

SMOKE CONTROL DAMPER - AAsingle S-RA1



Handbook download



22 CE 1396
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EN 12101-8:2011 Smoke control damper S-RA1
Nominal activation conditions/sensitivity - Pass
Response delay (response time) Opening/closure time proven. Duration: <60 s/90°
Operational reliability: C_{mod} : 20 000 cycles (modulated)
Fire resistance: Resistivity depends on installation method and situation <ul style="list-style-type: none"> - Integrity E - Smoke leakage S - Mechanical stability (under E) - Maintenance of the cross section (under E)
Durability of response delay: AA - Automatic Activation. Opening/closure time proven. Duration: <60 s/90°
Durability of operational reliability C_{mod} : 20 000 cycles. Cycle duration: <120 s

Smoke control dampers are designed for mechanical or natural smoke and heat extract systems. Its function is to extract toxic gases, smoke and fire or provide a supply of fresh air to fire compartments. Smoke control dampers are fitted with an actuator without a spring; therefore, they have two safety positions, "open" and "closed" and require power even in the event of fire.

Type of the smoke damper and production date are mentioned on the label glued on the smoke damper.

EVERY SMOKE CONTROL DAMPER MUST BE INSTALLED IN ACCORDANCE WITH THE HANDBOOK!

The Handbook Is Available on the Webpage

https://design.systemair.com/documents/S_RA1

and Includes:

- Permitted installation methods with detailed descriptions
- Fire resistance classes
- Electrical connections of activating mechanisms
- Operating conditions of the smoke dampers
- Operation manual
- Functionality check
- Inspection instructions

OPERATING JOURNAL

Building Object	
Placement	
Room No.	
Position No.	
Identification	
Type	
Dimensions	
Serial No.	

Recommended Course of Action and Inspection Log as per EN 12 101:

1. Identification of damper
2. Date of inspection
3. Check actuator wiring for damage
4. Check the wiring of the end switches for damage
5. Check the damper cleanliness and clean where necessary
6. Check the inspection lid, cover tightness
7. Check the blade and sealings, and correct and record where necessary (where applicable)
8. Check the damper functionality (open and close) as per the "Functionality Check" chapter and confirm operation by using the control system, tracking the physical behavior of the damper and signalization of the end positions, and correct and record where necessary (where applicable).
9. The damper is part of the SHEVS. Therefore, the complete system must be checked as specified in its operational and maintenance requirements.
10. Set into the operating position – as per the "Operation Manual".
11. Record the result into the "Operating Journal" with the name and signature of the inspection technician.

Activation of the Damper		
Date	Description of defects found and the date of inspection after the defects are eliminated	Inspection technician's signature

Periodic Damper Inspections – at Least Once Every 6 Months		
Date	Description of defects found and the date of inspection after the defects are eliminated	Inspection technician's signature

WARRANTY CONDITIONS

- Systemair provides warranty for all its manufactured smoke dampers; the warranty lasts for 24 months starting on the product delivery date.
- The product undergoes an examination in the factory before dispatch. The manufacturer guarantees that all the product attributes will remain in compliance with the relevant technical specifications throughout the whole warranty period, provided that the customer uses it in accordance with the products Handbook.
- The customer can only request a warranty repair in writing and including the serial number of the damper in question.
- The warranty does not apply to damages caused by unprofessional manipulation, incorrect assembly, incorrect installation, mechanical damage or not respecting instructions stated in the Handbook.
- The warranty period is extended by the amount of time which has elapsed between the filing of the warranty repair claim and execution of the repair.
- In case no defects applicable for warranty are identified, the costs associated with the arrival of the service technician will be handled by the customer who filed the warranty repair claim.
- Before you can install the damper, it's functionality must be tested according to the chapter "Functionality Check".

DO NOT INSTALL NONFUNCTIONAL SMOKE DAMPERS!

- Changes of smoke damper functionality, caused by transport or installation, aren't reclaimable after the installation (deformations, damages, mechanical damage of the sealing material, foreign objects which can constrain the blade, wrong handling of the mechanism etc.)
- After installation of the smoke damper into the ductwork, it's functionality must be checked again (as per chapter "Functionality Check").

TRANSPORT & STORAGE

The dampers are transported in covered means of transport, on pallets or in boxes. When handling during transportation and storage, the dampers must be protected against damage and weather conditions and the damper blades must be in the closed position. These products must be stored in a closed and dry area where the temperature is kept within the range of -30 °C to +50 °C.

SUPPLEMENT

Any deviations from the technical specifications contained herein and the terms should be discussed with the manufacturer. We reserve the right to make any changes to the product without prior notice, provided that these changes do not affect the quality of the product and the required parameters. Current information on all products is available at design.systemair.com