FIRE DAMPER FDR-3G, FDS-3G, FDS-EI90S & FDS-EI120S

This fire damper has guaranteed tightness

User Manual download

CE 1396 - CPR - 0162

CE 1396 - CPR - 0169

CE 1396 - CPR - 0163

19 CE 1396	
Systemair Production a.s. 90043 Kalinkovo 371, Slovakia 1396-CPR-0162 FDR-3G	
EN 15650 : 2010 **Circular fire dampers**	
Nominal activation conditions/sensitivity: - sensing element load bearing capacity - sensing element response temperature	**Pass**
Response delay (response time): - closure time	**Pass**
Operational reliability: - motorized cycle 10.200 cycles - manual cycle 50 cycles - modulated 20.200 cycles	**Pass**
Fire resistance: - maintenance of the cross section (under E) - integrity E resistivity depending on installation method and situation - insulation I - smoke leakage S - mechanical stability (under E) - cross section (under E)	
Durability of response delay: - sensing element response temperature and load bearing capacity	**Pass**
Durability of operational reliability: - open and closing cycle	**Pass**

19 CE 1396	
Systemair Production a.s. 90043 Kalinkovo 371, Slovakia 1396-CPR-0169 FDS-EI90S, FDS-EI120S 1396-CPR-0163 FDS-3G	
EN 15650 : 2010 **Rectangular fire dampers**	
Nominal activation conditions/sensitivity: - sensing element load bearing capacity - sensing element response temperature	**Pass**
Response delay (response time): - closure time	**Pass**
Operational reliability: - motorized cycle 10.200 cycles - manual cycle 50 cycles - modulated 20.200 cycles	**Pass**
Fire resistance: - maintenance of the cross section (under E) - integrity E **FDS-** **EI90**(ve ho i↔o)**S** **EI120**(ve ho i↔o)**S** **3G** depending on installation method and situation - insulation I - smoke leakage S - mechanical stability (under E) - cross section (under E)	
Durability of response delay: - sensing element response temperature and load bearing capacity	**Pass**
Durability of operational reliability: - open and closing cycle	**Pass**

FDR & FDS

A fire damper is used in ventilation ducts and serves to separate fire compartments in case of fire for avoiding the spread of fire between adjacent fire compartments. The type of fire damper, class of the fire resistance and production date are given on the label affixed to the fire damper.

EVERY FIRE DAMPER MUST BE INSTALLED IN ACCORDANCE WITH THE USER MANUAL!

The User Manual Is Available on the Webpage design.systemair.com and Includes:

- Permitted installation methods with detailed descriptions
- Fire resistance classes depending upon the installation method
- Types and parameters of activating mechanisms
- Electrical connections of activating mechanisms
- Operating Conditions
- Operation Manual
- Fire Damper Functionality Check

OPERATING JOURNAL

Placement, Building Object	
Room No.	
Position No.	
Damper Type	
Activation Type	
Nominal Size	
Serial No.	

Recommended Course of Action and Inspection Log as per EN 15 650:

1. Damper identification
2. Date of inspection
3. Checking of the electric connection of the activation mechanism (where applicable)
4. Checking of the damper for cleanliness and possible need for cleaning (where needed)
5. Checking of the blade and sealing condition, possible correction and logging (where needed)
6. Checking of the proper fire damper closure – details can be found in the User Manual
7. Checking of the damper functionality – opening and closing using the control system, physical examination of the damper's behavior, possible correction and logging (where needed)
8. Checking of the end switches' functionality in the open and closed position, possible correction and logging (where needed)
9. Check whether the damper is fulfilling its role as part of the regulation system (where needed)
10. Check whether the damper remains in its standard operating position
11. The damper is usually part of a system. In that case the whole system needs to be checked as described in its operation and requirements published by the builder of the system

Activation of the Damper												
Mark the Applied Installation Method with a Cross:												
① Wet	② Dry	③ Soft	④ Kit	5.1 On	5.2 On	5.3 On	5.4 On	6.1 Out	6.2 Out	6.3 Out	6.4 Out	⑦ Multi

Periodic Damper Inspections – at Least Once Every 12 Months		
Date	Description of the Discovered Defects and the Date of the Following Inspection after the Elimination of Deficiencies.	Inspection Technician's Signature

WARRANTY CONDITIONS

For warranty conditions contact Your local Systemair representative.

Before you can install the fire damper, it's functionality must be tested as per chapter "Fire Damper Functionality Check".

DO NOT INSTALL NON-FUNCTIONING FIRE DAMPERS!

Changes of fire damper functionality, caused by transport or installation, aren't reclaimable after installation (deformations, damages, mechanical damage of the sealing material, foreign objects which can constrain the blade movement, wrong handling of the activation mechanism etc.).

Before you can connect the fire damper into the ductwork, the fire damper functionality must be checked again (according to chapter "Fire Damper Functionality Check").