

Smoke Control Ducts and Dampers *For Single Compartment Applications*

Fulfilling new requirements for EN product standards for CE Marking



FläktWoods

New Smoke Control Product Range

Fläkt Woods Smoke Control Ducts and Dampers achieves CE standard requirements, which from the 1st of July 2013 is mandatory!



ESAR

Closed damper meets the classification E 120 S, pressure class 1000 Pa



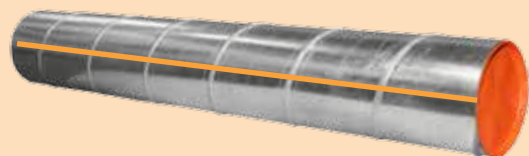
ESAS

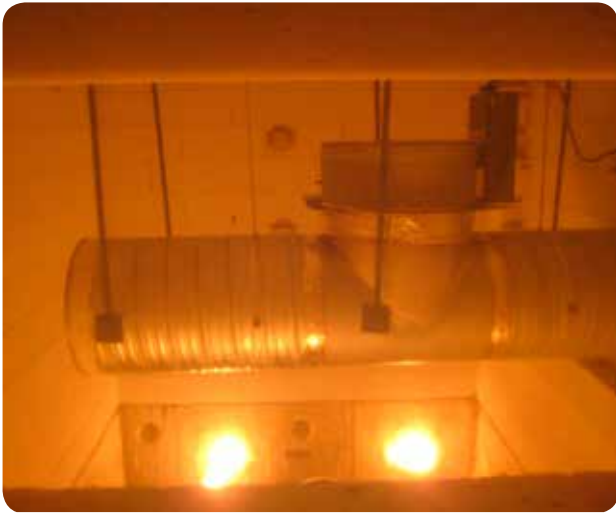
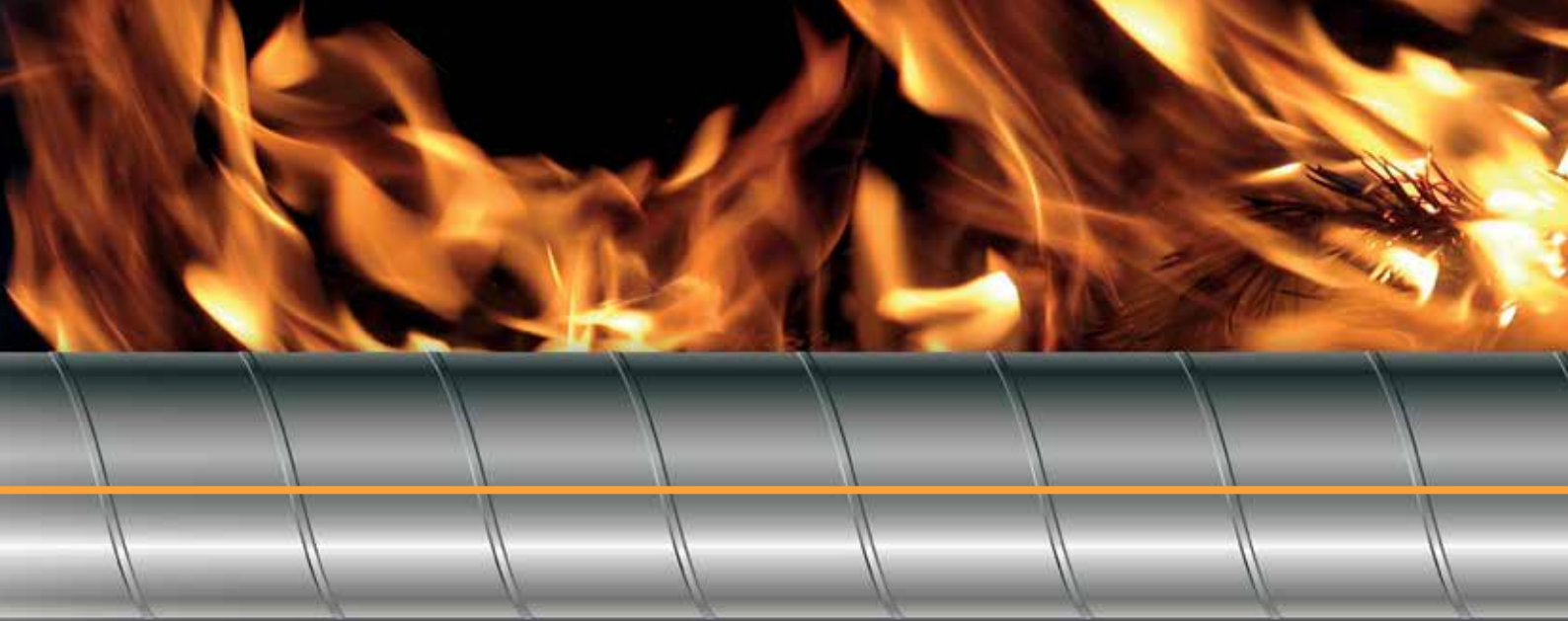
Closed damper meets the classification E 120, pressure class 500 Pa



ESAD

Duct system meets the classification E 120 S, pressure class 1500 Pa





PROVEN TECHNOLOGY

Our Dampers and Ducts system have been tested for 600°C/2 hours

Smoke leakages effect the efficiency of the smoke extract systems and put lives at risk when people are trying to evacuate a building during a fire.

