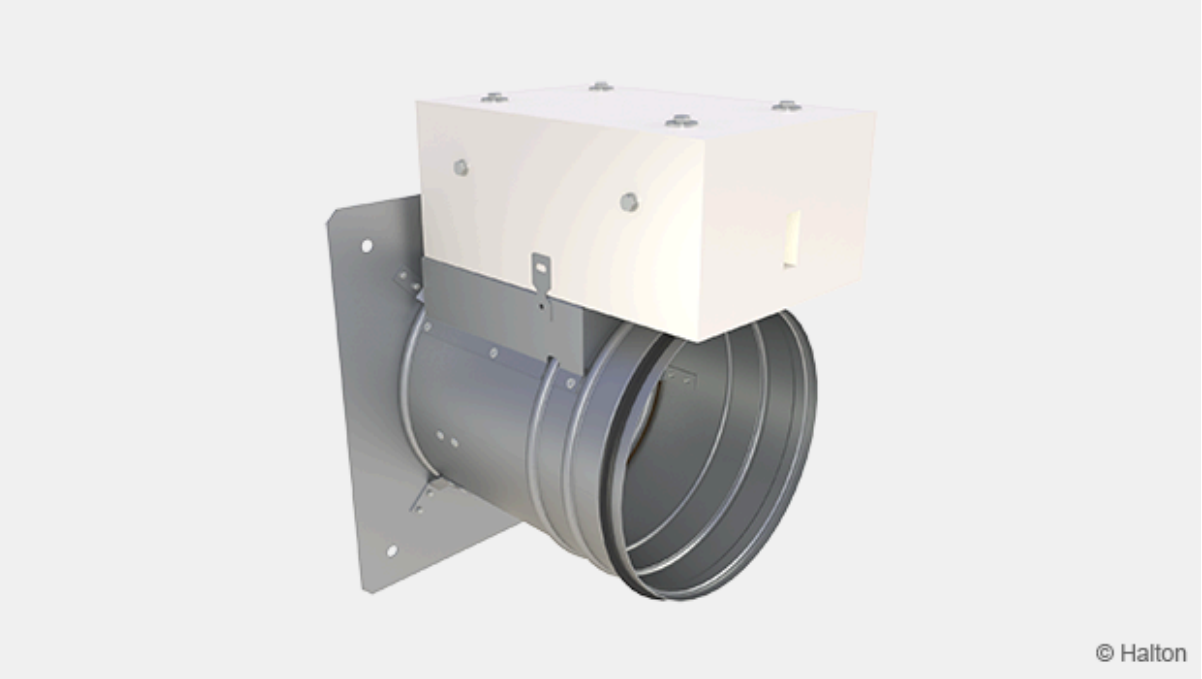
Halton Sec SFC – Smoke control damper (MAsingle)



Overview

This non-insulated smoke control damper is one of the lightest in the market. Light construction makes installation easy. It is suitable for installation to smoke extract ducts. Can also be installed direct to end of the smoke extract duct. Fire resistence class for all installation options is provided up to E_{600} 120 S requirements.

Features

- Installation to single zone fire compartment with manually activated systems (MA)
- Supplied with electrical non-spring return actuator (24 V or 230 V)
- Sizes from Ø100 mm up to 630 mm are available
- Maximum air velocity through smoke control damper in open position is 15 m/s.
- Suitability for use in smoke extraction ducts with a maximum of 1500 Pa under pressure
- Frame construction is galvanised steel
- No spare parts or additional installation frames needed, regardless of installation method

