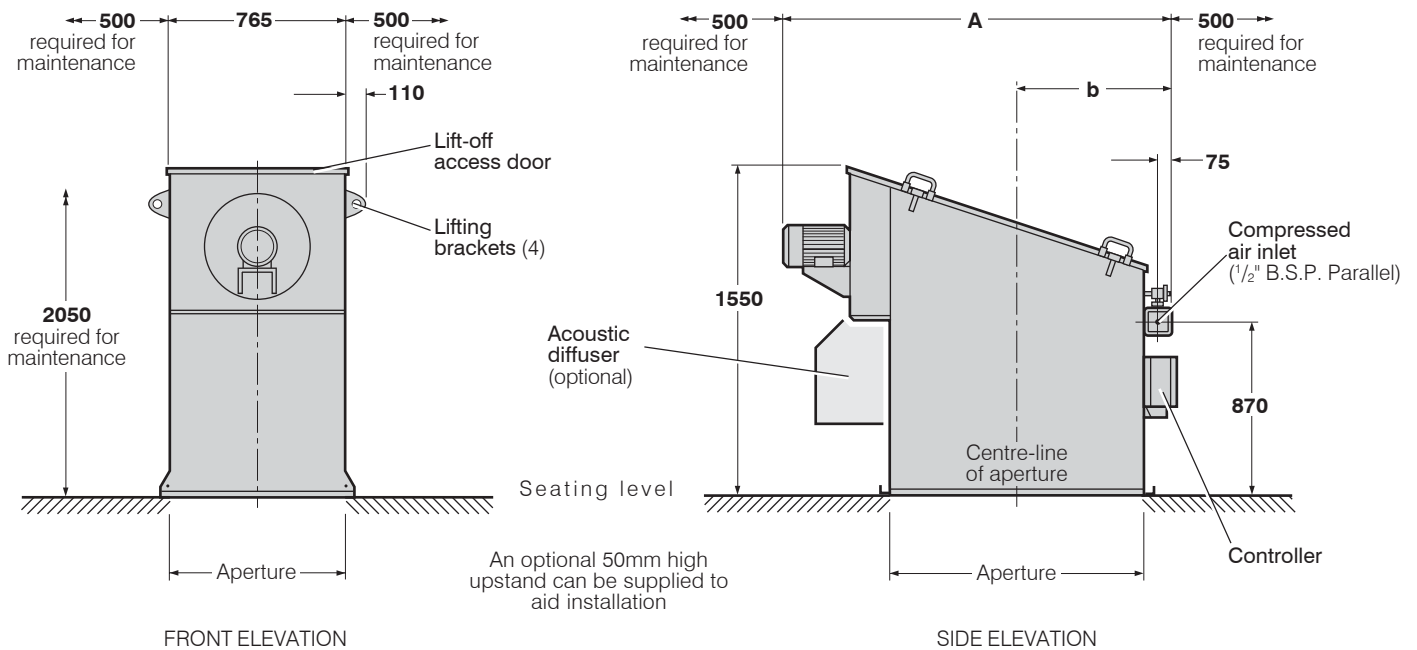


## Siloair Dust Filters

### Series VS10-28



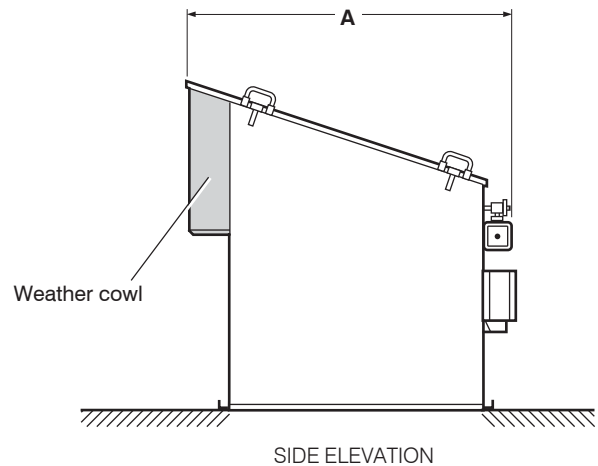
**Siloair filter with integral fan**  
Model VS28 KS5 illustrated

