



fire design solutions



FAS 630 SMOKE EXTRACT FANS

TECHNICAL SHEET: BSDFan630



General Specification

The smoke extract fans are rated 300°C for 2 hours. Both duty and standby fans are provided and will change over automatically on failure of a fan. This is achieved by CTT monitoring of the supply current to the fan within the control panel.

Smoke Vent Axial Fan Units are part of a declared, tested and certified product range as defined within EN12101-3:2002. The fans are manufactured under strict quality procedures and carry their own product CE mark under EC Certificate of Conformity No: 0086-CPD-493001.

Features

- Fans tested to EN12101-3:2002
- Fans rated 300°C for 2 hours
- Flexible connections fire rated
- Fan feet sit on anti-vibration mountings to provide necessary isolation from the building fabric
- Fans connected to the shaft by DW144 1mm galvanized ducting in accordance with Smoke Ventilation Association (SVA) Guidance
- Fans and ducting are galvanized so can be left exposed to the elements



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Ref: BSDV18



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TECHNICAL SHEET: BSDFan630

Requirements

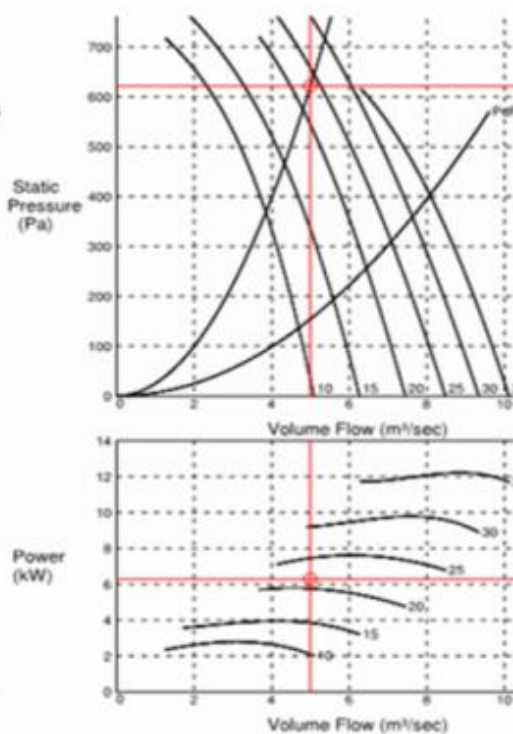
Volume: 5 m³/s
 Static Pressure: 410 Pa
 Selection Pressure: 621 Pa at std conditions
 Installation Category: TYPE D
 Temperature: 20 deg C
 Altitude: 0 m

Fan Data (at STP)

Type: Long Cased
 Smokevent Axial Fan
 Diameter: 630
 Hub: 255 mm
 Impeller Blades: 3
 Pitch: 21 degrees
 Blade Material: Aluminium
 Speed: 2910 RPM
 Absorbed Power: 6.27 kW
 Peak Power: 6.31 kW
 Impeller Total Eff: 62 %
 Specific Fan Power: OA

Motor Data (at STP)

Motor Type: Pad Mount 300
 Electrical Supply: 400V / 3 Ph / 50Hz
 Frame/Power/Eff: 112M / 6.33 kW / 0.0 %
 Current FLC/Start: 12.14A / 670% DOL
 Motor Speed: Single Speed (2 Pole)



Density: 1.

Sound Power

Spectrum (Hz)	63	125	250	500	1K	2K	4K	8K	dBW	dBA @ 3m
Outlet PWL (dB)	98	107	95	95	94	94	88	86	108	79
Inlet PWL (dB)	100	101	101	100	98	95	91	91	108	82

Note: Levels are quoted as in-duct values. dBA values are average spherical free-field for comparative use

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10.0 Attenuation



ATTENUATION

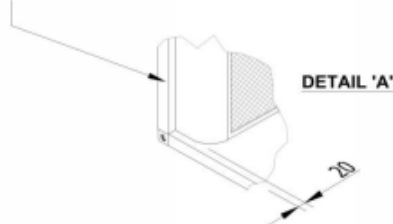
TECHNICAL SHEET: BSD-AT

SG splitter attenuator - with profile flanges

Notes:

