



BVAXN 12/56

BVAXN 6_9_12/56

FOR CONVEYING SMOKE GASES OF TEMPERATURE CLASSES F200, F300 AND F400

- For installation in the fire zone without additional cooling.
- Low-noise operation due to low circumferential speeds caused by high pressure coefficients.
- Optimised outlet guide vanes to increase the pressure coefficients.
- Extensive adjustments to the relevant operating point and subsequent motor rating corrections can be made by steplessly adjusting the impeller blades without any need to disassemble the impeller (the impeller blades cannot be adjusted in the case of the F400 temperature class).
- The desired operating point is optimised to achieve the best possible efficiency using a variable number of blades (6 / 9 / 12).
- Aluminium impeller; impeller's nominal diameter 315 to 1,600 mm Volume flow rate max. 230,000 m³/h Total pressure max. 2,500 Pa 15 sizes
- Casing available in all RAL colours

Application

Application

- For installation inside and outside of the fire zone.
- Suitable for free inlet / outlet or for pipeline installation in a horizontal and vertical style.
- Dual smoke extract and ventilation function.

Description

Variants

- Temperature class F200 (nominal size: 355 to 1250)
- Temperature class F300 (nominal size: 315 to 1600)
- Temperature class F400 (nominal size: 315 to 1400)
- Design as wall-mounted smoke exhaust fan with wall mounting plate and outlet casing with self-powered multileaf damper

Accessories

- Roof cowl DAX (BVAX to NG 1120)
- Fan diagnosis system VD
- Volume flow rate measuring unit VME
- Shock pulse bearing monitoring STI
- Acoustic and thermal insulation
- Weather protection roof for acoustic and thermal insulation
- Round silencers TSR (inlet and outlet side)
- Round silencers TSR with interior core (inlet and outlet side)
- Extension duct
- Inspection hatch
- Self-powered shut-off damper
- Flexible connectors
- Matching flange
- Equipotential bonding
- Bellmouth
- Cover grille (inlet and outlet side)
- Diffuser
- Diffuser with interior core
- Outlet duct with cover grille
- Wall mounting plate
- Louvre box
- Mounting feet
- Brackets (for vertical assembly)
- Spring anti-vibration mounts

- Local isolator loose (for assembly outside of the fire area)
- Angular wall ring with brackets (inlet and outlet side)
- Silicone-free type
- Extract air and smoke extract controller
- Surface protection powder-coated and/or
- hot-dip galvanised in corrosion protection category C2 to C5M

Classification, standards and guidelines

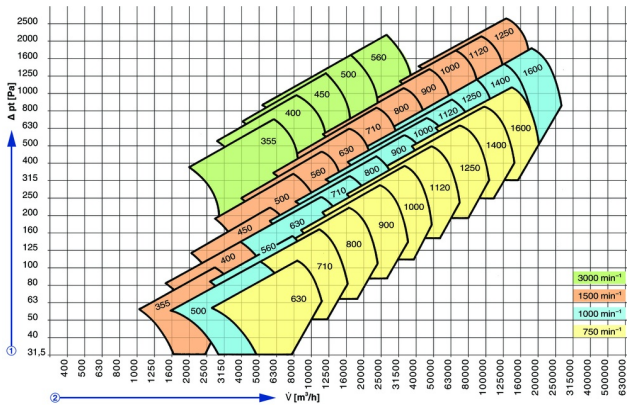
- For conveying smoke gases of temperature classes F200, F300 and F400
- Temperature / time classification as per EN 12101 – Part 3: F200 CE no.: 0761-CPD-0009, incl. declaration of performance (DoP) General building inspectorate licence no. Z-78.11-128
- F300 CE no.: 0761-CPD-0010, or 0761-CPR-0492 for operation on a frequency inverter in the case of smoke extraction, incl. declaration of performance (DoP) General building inspectorate licence no. Z-78.11-128
- F400 CE no.: 0761-CPD-0011, or 0761-CPR-0493 for operation on a frequency inverter in the case of smoke extraction, incl. declaration of performance (DoP) General building inspectorate licence no. Z-78.11-128

TECHNICAL INFORMATION

Quick sizing



BVAXN 12/56 Leistungsbereich



$t = 20 \text{ }^\circ\text{C}$

$\rho = 1,2 \text{ kg/m}^3$

① Totaldruckerhöhung

② Volumenstrom

Dimensions and weight



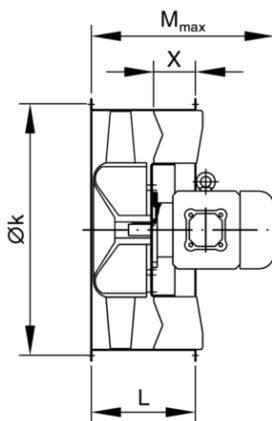
Dimensions [mm] ① \varnothing clear width $\varnothing k$ $\varnothing D$ $Z \times d$ $L X M$ max Weight without motor (approx. kg)

①	∅ clear width	∅k	∅D	Zxd	L	X	M _{max}	Weight without motor (approx. kg)
315	320	356	386	8 x 9.5	150	71	320	6.5
355	359	395	425	8 x 9.5	165	77	370	8
400	401	438	468	12 x 9.5	188	88	430	12
450	450	487	517	12 x 9.5	200	88	440	14
500	504	541	571	12 x 9.5	225	100	540	18
560	565	605	643	16 x 11.5	242	100	560	26
630	634	674	712	16 x 11.5	286	128	570	33
710	711	751	789	16 x 11.5	305	128	700	45
800	797	837	875	24 x 11.5	350	150	780	56
900	894	934	972	24 x 11.5	373	149	930	74
1000	1003	1043	1081	24 x 11.5	415	165	960	93
1120	1124	1174	1214	24 x 11.5	450	170	1200	120
1250	1261	1311	1351	24 x 11.5	500	185	1230	145
1400	1415	1465	1545	24 x 11.5	560	204	1020	460
1600	1587	1637	1717	32 x 11.5	630	230	1070	570

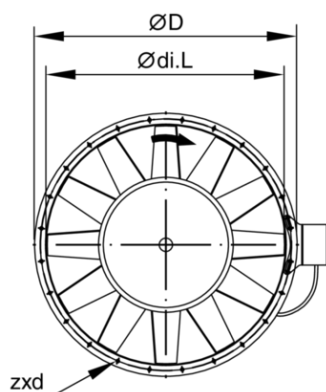
① Nominal size, up to size 1250, an extension duct may sometimes be needed in the case of vibration-dampened installation •

③ Weight without motor (approx.) [kg] •

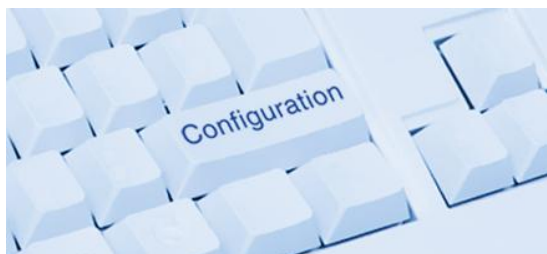
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DETAILED DESIGN



HERE YOU'LL HAVE DIRECT ACCESS TO SELECT THE BVAXN VIA THE TROX X-FANS PRODUCT CONFIGURATOR

Following features are at your disposal::

- Based on your requirements of volume-flow, pressure and installation arrangement including desired accessories select the ideal fan...
- Appropriate selection according to required power, sound, nominal size, price and production period
- Options and accessories get assessed for plausibility
- All required documents (e.g. technical specification, tender specification, certificates, drawings etc.) of specific selected fan to be downloaded or send by E-Mail