Installation options

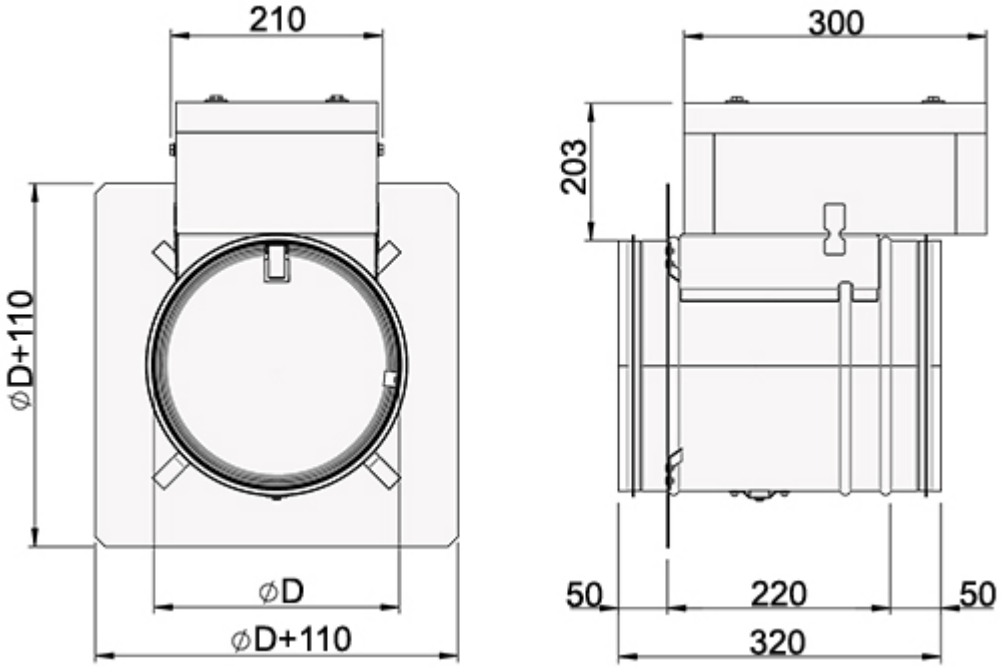
- Suitability for installation to the sides of the the horizontal smoke extract duct or directly to the end of the smoke extract duct

Standards

This product complies with the following standards:

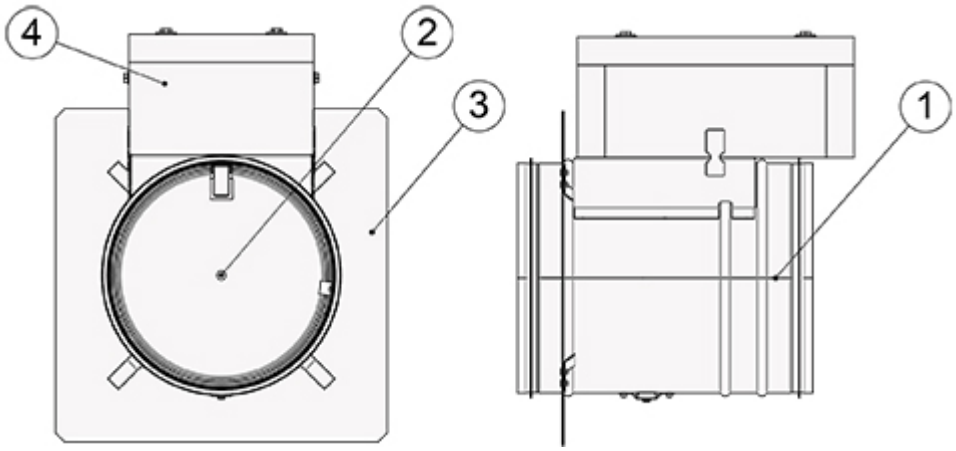
- CE certified according to product standard EN 12101-8
- Fire classification according to EN 13501-4 standard
  E_{600} 120 (v_{ed}-i↔o) S 1500C_{10000} MAsingle
- Fire testing according to EN 1366-10
- CE certificate of constancy of performance No: 1391-CPR-2018/0210
- Declaration of Performance No: 10035-SFC-2019/01/01
- Smoke control damper casing tightness class C according to EN 1751
- Leakage through closed damper blade fulfils class 4 (Ø125-630 mm) and class 3 (Ø100 mm) according to EN 1751

