

Important Instructions

for using fans to boost gas pressure



Please be sure that you have **read the operating instructions** before installation and use of the fan!
Improper use or installation endangers persons and plants and may lead to serious damage.
This leaflet is only a supplement to the operating instructions.

Installation

- Use elastic, gas-tight and electrically conductive junctions for pipes (compensators). No deforming force through the pipe may be exercised on the fan housing.
- Do not install the fan in a tilted position and attach it to a solid base. Installation on an elastic frame may cause unauthorised inadmissible vibration.

Electric Installation

- Installation must be performed by a professional electrician.
- provide a cut-off switch/emergency stop button with the installation
Overload protection and cable dimensions only in accordance with the power of the motor.
- Attach an earthing conductor/earthing connection both to the base and to the motor housing.
- Only use cable glands that fit the cable diameter and the motor Ex-protection level.
- Unused cable glands must always be sealed with ATEX-conform caps.
Transport caps and unused cable glands are not suitable for this purpose.

Inspection before commissioning

All fans have been tested before dispatch. Damage may however occur through rough transportation or unsuitable storage. Therefore please inspect the following points:

- Visual inspection for external transportation damage.
- Ensure there are no foreign objects inside the fan and pipes before connection.
- Check the air gap between impeller and air intake. Minimum distance 2mm
- Turn the impeller by hand and listen for abnormal noises (grating, rattling...).
- After connection: Check tightness with a **max. test pressure of 250 mbar**.
Higher test pressures may lead to the housing or the gasket becoming damaged.
- Check screw connections and safety equipment.
- Check the rotational direction by switching on for a short while. Check current draw.

Maintenance



Regular and careful execution of the proscribed maintenance according to the **operating instructions** is imperative to ensure operational safety.
An insufficiently serviced fan may create hazards from flying sparks or hot surfaces when inflammable gases are being transported.

Major overhaul

- A complete major overhaul must be performed after 20,000 operating hours, latest 36 months after initial commissioning. An overhaul should take place earlier when there are higher environmental temperatures. The date of the last overhaul is noted on the fan.
- Complete major overhaul and repairs of fans for EX-environment may only be executed by the manufacturer or by companies which have been approved for this purpose.