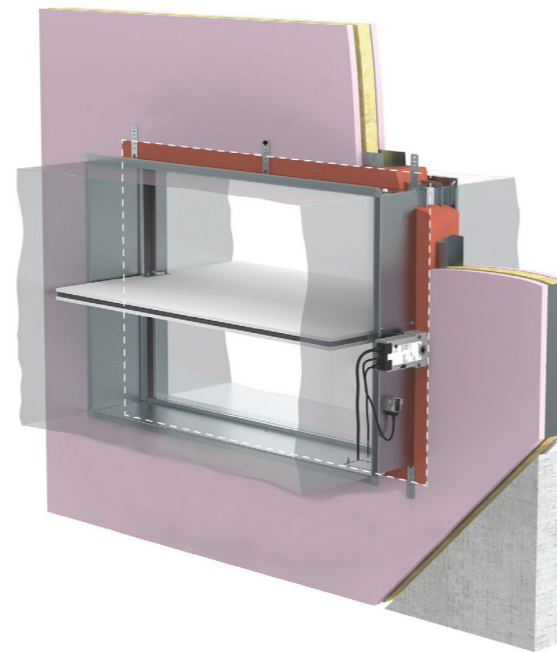


FDS-3G



FDS-3G



Rectangular fire damper

Product description

KOOLAIR model **FDS-3G** rectangular fire damper. Standard fire dampers are designed and certified in accordance with EN 15650 and tested according to EIS criteria in accordance with EN 1366-2. They provide passive fire protection designed to aid compartmentation, which prevents the spread of toxic gases, smoke and fire. All fire dampers are supplied with either a manual or motor-driven mechanism by default. Operating mechanisms are detachable and interchangeable, e.g. an actuator-driven mechanism can be changed for a manual mechanism. The dampers also have air-tightness class **C3** as standard.

Other models

FDS-3G-KS: Fire damper with square kit up to size 800 x 600 mm.

Types of operating mechanisms

Manually operated fire dampers: The operating mechanism is activated when the air temperature in the duct reaches 74 °C (Available with 100 °C fusible link under request) and the damper closes within 10 seconds after the fusible link melts.

H0 (Manual lever, no switches).

H2 (Manual lever, 2 switches start and end of stroke contact).

H5-2 (Manual lever, 24V AC/DC electromagnet-operated mechanism, 2 switches start and end of stroke contact).

H6-2 (Manual lever, 230V AC electromagnet-operated mechanism, 2 switches start and end of stroke contact).

Actuator-operated fire dampers: These dampers are equipped with a thermoelectric fusible link as standard, which triggers the closing of the damper after the ambient temperature reaches or exceeds 72 °C. The actuator's power supply circuit is interrupted and its spring closes the damper within 20 seconds. Belimo actuator available with 95 °C or 120 °C fusible link under request.

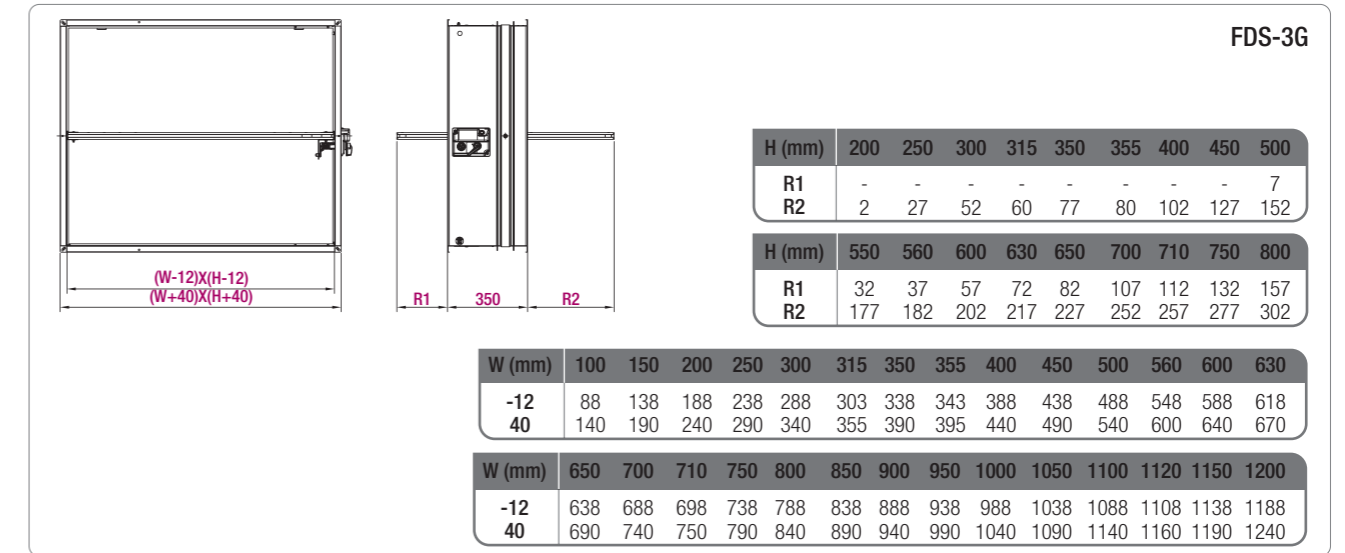
B230T (Belimo 230V AC Actuator).

