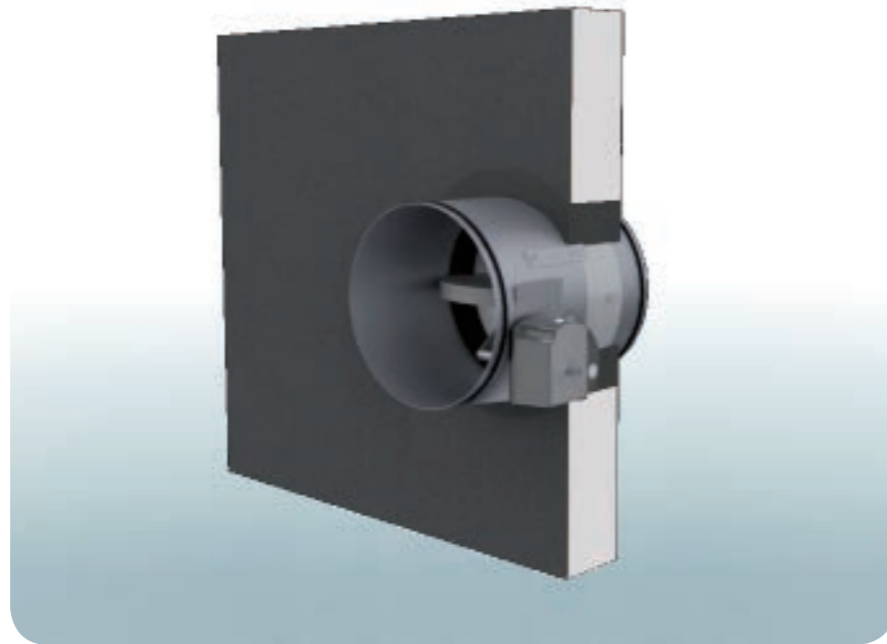


SCFC



SCFC-PD



Circular fire damper

Product description

Circular fire dampers, KOOLAIR brand, models **SCFC**, are certified under the norm UNE EN 1366-2:2000. Dimensions Ø_.

The housing is composed of a single body of steel sheet with an innercutout reinforced by a slotted perforated frame that eliminates completely the thermal bridge.

The dampers are closed when the thermal fuse blows or trips at temperatures above 70°C and are manually reset in all versions.

The operating mechanism components are manufactured of zinc coated steel and built into a plastic casing.

The mechanism assembly is offset from the pivot shaft of the slat, which allows access to the unit for maintenance and inspection.

The Koolair fire dampers have the CE marking in accordance with the Construction Products Directive 305/2011/EU, following the standard EN15650:2010 and classification in accordance with EN 13501-3:2005.

Also available with "NF" marking.

Models

SCFC-PD S/UNE-EN 1366-2:2000. Circular fire damper class:
 EI-120 (ve i ↔ o) S (500 Pa) for wall,
 EI-180 (ho i ↔ o) S (500 Pa) for ceiling/floor slab,
 EI-120 (ve i ↔ o) S (500 Pa) for flexible wall.
 Dimensions from Ø 100 to Ø 355 mm

SCFC-GD S/UNE-EN 1366-2:2000. Circular fire damper class:
 For sizes from Ø 400 to Ø 630 mm
 EI-180 (ho i ↔ o) S (500 Pa) or ceiling/floor slab.
 For sizes from Ø 200 to Ø 800 mm
 EI-180 (ve i ↔ o) S (500 Pa) for wall.

Motor-driven circular fire dampers SCFC-PD and SCFC-GD can be incorporated into KOOLAIR's KOOLCOM system for managing and monitoring fire dampers.

Accessories

TH-70. Fusible link.

TH-70 + FC. Fusible link + end of stroke switch.

TH-70 + PC/FC. Fusible link + beginning and end of stroke switch.

B IMP 24V/48V DC + FC. Electromagnetic push coil (normally de-energized) 24V/48V DC, with end of stroke switch.

B IMP 24V/48V AC + FC. Electromagnetic push coil normally de-energized) 24V/48V AC, with end of stroke switch.

B IMP 220V + FC. Electromagnetic push coil (normally de-energized) 220V AC, with end of stroke switch.

B RUPT 24V/48V DC + FC. Electromagnetic pull coil (normally de-energized) 24V/48V DC, with end of stroke switch.

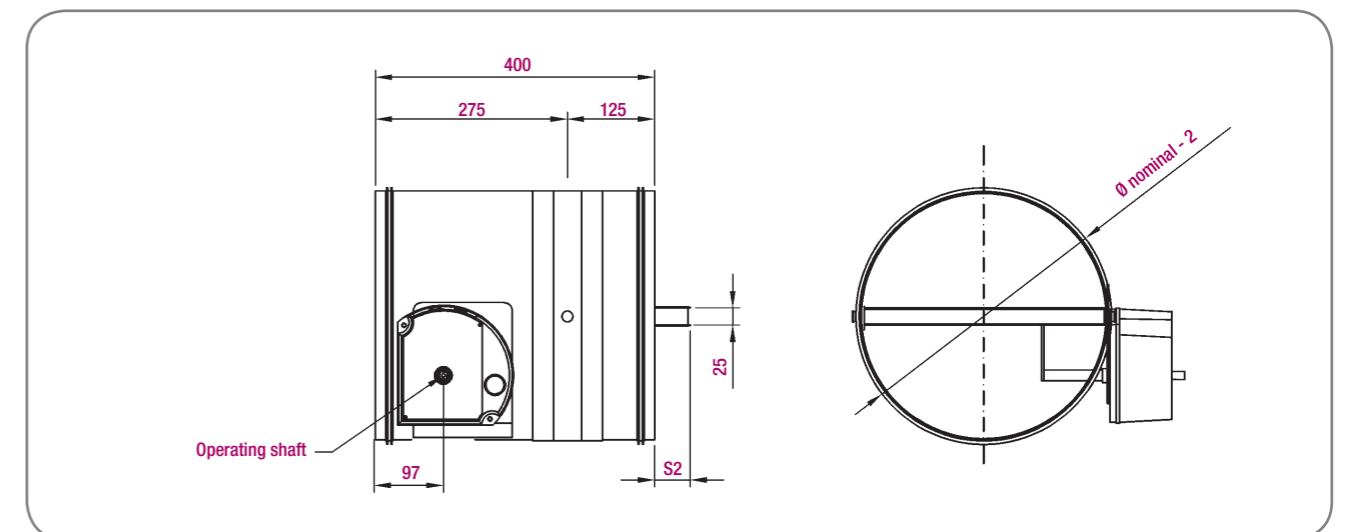
B RUPT 24V/48V AC + FC. Electromagnetic pull coil (normally de-energized) 24V/48V AC, with end of stroke switch.