Filter type	Filtration area	No. of cartridges	DIMENSIONS in millimetres		Fan type	Fan motor	Approx. net weight
			A	b			
			<b>VS10</b>	10m <sup>2</sup>			
<b>VS14</b>	14m <sup>2</sup>	4	1200 1215	445	KS1 KS3	0.75 kW 1.50 kW	224 kg* 247 kg*
<b>VS15</b>	15m <sup>2</sup>	6	1480 1495	585	KS1 KS3	0.75 kW 1.50 kW	252 kg* 275 kg*
<b>VS20</b>	20m <sup>2</sup>	8	1785 1810	730	KS3 KS5	1.50 kW 2.20 kW	312 kg* 317 kg*
<b>VS21</b>	21m <sup>2</sup>	6	1495 1520	585	KS3 KS5	1.50 kW 2.20 kW	279 kg* 284 kg*
<b>VS28</b>	28m <sup>2</sup>	8	1810 1840	730	KS5 KS7	2.20 kW 3.00 kW	322 kg* 334 kg*

\*Indicates heaviest configuration

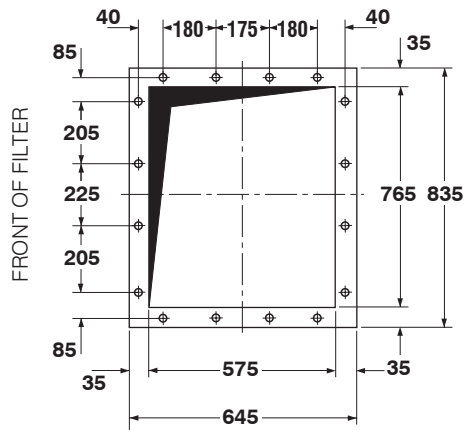
SPECIFICATIONS		
Filter type	DIMENSIONS in millimetres A	Approx. net weight
VS10W VS14W	960	176 kg
VS15W VS21W	1240	208 kg
VS20W VS28W	1530	246 kg