B24T (Belimo 24V AC/DC Actuator).

B24T-W (Belimo 24V AC/DC Actuator and cable connector for communication unit).

Monitoring: Our motor-driven fire damper monitoring system, **KOOLCOM**, is available (see catalogue).

General dimensions



Unit in mm.

Selection table: (FDS-3G)

Size	Q (m³/h)	V _p (m/s)	ΔP _{st} (Pa)	L _{WA} [dB(A)]
200x100	230	3,19	6	25
	270	3,75	9	30
	320	4,44	13	35
400x100	480	3,33	7	25
	570	3,96	10	30
	660	4,58	13	35
250x200	660	3,67	4	25
	780	4,33	6	30
	920	5,11	9	35
400x200	1100	3,82	4	25
	1300	4,51	6	30
	1500	5,21	8	35
350x250	1250	3,97	4	25
	1450	4,60	5	30
	1750	5,56	7	35
400x300	1800	4,17	3	25
	2100	4,89	4	30
	2450	5,67	6	35
800x200	2250	3,91	3	25
	2700	4,69	5	30
	3100	5,38	7	35
500x400	3000	4,17	2	25
	3600	5,00	3	30
	4200	5,83	4	35
700x350	3800	4,31	2	25
	4400	4,99	3	30
	5300	6,01	4	35
650x450	4600	4,37	2	25
	5400	5,13	2	30
	6400	6,08	3	35
750x550	6700	4,51	1	25
	7800	5,25	2	30
	9300	6,26	2	35
800x600	7900	4,57	1	25
	9200	5,32	2	30
	11000	6,37	2	35

Size	Q (m³/h)	V _p (m/s)	ΔP _{st} (Pa)	L _{WA} [dB(A)]
900x200	2550	3,94	3	25
	3000	4,63	5	30
	3500	5,40	6	35
850x300	3900	4,25	2	25
	4600	4,01	3	30
	5500	5,99	5	35
1200x350	6500	4,30	2	25
	7800	5,16	3	30
	9200	6,08	4	35
850x650	9200	4,63	1	25
	10800	5,43	1	30
	12800	6,44	2	35
900x700	10800	4,76	1	25
	12800	5,64	1	30
	14900	6,57	2	35
1200x600	12000	4,63	1	25
	14300	5,52	2	30
	17000	6,56	2	35
1000x750	13000	4,81	1	25
	15500	5,74	1	30
	18000	6,67	2	35
950x800	13400	4,90	1	25
	16000	5,85	1	30
	18500	6,76	2	35
1100x600	11000	4,63	1	25
	13000	5,47	2	30
	15200	6,40	2	35
1150x700	13900	4,80	1	25
	16500	5,69	1	30
	19000	6,56	2	35
1000x800	14200	4,93	1	25
	16800	5,83	1	30
	19500	6,77	2	35
1200x800	17000	4,92	1	25
	20000	5,79	1	30
	23500	6,80	2	35

LEGEND

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