



VENTEC SCD LDN SHAFT DAMPER

IDEAL FOR: STAIRWELLS, SMOKE SHAFTS, LOBBIES & CORRIDORS

24 HR NEXT DAY DESPATCH **400 SERIES COMPATIBLE** **24V VOLT** **E120 TESTED**

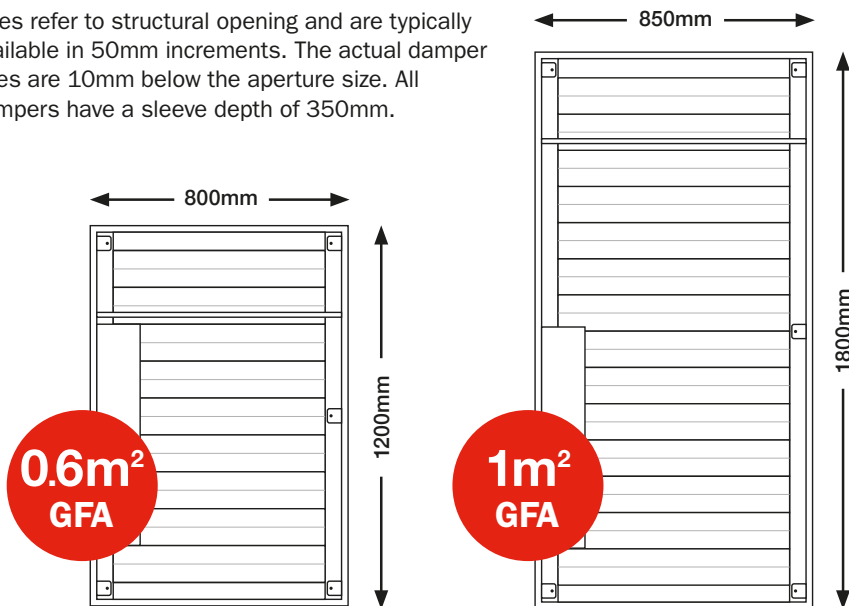
Product Summary

The Ventec SCD LDN Smoke Control Damper has been developed for use in smoke control systems serving multi-storey buildings – for both domestic and commercial smoke shafts. These shafts can be dry wall or masonry/concrete construction.

The lobby damper assembly consists of two parts; damper and grille. The main sleeved damper with peripheral flange allows it to be fitted flush into the builders aperture. A 24Vdc 'power open/power closed' actuator is used to drive the damper blades from the normal closed position to the fully open position. All damper internal surfaces are spray painted matt black to allow discreet installation behind the supplied aesthetic grille.

Dimensions (standard sizes)

Sizes refer to structural opening and are typically available in 50mm increments. The actual damper sizes are 10mm below the aperture size. All dampers have a sleeve depth of 350mm.



Product Highlights

- Cyclic tested for 10,000 operations
- Actuator hidden from view with easy access for maintenance
- Auxiliary contacts for position monitoring
- Supplied with aesthetic grille

Compliance

- BS EN12101-8 certified
- Tested to BS EN1366-10
- Classified to BS EN 13501-4
- Achieving: E (120 Vew i--->o) S 1000 C10,000 AA Multi

STANDARD SIZES – IN STOCK	
Structural Opening Width x Height	GFA (m ²)
800mm x 1200mm	0.6m ²
850mm x 1800mm	1m ²

Nominal Sizes Call For Details

Minimum Width 300mm
Maximum Width 1100mm
Minimum Height 1000mm
Maximum Height 2300mm



VENTEC SCD LDN SHAFT DAMPER



Technical Data (standard sizes)

	Ventec SCD LDN
Nominal Voltage	24Vdc
Nominal Voltage Frequency	50/60Hz
Power Consumption In Operation	12 watts
Power Consumption In Rest Position	0.5 watts
Power Consumption For Wire Sizing	18VA
Power Consumption For Wire Sizing Note	I _{max} 8.2A @ 5 ms
Auxiliary Switch	2 x SPDT
Connection Supply / Control	Cable 1m, 3 x 0.75mm ² , halogen-free
Connection Auxiliary Switch	Cable 1m, 6 x 0.75mm ² , halogen-free
Durability Of Operation	Min. 10,000 cycles
Protection Class IEC/EN	III Safety Extra-Low Voltage (SELV)
Protection Class Auxiliary Switch IEC/EN	II reinforced insulation
Degree Of Protection IEC/EN	IP54
EMC	CE according to 2014/30/EU
Low Voltage Directive	CE according to 2014/35/EU
Certification IEC/EN	IEC/EN 60730-1 and IEC/EN 60730-2-14
Rated Impulse Voltage Supply / Control	0.8 kV
Rated Impulse Voltage Auxiliary Switch	2.5 kV
Control Pollution Degree	3
Ambient Temperature	-30 to 50°C
Non-Operating Temperature	-40 to 80°C
Ambient Humidity	Max. 95% r.h. non-condensing

Fire Resistance Classification – What does it all mean?

