



AXN-KSE 12/56

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### AXIAL FANS WITH DIRECT DRIVE FOR BUILDING VENTILATION AND AERATION

- Suitable in horizontal and vertical style.
- Increase in pressure coefficients due to optimised outlet guide vanes.
- The impeller blades can be steplessly adjusted without any need to disassemble the impeller. This adjustment option allows the user to make extensive adjustments to the relevant operating point, as well as subsequent motor rating corrections.
- High pressure coefficients enable low circumferential speeds and therefore low-noise operation
- Compact size enables installation even when space is tight
- M-D style – with direct drive, with motor in outlet. Impeller assembled directly on the motor shaft
- Upon request for higher pressures, or emergency mode / redundancy even possible in two-stage ZAXN-KSE 12/56 series
- Efficiency up to 89%
- Casing available in all RAL colours
- 12 sizes
- Impeller's nominal  $\varnothing$  400 to 1,600 mm
- Volume flow rate V. max. 400,000 m<sup>3</sup>/h
- Total pressure increase pt max. 2,600 Pa

## Application



### Application

- Supply or exhaust air as round duct fan
- Free inlet or connected to the pipeline on the inlet side
- Free outlet or connected to the pipeline on the outlet side
- Advanced stable characteristic curve due to characteristic curve stabiliser unit

## Description



### Variants

- Temperature limits For ISO-F motors: 60°C For ISO-H motors: 80°C.

### Accessories

- Shock pulse bearing monitoring STI

- Thermal motor protection
- 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
- Bellmouth pulled back when space is tight, e.g. in smoke pressure units (SPUs)
- Cover grille (inlet and outlet side)
- Diffuser
- Diffuser with interior core
- Outlet duct with cover grille
- Mounting feet (for horizontal assembly)
- Brackets (for vertical assembly)
- Spring anti-vibration mounts
- Rubber anti-vibration mounts
- Local isolator attached (terminal box not required)
- Angular wall ring with brackets (inlet and outlet side)
- Flow redresser
- Silicone-free type
- Surface protection powder-coated and/or hot-dip galvanised in corrosion protection category C2 to C5M

## TECHNICAL INFORMATION

### Dimensions and weight



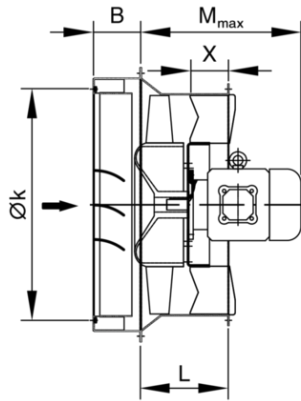
#### Dimensions [mm]

| ①    | Ø clear width | Øk   | ØD   | Zxd       | L    | X   | M <sub>max</sub> | ③    |
|------|---------------|------|------|-----------|------|-----|------------------|------|
| 400  | 401           | 438  | 468  | 12 x 9.5  | 176  | 90  | 88               | 430  |
| 450  | 450           | 487  | 517  | 12 x 9.5  | 190  | 101 | 88               | 440  |
| 500  | 504           | 541  | 571  | 12 x 9.5  | 206  | 110 | 100              | 540  |
| 560  | 565           | 605  | 643  | 16 x 11.5 | 216  | 124 | 100              | 560  |
| 630  | 634           | 674  | 712  | 16 x 11.5 | 258  | 137 | 128              | 570  |
| 710  | 711           | 751  | 789  | 16 x 11.5 | 275  | 153 | 128              | 700  |
| 800  | 797           | 837  | 875  | 24 x 11.5 | 319  | 172 | 150              | 780  |
| 900  | 894           | 934  | 972  | 24 x 11.5 | 333  | 195 | 149              | 930  |
| 1000 | 1003          | 1043 | 1081 | 24 x 11.5 | 372  | 217 | 165              | 960  |
| 1120 | 1124          | 1174 | 1214 | 24 x 11.5 | 403  | 244 | 170              | 1200 |
| 1250 | 1261          | 1311 | 1351 | 24 x 11.5 | 445  | 271 | 185              | 1230 |
| 1400 | 1415          | 1465 | 1545 | 24 x 11.5 | 1190 | 303 | 764              | -    |
| 1600 | 1587          | 1637 | 1717 | 32 x 11.5 | 1333 | 343 | 860              | -    |

① Nominal size; an extension duct may be needed for different sizes in the case of vibration-dampened installation •

③ Weight without motor (approx.) [kg]

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