



SMOKE PROTECTION
DAMPER JZ-RS-G WITH
ACTUATOR



JZ-RS WITH ACTUATOR



LONMARK[®]
PARTNER

WITH TROXNETCOM AS
AN OPTION



JZ-RS WITH AS-I MODULE



SMOKE PROTECTION
DAMPER, TYPE JZ-RS,
WITH INSTALLATION
SUBFRAME

JZ-RS

TO PREVENT THE SPREADING OF SMOKE

Smoke protection dampers are used in ventilation plant rooms or in ducts to prevent smoke from spreading

- Casing air leakage to EN 1751, class C
- Low differential pressure and sound power level
- Airflow direction is not critical
- Available in standard sizes and many intermediate sizes

Optional equipment and accessories

- Duct smoke detector RM-O-VS-D or RM-O-3-D
- Installation subframe
- Integration into the central BMS with TROXNETCOM

Application



Application

- Smoke protection dampers of Type JZ-RS are used in ventilation plant rooms or in ducts to prevent smoke from spreading (according to the German guideline regarding fire protection requirements on ventilation systems, LÜAR)
- For the refurbishment of systems with regard to fire safety
- Can be triggered by duct smoke detectors with general building inspectorate licence
- Integration into the central BMS with TROXNETCOM

Special characteristics

- Low differential pressure and sound power level
- Aerofoil blades
- Low-maintenance, robust construction
- No parts with silicone
- Available in standard sizes and many intermediate sizes
- Closed cell side seals meet increased hygiene requirements

Classification

- Building inspectorate licence Z-78.4-51 from the DIBt, Berlin, Germany
- Casing air leakage to EN 1751, class C
- Closed blade air leakage at a differential pressure of 40 Pa = 200 m³/h per m²
- Long-term testing: 10,000 open/close cycles

Nominal sizes

- Standard: B = 400 – 2000 mm (in increments of 200 mm), H = 345 – 1995 mm (in increments of 165 mm)
- R20 sizes: B = 357 – 1998 mm (in R20 increments), H = 357 – 1998 mm (in R20er increments)

Description



Construction

- Galvanised sheet steel, corner holes on both sides, brass bearings
- G: Flange holes on both sides

Parts and characteristics

- Frame
- Blade
- Spring return actuator
- External linkage
- Travel stop (angle section), side B

- Side seal, side H

Attachments

- Installation subframe ER
- Duct smoke detector
- TROXNETCOM

Construction features

- Rectangular casing, welded, material thickness 1.25 mm
- Blades, material thickness 1 mm, opposed action
- Flanges on both sides, suitable for duct connection, either flange holes or corner holes
- Spring return actuator on the 2nd blade (for all sizes)
- Control input signal from the central BMS or TROXNETCOM
- External linkage, robust and durable, consisting of the coupling rod and horizontal arms
- Blade shafts, Ø12 mm, with notch to indicate the blade position
- Construction and materials comply with the EU directive and guidelines for use in potentially explosive atmospheres (ATEX)
- Side seals between the regular blades and the frame
- Travel stop (angle section) ensures tight closure of the top and bottom blades

Materials and surfaces

- Casing, blades and travel stop (angle section) made of formed galvanised sheet steel; flanges on both sides with corner holes
- Blade shafts, drive arm and external linkage made of galvanised steel
- Side seal made of stainless steel
- Brass bearings

Standards and guidelines

- German 'Bau- und Prüfgrundsätze' [Principles of Construction and Testing], 2/84 edition
- Maintenance standards DIN 31051 and EN 13305

Maintenance

- Smoke protection dampers and duct smoke detectors must be maintained regularly and must be operational at all times
- To maintain the normal function of the unit, or to re-instate its normal function, maintenance standards DIN 31051 and EN 13305 must be complied with
- Smoke protection dampers must be maintained at least every 12 months
- A maintenance report must be created; documents must be kept for reference
- Maintenance-free as construction and materials are not subject to wear