Integrity (E) and Insulation (I) for test period (120 minutes)

Tested for approach of fire from one side

-1000Pa ambient and -300Pa in test conditions (pressure)

Automatic Activation in response to fire or smoke detection.

EI120

i→o

1000

AA

EI120 **V_{ew}** **i→o** **S** **1000** **C₁₀₀₀₀** **AA** **multi**

V_{ew}

S

C₁₀₀₀₀

multi

Tested when installed in vertical (wall) position

Reduced smoke leakage for test period. 200 m³/h/m²

Tested for 10000 cycles – smoke control and environmental

Suitable for both multi and single compartment applications

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Geometric Free Area (m²)


COLOUR KEY

 < 0.4m²

 < 0.6m²

 < 1.0m²

 < 1.5m²

 > 1.5m²
 STANDARD SIZES

		Structural Opening Width (mm)																
		300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100
Structural Opening Height (mm)	1000	0.14	0.18	0.21	0.25	0.28	0.32	0.36	0.39	0.43	0.46	0.50	0.53	0.57	0.61	0.64	0.68	0.71
	1100	0.16	0.20	0.24	0.28	0.32	0.35	0.39	0.43	0.47	0.51	0.55	0.59	0.63	0.67	0.71	0.75	0.79
	1200	0.17	0.22	0.26	0.30	0.35	0.39	0.43	0.48	0.52	0.56	0.61	0.65	0.70	0.74	0.78	0.83	0.87
	1300	0.19	0.24	0.28	0.33	0.38	0.43	0.47	0.52	0.57	0.62	0.66	0.71	0.76	0.81	0.85	0.90	0.95
	1400	0.20	0.25	0.31	0.36	0.41	0.46	0.51	0.56	0.62	0.67	0.72	0.77	0.82	0.87	0.92	0.98	1.03
	1500	0.22	0.27	0.33	0.39	0.44	0.50	0.55	0.61	0.66	0.72	0.77	0.83	0.88	0.94	1.00	1.05	1.11
	1600	0.23	0.29	0.35	0.41	0.47	0.53	0.59	0.65	0.71	0.77	0.83	0.89	0.95	1.01	1.07	1.13	1.19
	1700	0.25	0.31	0.38	0.44	0.50	0.57	0.63	0.69	0.76	0.82	0.88	0.95	1.01	1.07	1.14	1.20	1.26
	1800	0.27	0.33	0.40	0.47	0.53	0.60	0.67	0.74	0.80	0.87	0.94	1.01	1.07	1.14	1.21	1.28	1.34
	1900	0.28	0.35	0.42	0.49	0.57	0.64	0.71	0.78	0.85	0.92	0.99	1.07	1.14	1.21	1.28	1.35	1.42
	2000	0.30	0.37	0.45	0.52	0.60	0.67	0.75	0.82	0.90	0.97	1.05	1.12	1.20	1.27	1.35	1.43	1.50
	2100	0.31	0.39	0.47	0.55	0.63	0.71	0.79	0.87	0.95	1.02	1.10	1.18	1.26	1.34	1.42	1.50	1.58
	2200	0.33	0.41	0.49	0.58	0.66	0.74	0.83	0.91	0.99	1.08	1.16	1.24	1.33	1.41	1.49	1.57	1.66
	2300	0.34	0.43	0.52	0.60	0.69	0.78	0.87	0.95	1.04	1.13	1.21	1.30	1.39	1.48	1.56	1.65	1.74

Weight Chart (including actuator and grille – kg)

