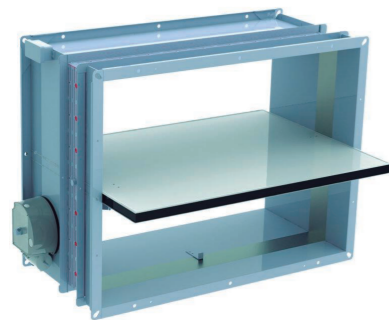


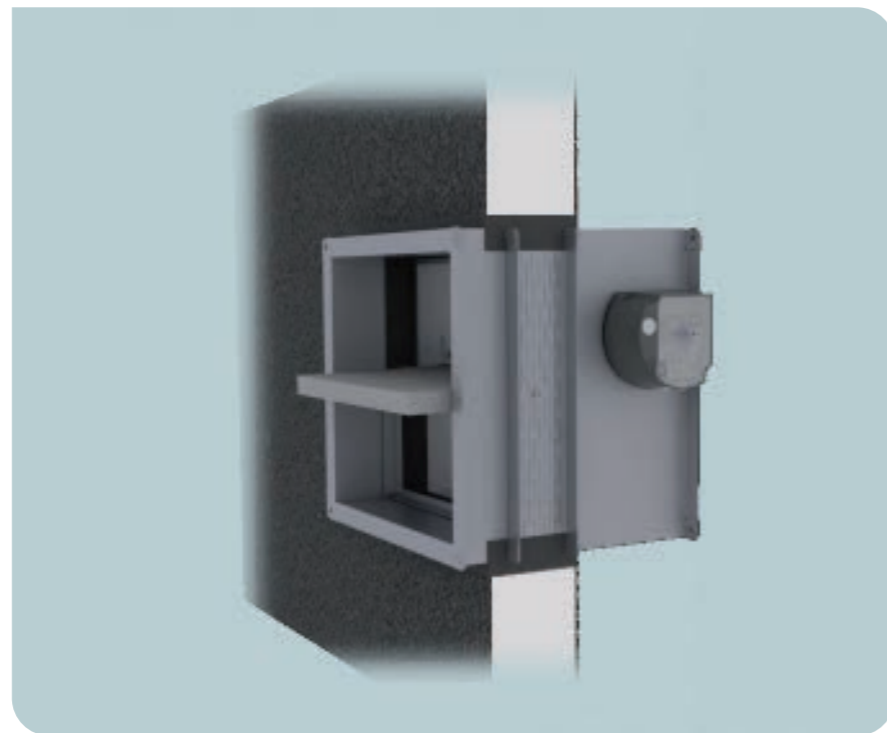
SCFR/SFR



Catalogue Series SF



SCFR-PD



Rectangular fire damper

Product description

Rectangular fire dampers, KOOLAIR brand, model **SCFR**, are certified under the norm UNE EN 1366-2:2000. Dimensions LxH. 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 (SCFR-PD and SCFR-GD).

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

Models

SCFR-PD S/UNE-EN 1366-2:2000. Classification: 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. Damper dimension from 200x100 mm to 800x600 mm.

SCFR-GD S/UNE-EN 1366-2:2000. Classification: EI-120 (ve i ↔ o) S (500 Pa) for wall, EI-120 (ho i ↔ o) S (500 Pa) for ceiling/floor slab. Damper dimension from L>800 mm or H>600 mm to 1500x800 mm.

SCFR-3H S/UNE-EN 1366-2:2000. Classification: EI-180 (ve i ↔ o) S (500 Pa) for wall. Damper dimension from 200x200 mm to 1500x800 mm.

Motor-driven rectangular fire dampers SCFR-PD, SCFR-GD and SCFR-3H can be incorporated into KOOLAIR's KOOLCOM system for managing and monitoring fire dampers.

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:

