaft horizontal	
Fan parallel to the wall, motor shaft horizontal	
Fan perpendicular to the wall, motor shaft horizontal	
Fan hanging, motor shaft horizontal	
Fan upright, motor shaft vertical	Х
Fan parallel to the wall, motor shaft vertical	
Fan perpendicular to the wall, motor shaft vertical	
Fan hanging, motor shaft vertical	
Motor shaft vertical, impeller under motor	Х
Motor shaft vertical, impeller above motor	
Motor upstream	
Motor downstream	
Flexible connecting pieces, tested on the extraction unit	
Flexible inlet duct on the intake side	Х
Flexible inlet duct on the outlet side	
Flexible inlet duct on the intake and outlet side	
Flexible inlet duct for the cooling air connection	
Cooling air	
The minimum cooling air volume flow rate Cair,0 depends on the fan's nominal size and nominal power (see	l x
operating manual) Maximum cooling air temperature θ = 40 °C	^
Application	
Direct online	X
With frequency inverter type	
Peak / peak value U in [V]]	
• Voltage increase speed dU/dt in [V/μs]	
With dual function	X
As emergency extraction unit only	X
Thermally insulated	X
Not thermally insulated  Original TROV V FANS acceptage	X
Original TROX X-FANS accessories  Adapter plate for flange connection, horizontal	
Adapter plate for flange connection, nonzontal  Adapter plate for flange connection, vertical	
Roof base, with/without bypass gate, manually/motor drive	X
Wall box, insulated with motor drive shutter	^
Wall box, insulated with motor drive shutter	
Roof base, soundproofed	X
Inlet	X
Spring travel limiter	
Flexible connecting piece, F300/F400	
Flexible connecting piece, F600	X
Mounting bracket	
Mounting feet	
Brackets	
Anti-vibration element	
Deflector	
Diffuser	
Inspection hatch	
Circular silencer TSR, with/without core	X
Splitter silencer TMKA	X
Cover grille	X
Baffle plate	
Shut-off damper, circular, automatic	X
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07/2023 – GB/en page 2/3

# Declaration of Performance DoP/BVW-D-F600/005



BVW-D-F600	
Shut-off damper, circular, automatic, insulated	х
Shut-off damper, rectangular, automatic	х
Shut-off damper, rectangular, automatic, insulated	
Volume flow rate measuring system (VME)	X
Flow redresser	X
Thermally insulated casing DAX with motor-powered shut-off dampers	
Frequency inverter	
Sinusoidal filter	
Terminal box, with circuit integrity maintenance (ceramic junction plate)	
Terminal box, without circuit integrity maintenance (insulated mounting)	X
Terminal box, calcium silicate (cooling air passed)	
Inspection switch, without circuit integrity maintenance (insulated mounting)	X
Inspection switch, with circuit integrity maintenance, F300	
Inspection switch, with circuit integrity maintenance, F400	
TROX-FANS fan diagnosis system VD	X
TROX-FANS bypass case, F300	
Tunnel damper	
Ventilation grille TR-AG	X
Weather louvre WG	
Weather louvre WGK	
Weather hood	
	-
First attachment of CE marking	13
Notified body	0761 - MPA Braunschweig

07/2023 – GB/en page 3/3