		Structural Opening Width (mm)								
		300	400	500	600	700	800	900	1000	1100
Structural Opening Height (mm)	1000	31	35	38	42	45	48	52	55	58
	1100	34	37	41	44	48	52	55	59	62
	1200	36	40	43	47	51	55	58	62	66
	1300	38	42	46	50	54	58	62	66	70
	1400	40	44	49	53	57	61	65	69	73
	1500	42	47	51	55	60	64	68	73	77
	1600	45	49	54	58	63	67	72	76	81
	1700	47	52	56	61	66	70	75	80	85
	1800	49	54	59	64	69	74	79	84	88
	1900	51	56	62	67	72	77	82	87	92
	2000	53	59	64	69	75	80	85	91	96
2100	56	61	67	72	77	83	88	94	99	
2200	58	64	69	75	80	86	92	98	103	
2300	60	66	72	78	83	89	95	101	107	

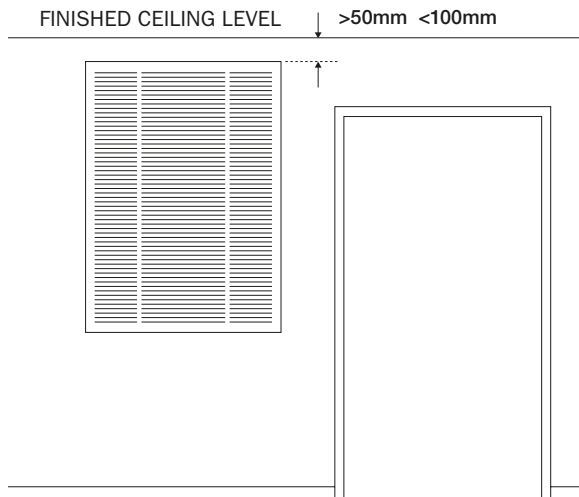
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Installation

During the installation of the damper, consideration must be given to future access and possibility of disassembly of the control-release mechanism in order to perform maintenance or technical review.

Lobby Positioning

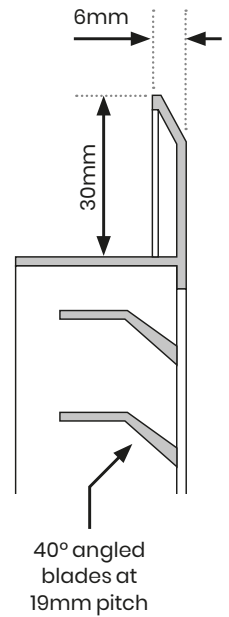
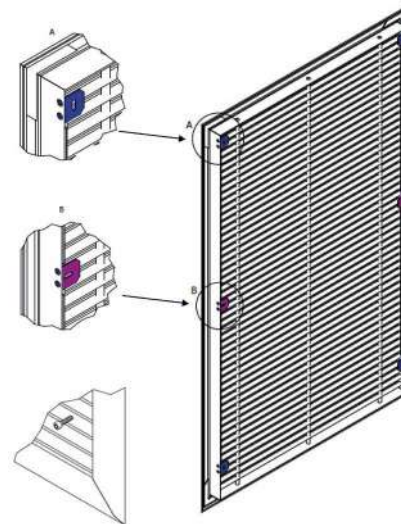
Vents from the lobby to be installed at least 50mm from the finished ceiling level to the top edge of the structural opening, or the top edge – as high as practicable and at least as high as the top edge of the stair door.



Grille Detail

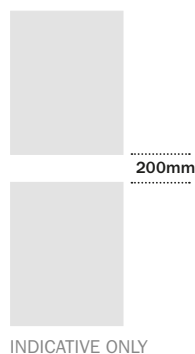
The Ventec SCD LDN grille has been designed to maximise the airflow while preventing physical interference with the damper blades. The grille is affixed to the damper with concealed colour matched fixings. RAL 9010 white is offered as a neutral standard colour with other RAL colours available on request.

Grille fixing screws pass through the grille blades and into the grille fixing bracket.



Multiple Unit Arrangement

Multiple modules can be installed in vertical or horizontal arrangement. A minimum constructed area of 200mm must be maintained between the individual damper units.



Maintenance

It is important to maintain this product as per the manufacturers instructions. If you require assistance with any aspect of installation, commissioning or maintenance please contact our customer care team today.

Related Products and Services



400 SERIES
BATTERY BACKUP



VENTEC 500-CB
COMPATIBLE



VENTEC 1000-G
COMPATIBLE



VENTEC 2000-CP
COMPATIBLE



INSTALLATION
& MAINTENANCE



PROJECT
COMMISSIONING