

Declaration of Performance

DoP/BV...AXN-.../56-F200/005

| | |
|--|--|
| 1 Product Unique identification code of the product type | BV...AXN-.../56-F200 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 +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 |
| 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-0009 |

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

| Key features - BV...AXN-.../56-F200 | 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 | 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:



Bad Hersfeld, 5/17/2021

Frank Wahl • Head of Research and Development

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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

| BV...AXN-.../56-F200 | |
|--|------|
| Fire resistance | |
| • Free classification for purely informative purposes | - |
| Motor manufacturer | EMOD |
| 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 | x |
| 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 | x |
| Installation | |
| Fan upright, motor shaft horizontal | x |
| Fan parallel to the wall, motor shaft horizontal | |
| Fan perpendicular to the wall, motor shaft horizontal | x |
| Fan hanging, motor shaft horizontal | |
| Fan upright, motor shaft vertical | x |
| Fan parallel to the wall, motor shaft vertical | |
| Fan perpendicular to the wall, motor shaft vertical | |
| Fan hanging, motor shaft vertical | x |
| Motor shaft vertical, impeller under motor | x |
| Motor shaft vertical, impeller above motor | x |
| Motor upstream | x |
| 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 $C_{Air,\theta}$ depends on the fan's nominal size and nominal power (see operating manual) Maximum cooling air temperature $\theta = 40\text{ °C}$ | |
| Application | |
| Direct online | x |
| With frequency inverter type | |
| • Peak / peak value U in [V] | |
| • Voltage increase speed dU/dt in [V/ μ s] | |
| 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, 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 feet | x |
| Brackets | x |
| Anti-vibration element | x |
| Deflector | |
| Diffuser | x |
| Inspection hatch | x |

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| BV...AXN-.../56-F200 | |
|---|-------------------------|
| Circular silencer TSR, with/without core | x |
| Splitter silencer TMKA | x |
| Cover grille | x |
| Baffle plate | |
| Shut-off damper, circular, automatic | x |
| Shut-off damper, circular, automatic, insulated | x |
| Shut-off damper, rectangular, automatic | x |
| Shut-off damper, rectangular, automatic, insulated | x |
| Volume flow rate measuring system (VME) | x |
| Flow redresser | x |
| Thermally insulated casing DAX with motor-powered shut-off dampers | x |
| Frequency inverter | |
| Sinusoidal filter | |
| Terminal box, with circuit integrity maintenance (ceramic junction plate) | x |
| 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 | x |
| Inspection switch, with circuit integrity maintenance, F400 | x |
| TROX-FANS fan diagnosis system VD | x |
| TROX-FANS bypass case, F300 | x |
| Tunnel damper | x |
| Ventilation grille TR-AG | x |
| Weather louvre WG | x |
| Weather louvre WGK | x |
| Weather hood | |
| | |
| First attachment of CE marking | 12 |
| Notified body | 0761 - MPA Braunschweig |