

# 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. Option for fire dampers to be supplied with class C air tightness in compliance with UNE-EN 1751.

### 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.

Catalogue Series SF

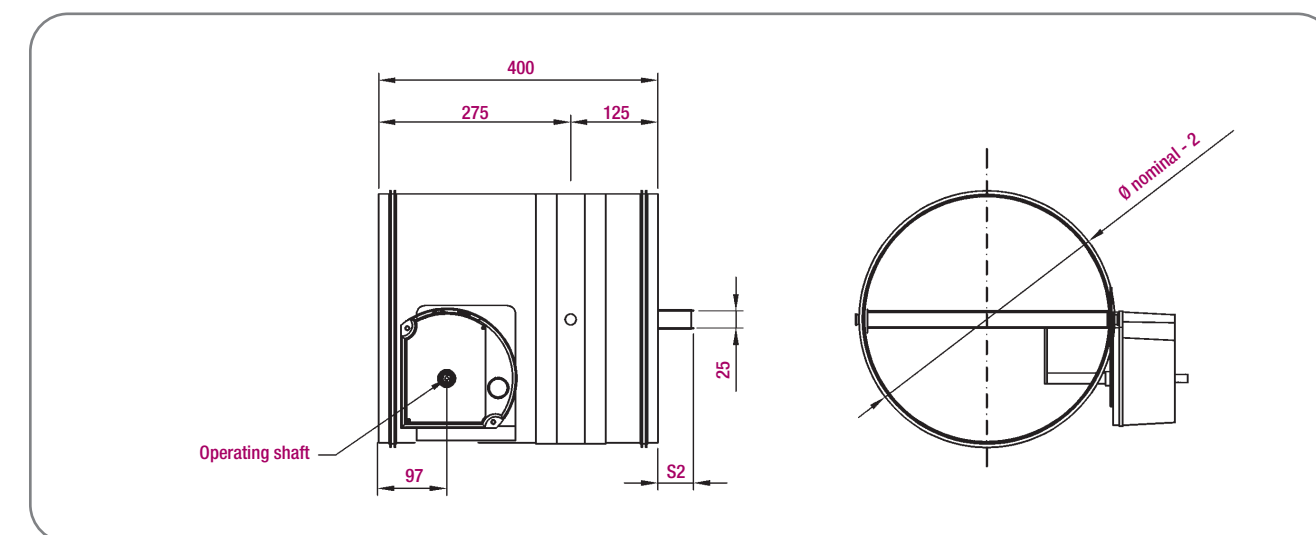


### Types of operating mechanisms

Automatic operation and reset by servomotor (**M BFL/BFN/BF 24/230**). These motors include start of stroke and end of stroke limit switches and a fusible link adjusted to 72 °C. ST junction module, connection unit and BSIA power supply unit available on request. Other closing operating mechanisms shall be:  
 - Operation by an alloy fusible link (**TH-70**).  
 - Operation by a shunt release coil (**24/48/230 Vac E or 24/48 Vdc E**), or by an undervoltage release coil (**24/48 Vdc R or 24/48/230 Vac R**).  
 Other reset operating mechanisms:  
 - Manual Reset (**MN**).  
 - Motor-driven reset (**M BL 24/48**).

Option to include position contacts in order to indicate an open or closed position.  
 - **DCU** - Start of stroke contact.  
 - **FCU** - End of stroke contact.  
 - **FCB** - Double end of stroke contact.  
 - **DCB** - Double start of stroke contact.  
 - **FDCU** - Start and end of stroke contact.  
 - **FDCB** - Double start and end of stroke contact.  
 - **FDCU - NF** - Start and end of stroke contact AS PER NF.  
 - **FDCB - NF** - Double start and end of stroke contact AS PER NF.

### General dimensions (SCFC-PD)



Ø Nominal	S2
100	—
125	—
150	—
160	—
200	—
225	—
250	—
300	14
315	25
355	50

Unit mm



# SCFC

Selection table (SCFC-PD)

Size	Q (m³/h)	L <sub>WA</sub> [dB(A)]	ΔP <sub>t</sub> (Pa)	V <sub>p</sub> (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
150	205	25	10	4,5
	255	30	16	5,5
	315	35	24	6,8
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
225	1060	40	22	8,9
	1305	45	34	11,0
	1610	50	51	13,5
250	1350	40	22	9,0
	1660	45	34	11,1
	2050	50	52	13,7
300	2050	40	17	9,3
	2525	45	26	11,4
	3115	50	40	14,1
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<sub>t</sub> (Pa): Pressure drop.

L<sub>WA</sub> [dB(A)]: Sound power level.

V<sub>p</sub> (m/s): Effective velocity.

Selection table (SCFC-GD)

Size	Q (m³/h)	L <sub>WA</sub> [dB(A)]	ΔP <sub>t</sub> (Pa)	V <sub>p</sub> (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.

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L<sub>WA</sub> [dB(A)]: Sound power level.

V<sub>p</sub> (m/s): Effective velocity.