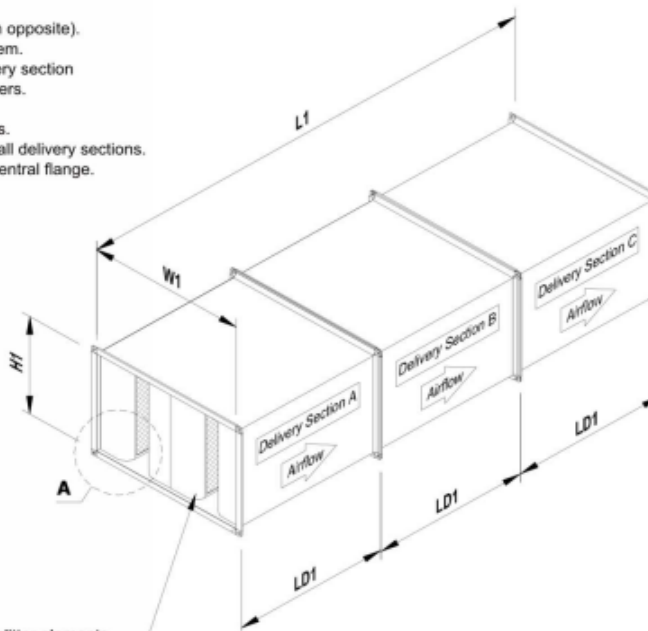
1. Attenuators may be delivered in 1, 2, 3 or 4 sections in length (3 shown opposite).
2. See **NDL** in table below for number of delivery sections in length per item.
3. Assembly of multiple piece items must be in accordance with the delivery section and airflow label layouts, typically as shown opposite. Assembly by others.
4. Nuts, bolts, flange clamps and gasket between flanges by others.
5. Delivery section and airflow labels only provided on multiple piece items.
6. Identification labels stating item reference and description provided on all delivery sections.
7. Where **LD1** exceeds 1250 each delivery section has an intermediate central flange.
8. All dimensions in mm.
9. Tolerances on **W1** & **H1** +/- 2mm.
10. Tolerances on **LD1** +/- 3mm

Profile flanges suitable for MEZ, DOBY or METU flanging systems. See table below for flange size.



Splitter elements set back in casing by 20mm and provided with aerodynamic bullnoses on inlet and outlet as shown. However if item has non-standard elements refer to Attenuator Model Code Definitions for details.

Splitter elements shown installed in the vertical plane. Refer to item Model Code for actual orientation.



Ref.	Construction Code	Primary Dimensions			Delivery Data		Flange Size	Paint Colour	Wt (Kg)	No. Off
		W1	H1	L1	LD1	NDL				
CPW/Fan/02	SG03V/3C/L/S	1000	1000	1350	450	3	30mm		162	1
CPW/Fan/02	SG01V/3C/L/S	1000	1000	1500	1500	1	30mm		155	1
CPH/Fan/03	SG02V/3C/L/S	1000	1000	1500	750	2	30mm		153	1
CPH/Fan/03	SG01V/3C/L/S	1000	1000	1500	1500	1	30mm		155	1

Ref.	Description	Noise Data Source	Vol (m³/s)	Total Static Pressure (Pa)	Octave band mid frequency (Hz)								Noise Data Type
					63	125	250	500	1k	2k	4k	8k	
	WHITE LION HOUSE		0.00	0									
CPW/Fan/02	RES EXTRACT	Manufacturer	4.00	0	92	92	86	86	86	82	78	75	In-duct Lw
CPW/Fan/02	RES EXHAUST	Manufacturer	4.00	0	92	91	85	85	86	83	78	75	In-duct Lw
			0.00	0									
	CENTER POINT HOUSE		0.00	0									
CPH/Fan/03	RES EXTRACT	Manufacturer	4.00	0	92	92	86	86	86	82	78	75	In-duct Lw
CPH/Fan/03	RES EXHAUST	Manufacturer	4.00	0	92	91	85	85	86	83	78	75	In-duct Lw

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