Dimensions and weight



NS [mm]	ØD [mm]	Weight [mm] With electrical actuator
100	99	10.0
125	124	10.5
160	159	11.0
200	199	12.0
250	249	13.0
315	314	14.5
355	354	15.5
400	399	16.5
500	499	19.5
630	629	24.5

Structure and materials



Number	Part	Material	Note
1	Casing	Galvanised steel	–
2	Blade	Galvanised steel	–
3	Installation flange	Galvanised steel	–
4	Operating model (actuator)	–	Actuator cover, asbestos free boards (mineral fibre)

Operating models

Electric actuator

The Halton Sec SFC smoke control damper is equipped with an electric actuator, 24 V or 230 V (no spring return or fuse aloud). The actuator is equipped with built-in limit switches for indicating both open and closed positions.

The smoke control damper must be connected to a common fire alarm or building automation system. It can be used in manually (MA) activated systems.

The non-combustible electric cables are connected to the electrical actuator inside the heat insulated cover box (mineral fibre).

Order code	Operating model	Damper sizes (ØD, mm)	Operating voltage	Limit switch
R1	BEN 24 15 Nm	100 – 630	AC/DC 24 V	✓
R2	BEN 230 15 Nm	100 – 630	AC 230 V	✓

Function

The Halton Sec SFC single compartment smoke control damper is CE certified for horizontal duct orientation. It fulfils the fire resistance class up to **E_{600} 120 (V_{ed}-i↔o) S 1500C_{10000} MAsingle** requirements

Smoke control dampers allow smoke to be extracted from the single compartment smoke zone by dedicated smoke extraction systems. In case of fire sequence of operation is important, smoke extract fans should not be started before the smoke control dampers are opened.

The smoke control damper must be connected to a common fire alarm or building automation system. It can be used in manually (MA) activated systems. The non-flammable cables must be connected to electrical actuator inside the heat insulated cover box.

The smoke control damper is equipped with an electric actuator 24 V or 230 V (no spring return or fuse aloud). The actuator is equipped with built-in limit switches for both open and closed position.

Installation

Please see/download Installation Guide for this smoke control damper from section Downloads.

Servicing

No regular maintenance is required for the product.

To ensure proper operation of smoke control dampers, an inspection must be carried out regularly according to local building codes. The minimum recommended inspection period is **every 6 months**. Documentation of testing must be saved for future needs.

The smoke control damper must be connected to a common fire alarm or building automation system.

Upon failure during testing of the fire damper, maintenance service shall be ordered from an authorised Halton representative to ensure appropriate operation of the product.

Specification

The single compartment smoke control damper is CE certified and marked according to the standard EN 12101-8 and fire tested according to the EN 1366-10 standard.

A smoke control damper of maximum fire resistance class **E_{600} 120 (v_{ed}-i↔o) S 1500C_{10000} MAsingle** requirements

The smoke control damper casing complies with the tightness requirements for EN 1751 class C. Leakage through closed damper blade fulfils class 4 (Ø125-630 mm) and class 3 (Ø100 mm) according to EN 1751

The casing and the blade of the smoke control damper are made of galvanised steel.

The smoke control damper can be installed to horizontal smoke extract duct or directly to the end of the smoke extract duct.

The actuator is equipped with built-in limit switches for both open and closed position.

The non-combustible electric cables are connected to the electrical actuator inside the heat insulated cover box (mineral fibre).

Order code

SFC-D; MA-OP-ZT

D = Size of duct connection [mm]
100, 125, 160, 200, 250, 315, 355, 400, 500, 630

Other options and accessories

MA = Material
GS Galvanised Steel

OP = Operating model
R1 BEN24, 24 V, 15 Nm
R2 BEN230, 230 V, 15 Nm

ZT = Tailored product
N No
Y Yes (ETO)

Order code example

SFC-200, MA=GS, OP=R1, ZT=N