The reliability of the smoke duct system during a fire is critical; ducts, fittings, hangers and dampers all have to be tested so, that they keep their stability and fittings remain tight and secure during a fire.

CE Marking guarantees performance

Fläkt Woods marks each component used for smoke control systems with a CE marking label. Smoke Control Ducts are marked with an orange colour label, which proves to the building owner that these products used meet product standards for smoke control purposes for Single Compartment Applications.



Proven - Fire Damper after the 2 hour fire test

Using Fläkt Woods installation instructions (delivered with all products) to determine test class category installation.

Products for fire safety purposes must be CE Marked and fire tested.

Our products components comply with EU safety, health and environmental requirements and with approved fire testing allows for our customer satisfaction and confidence in Fläkt Woods CE Marked products.

RELIABLE SMOKE CONTROL SYSTEM

Fläkt Woods smoke control dampers ESAR and ESAS can be opened or closed up to 25 minutes after a fire starts (600°C)



Smoke control dampers ESAR and ESAS are suitable to be started:

- Automatically by a fire alarm activated system (AA)
- Manually, after the fire has started, by fire fighter activated system (MA), 25 min open/close

Actuator:

- Factory mounted electrical actuator inside calcium-silicate box
- 2 free auxiliary switches for open/close position indication
- Fire resistant cable system should be used with installation

CE Marking Facts

CE Marking is mandatory in all European countries from the 1st of July 2013.

Fire tests are needed for all components to fulfill the requirements of these standards:

- Smoke Control Ducts = EN 12101-7
- Smoke Control Dampers = EN 12101-8

Fläkt Woods tests the whole Duct system and is fire tested together with Dampers to prove they comply with CE standards.

Fire tested to 600°C



Product Code

Smoke Control Damper ESAR -aaa - bb - c

Size (aaa)

Connection diameter 100...630 mm

Actuator voltage (bb)

54 = 24 V AC/DC motor

56 = 230 V AC motor

Actuator model (c)

1 = Standard

Product Code

Smoke Control Damper ESAS - aaaabbbb C dd e

Size (aaaabbbb)

Width (aaaa) x Height (bbbb),

Joint (C)

A = Slip

B = Flange

Actuator voltage (dd)

54 = 24 V AC/DC motor

56 = 230 V AC motor

Actuator model (e)

1 = Standard

Product Code

Smoke Control Duct ESAD - a - bbb

Length, meter (a)

a=3

Size (bbb)

Connection diameter Ø10...100 cm



we bring ^{better} air to life

Fläkt Woods is a global leader in air management. We specialise in the design and manufacture of a wide range of air climate and air movement solutions. And our collective experience is unrivalled.

Our constant aim is to provide systems that precisely deliver required function and performance, as well as maximise energy efficiency.

Solutions for all your air climate and air movement needs

Fläkt Woods is providing solutions for ventilation and air climate for buildings as well as fan solutions for industry and infrastructure.

● Air Handling Units (AHUs)

Modular, compact and small AHU units. Designed to ensure optimisation of indoor air quality, operational performance and service life.

● Air Terminal Devices and Ducts

Supply and exhaust diffusers and valves for installation on walls, ceiling or floor are all included in our large range and fit all types of applications.

● Chilled Beams

Active induction beams for ventilation, cooling and heating, and passive convection beams for cooling. For suspended or flushmounted ceiling installation – and multi-service configuration. With unique Comfort Control and Flow Pattern Control features.

● Residential ventilation

A complete range of products for residential ventilation. Consists of ventilation units, exhaust air fans and cooker hoods designed to optimise indoor comfort and save energy.

● Energy recovery

Dessicant-based products and systems that recover energy, increase ventilation and control humidity.

● Fans

Advanced axial, centrifugal and boxed fans for general and specialist applications. Comprehensive range including high temperature and ATEX compliant options. Engineered for energy efficiency and minimised life cycle cost.

● Chillers

Air-cooled and water-cooled chillers with cooling capacity up to 1800kW. Designed to minimise annual energy consumption in all types of buildings.

● Controls and drives

Variable speed drives and control systems, all tested to ensure total compatibility with our products. Our specialist team can advise on energy savings and overall system integration.

● Acoustical products

A complete line of sound attenuating products, including rectangular and round silencers. Media Free silencers, custom silencers and acoustic enclosure panels.

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