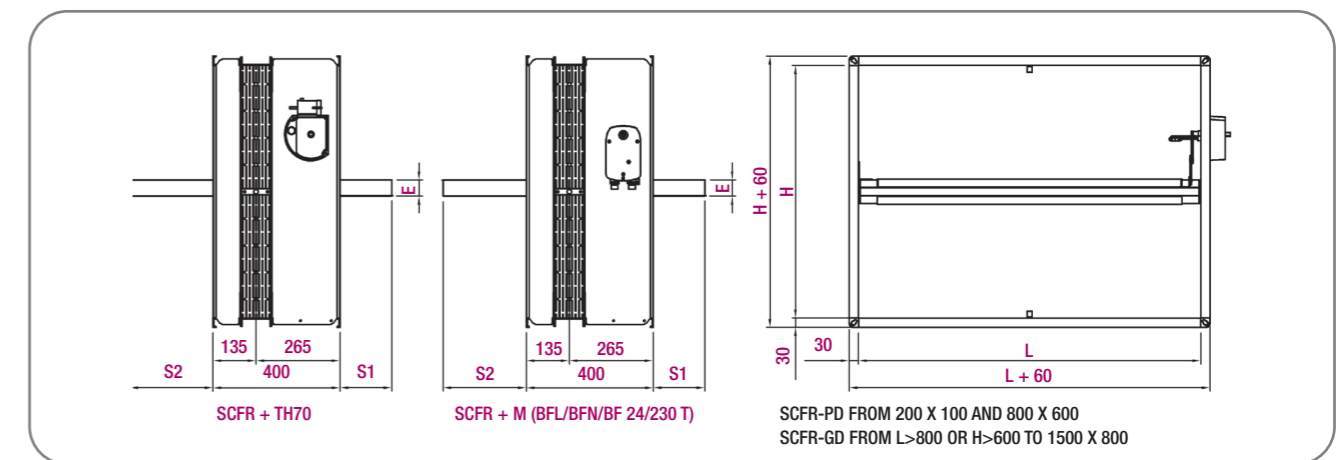
- Operation by an alloy fusible link (**TH-70**).
- Operation by a shunt release coil (**24/48/230 Vac E or 24/48 Vdc E**), or by an undervoltage release coil (**24/48 Vdc R or 24/48/230 Vac R**).

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



H	S1	S2	E (SCFR-PD)	E (SCFR-GD)
100	-	-	25	-
150	-	-	25	-
200	-	-	25	50
250	-	-	25	50
300	-	-	25	50
350	-	14	25	50
400	-	64	25	50
450	-	89	25	50
500	-	114	25	50
550	10	139	25	50
600	35	164	25	50
650	60	189	-	50
700	85	214	-	50
750	110	239	-	50
800	135	264	-	50

Unit mm



SCFR/SFR

Selection table (SCFR-PD)

Size	Q (m³/h)	L _{WA} [dB(A)]	ΔP _{st} (Pa)	V _p (m/s)
200x100	355	30	23	6,6
	435	35	34	8,0
	530	40	51	9,8
400x100	760	35	21	7,0
	925	40	31	8,6
	1130	45	46	10,5
250x200	1130	35	17	7,2
	1380	40	25	8,7
	1680	45	38	10,7
400x200	2160	40	15	8,6
	2630	45	22	10,4
	3200	50	33	12,7
350x250	2460	40	13	8,7
	3000	45	20	10,6
	3660	50	29	12,9
400x300	3420	40	10	8,6
	4180	45	16	10,6
	5100	50	23	12,9
800x200	4130	40	9	8,2
	5040	45	14	10,0
	6150	50	21	12,2
500x400	4570	40	6	6,8
	5600	45	10	8,3
	6860	50	14	10,2
700x350	6150	40	8	7,5
	7540	45	12	9,2
	9240	50	18	11,3
650x450	5260	40	4	5,3
	6440	45	6	6,5
	7900	50	9	7,9
750x550	7950	40	4	5,6
	9740	45	7	6,9
	11940	50	10	8,4
800x600	8830	40	4	5,3
	10820	45	6	6,5
	13260	50	9	8,0



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 (SCFR-GD)

Size	Q (m³/h)	L _{WA} [dB(A)]	ΔP _{st} (Pa)	V _p (m/s)
900x200	2400	40	19	4,9
	2930	45	29	6,0
	3570	50	43	7,4
850x300	4390	45	20	5,7
	5380	50	31	7,0
	6590	55	46	8,6
1400x350	8630	45	12	5,7
	10570	50	18	7,0
	12960	55	27	8,6
850x650	11080	45	10	6,0
	13580	50	16	7,4
	16640	55	24	9,1
900x700	12980	45	9	6,2
	15900	50	13	7,6
	19500	55	20	9,3
1250x600	19420	50	11	7,8
	23800	55	16	9,6
	19420	50	11	7,8
1000x750	16890	45	7	6,7
	20700	50	11	8,2
	25370	55	17	10,1
950x800	17290	45	7	6,7
	21190	50	11	8,3
	25970	55	16	10,1
1300x600	17370	45	7	6,7
	21290	50	11	8,3
	26090	55	16	10,1
1150x700	18420	45	7	6,8
	22580	50	10	8,4
	27670	55	15	10,3
1100x800	21090	45	6	7,1
	25850	50	9	8,7
	31680	55	14	10,7
1500x800	28900	45	6	7,1
	35420	50	9	8,7
	43400	55	14	10,7



LEGEND

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