For all other dimensions refer to specification table on page 1

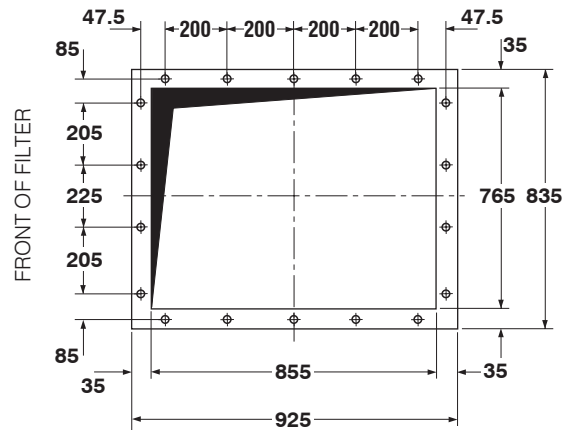


**Siloair filter with weather cowl**

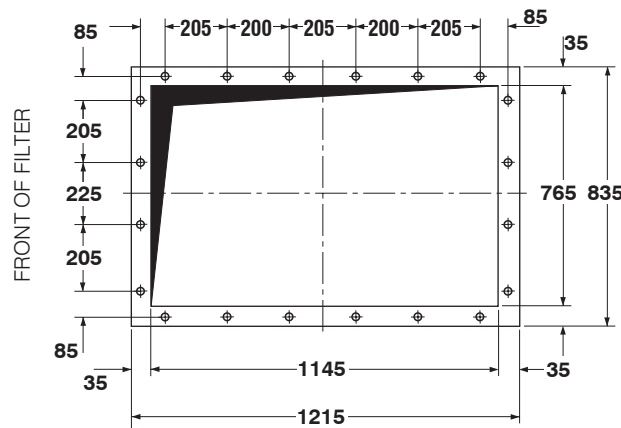
Model VS28W illustrated



VS10 and 14



VS15 and 21



VS20 and 28

**Aperture and mounting flange details**

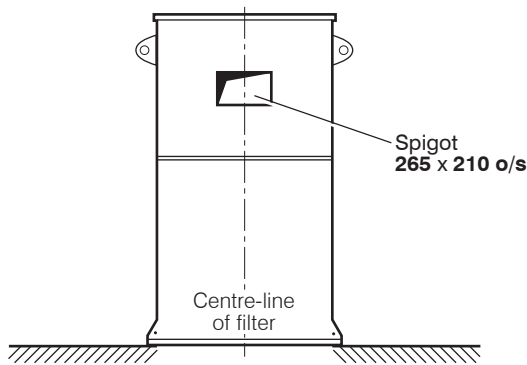
All holes 12mm diameter for M10 bolts

**ELECTRICAL REQUIREMENTS**

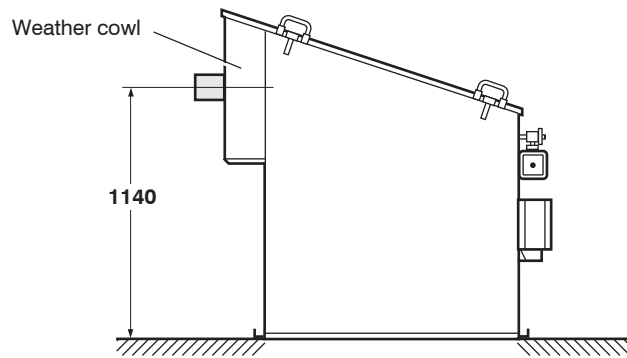
- VS10, 14, 15 and 21 filters: 2-way controller
- VS20 and 28 filters: 3-way controller
- Voltage input: AC version: 105-120V, 200-240V (±10%)  
DC version: 24V
- Fan motor (if fitted): To suit local voltage

**DESIGN LIMITS (standard equipment)**

- Temperature range: -10° to +60°C
- Pressure range: -500mm W.G. to +380mm W.G.
- Dimension tolerances: ±5mm on main dimensions  
±2mm on detail dimensions



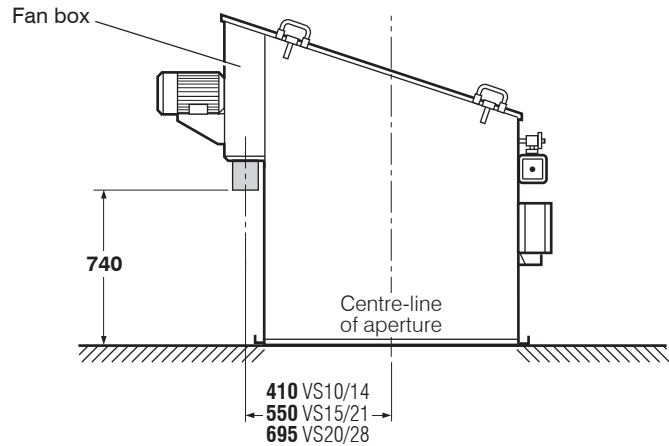
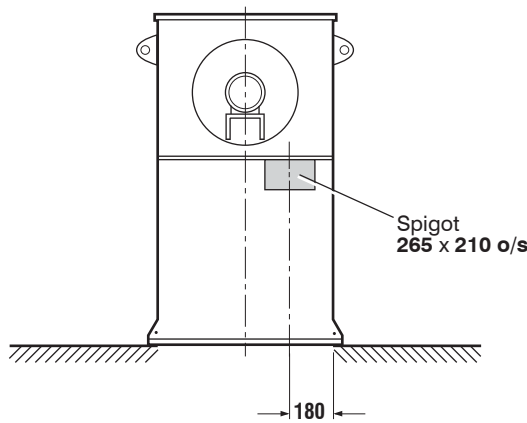
FRONT ELEVATION



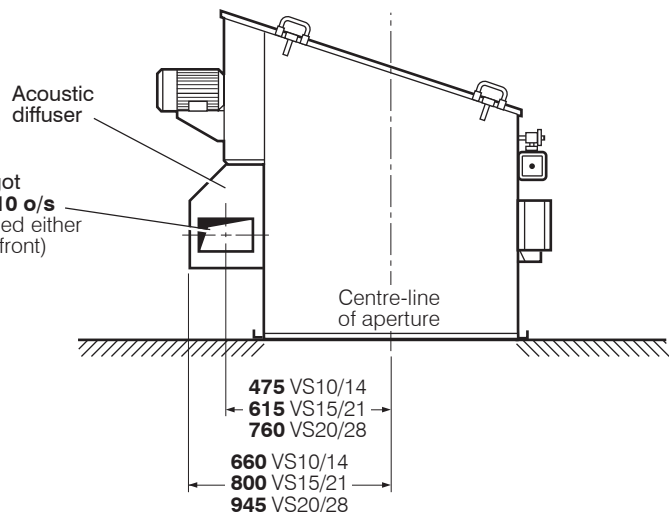
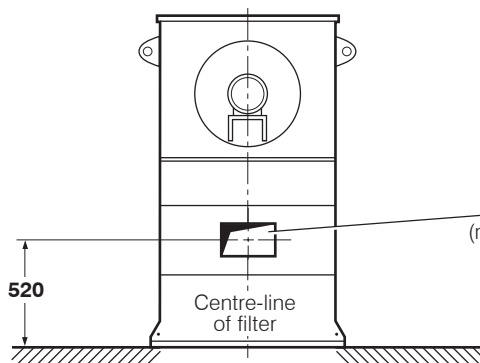
SIDE ELEVATION