B RUPT 220V + FC. Electromagnetic push coil (normally de-energized) 220V AC, with end of stroke switch.

MOTOR-24-T. Servomotor 24V AC/DC with thermo-fuse + beginning and end of stroke switch.

MOTOR-230-T. Servomotor 230V AC with thermo-fuse + beginning and end of stroke switch.

General dimensions (SCFC-PD)



| ø Nominal | S2 |
|-----------|----|
| 100 | — |
| 125 | — |
| 160 | — |
| 200 | — |
| 250 | — |
| 315 | 25 |
| 355 | 50 |

Unit mm



SCFC

Selection table (SCFC-PD)

| Size | Q (m³/h) | L _{WA} [dB(A)] | ΔP _t (Pa) | V _p (m/s) |
|------|----------|-------------------------|----------------------|----------------------|
| 100 | 75 | 25 | 18 | 4,2 |
| | 95 | 30 | 27 | 5,2 |
| | 115 | 35 | 41 | 6,4 |
| 125 | 165 | 30 | 19 | 5,3 |
| | 205 | 35 | 30 | 6,6 |
| | 250 | 40 | 45 | 8,1 |
| 160 | 380 | 35 | 22 | 6,8 |
| | 465 | 40 | 34 | 8,4 |
| | 575 | 45 | 51 | 10,4 |
| 200 | 800 | 40 | 22 | 8,7 |
| | 985 | 45 | 33 | 10,8 |
| | 1210 | 50 | 50 | 13,3 |
| 250 | 1350 | 40 | 22 | 9,0 |
| | 1660 | 45 | 34 | 11,1 |
| | 2050 | 50 | 52 | 13,7 |
| 315 | 2290 | 40 | 16 | 9,3 |
| | 2830 | 45 | 25 | 11,5 |
| | 3490 | 50 | 38 | 14,2 |
| 355 | 2770 | 40 | 13 | 8,7 |
| | 3410 | 45 | 20 | 10,8 |
| | 4210 | 50 | 30 | 13,3 |

LEGEND

Q (m³/h): Air flow.
 ΔP_t (Pa): Pressure drop.
 L_{WA} [dB(A)]: Sound power level.
 V_p (m/s): Effective velocity.

Selection table (SCFC-GD)

| Size | Q (m³/h) | L _{WA} [dB(A)] | ΔP _t (Pa) | V _p (m/s) |
|------|----------|-------------------------|----------------------|----------------------|
| 400 | 3980 | 45 | 20 | 10,5 |
| | 4960 | 50 | 31 | 13,0 |
| | 6170 | 55 | 47 | 16,2 |
| 450 | 4650 | 45 | 13 | 9,5 |
| | 5790 | 50 | 21 | 11,8 |
| | 7210 | 55 | 32 | 14,7 |
| 500 | 5490 | 45 | 12 | 8,9 |
| | 6830 | 50 | 18 | 11,1 |
| | 8500 | 55 | 29 | 13,8 |
| 560 | 6590 | 45 | 11 | 8,4 |
| | 8200 | 50 | 16 | 10,4 |
| | 10210 | 55 | 25 | 13,0 |
| 630 | 7980 | 45 | 9 | 7,9 |
| | 9930 | 50 | 15 | 9,8 |
| | 12360 | 55 | 23 | 12,3 |
| 650 | 8590 | 45 | 10 | 8,0 |
| | 10690 | 50 | 15 | 9,9 |
| | 13300 | 55 | 23 | 12,3 |
| 700 | 9510 | 45 | 9 | 7,6 |
| | 11840 | 50 | 13 | 9,4 |
| | 14730 | 55 | 21 | 11,7 |
| 710 | 9680 | 45 | 8 | 7,5 |
| | 12040 | 50 | 13 | 9,3 |
| | 14990 | 55 | 20 | 11,6 |
| 750 | 10530 | 45 | 8 | 7,2 |
| | 13110 | 50 | 12 | 9,0 |
| | 16310 | 55 | 19 | 11,2 |
| 800 | 11720 | 45 | 8 | 7,0 |
| | 14580 | 50 | 13 | 8,8 |
| | 18140 | 55 | 20 | 10,9 |

LEGEND

Q (m³/h): Air flow.
 ΔP_t (Pa): Pressure drop.
 L_{WA} [dB(A)]: Sound power level.
 V_p (m/s): Effective velocity.