**Optional weather cowl duct connection spigot**

NOTE: Spigot projects 100mm

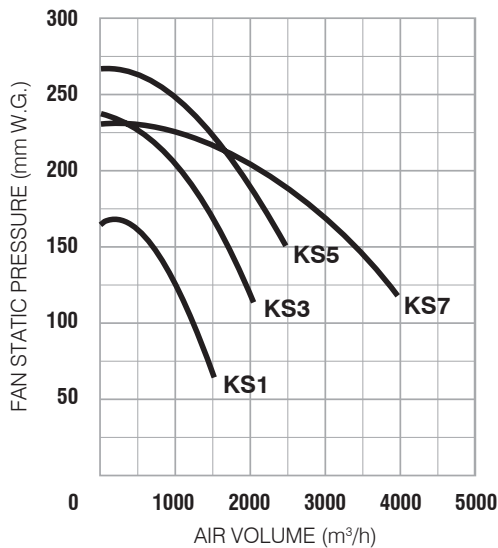


**Optional fan box duct connection spigot**



**Optional acoustic diffuser duct connection spigot**

NOTE: Spigot projects 100mm



**Fan performance curves**

### FAN SELECTION

To select the most suitable fan for a given application:

- 1 Determine the air volume, in m<sup>3</sup>/h, needed to give effective venting and dust control.
- 2 Estimate the pressure or suction (mm W.G.) in the housing on which the dust filter is positioned.
- 3 Assess the operational pressure drop (mm W.G.) across the clean side and dirty side of the filtering element – usually between 50 to 125mm W.G.
- 4 The sum of 2 and 3 gives the pressure (mm W.G.) required for fan selection purposes.
- 5 Consult graph for fan performances available.

### NOISE LEVELS

Machinery noise levels are an important consideration in the design and selection of new equipment. Several EC Directives and National Laws/Regulations adopting these directives make reference to airborne noise emissions. Actions that employers are required to comply with if employees are subjected to a daily personal noise exposure level of 85 dB(A) or more are also specified.

All Siloair filters, when fitted with acoustic diffuser, are below this action limit.

### WEIGHTED SOUND PRESSURE LEVELS

All readings were taken in normal industrial areas, i.e. semi-reverberant surroundings, with local equipment silent, at 1.0 metre radius from the equipment housing and 1.6 metres above base level, using a precision sound level meter and octave filter.

	KS1	KS3	KS5	KS7
With acoustic	74 dB(A)	74 dB(A)	76 dB(A)	79 dB(A)
Without acoustic	83 dB(A)	81 dB(A)	85 dB(A)	87 dB(A)

Noise levels of installed equipment may vary due to site conditions

### COMPRESSED AIR REQUIREMENTS

Filter type	Working compressed air pressure <sup>a</sup>		Atmospheric air volume – F.A.D. <sup>b</sup> at 12 sec. intervals <sup>c</sup>		Pulse duration
VS10	4.1 bar	60 psig	6.4 m <sup>3</sup> /h	3.7 cfm	100 millisecond.
VS14	4.8 bar	70 psig	7.2 m <sup>3</sup> /h	4.2 cfm	100 millisecond.
VS15	4.8 bar	70 psig	8.1 m <sup>3</sup> /h	4.8 cfm	100 millisecond.
VS20	4.8 bar	70 psig	8.1 m <sup>3</sup> /h	4.8 cfm	100 millisecond.
VS21	5.2 bar	75 psig	8.9 m <sup>3</sup> /h	5.2 cfm	100 millisecond.
VS28	5.2 bar	75 psig	8.9 m <sup>3</sup> /h	5.2 cfm	100 millisecond.

<sup>a</sup>Normal operating pressure. <sup>b</sup>Recommended atmospheric air volume of clean, dry compressed air.

<sup>c</sup>Recommended initial settings; these may be varied with experience.

For connection details please refer to Donaldson.



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