

DSS 1-630 A series

Type of regeneration: ---
 Residual oil content: $\leq 0.003 \text{ mg/m}^3$
 Volume flow rate: $8 \text{ m}^3/\text{h}$ to $6,290 \text{ m}^3/\text{h}$
 Connection: G 3/8 to DN 125



The advantages...

- ✓ **Pressure vessels MADE IN GERMANY**
 - Meets the highest safety standards
 - High-quality, durable coating
 - ✓ **Activated carbon pellets**
 - High-quality, compressed activated carbon pellets with low dust level
 - ✓ **Loose filling**
 - Maximum amount of activated carbon
 - Easy, environmentally friendly maintenance
 - ✓ **Stainless steel flow distributor at inlet and outlet**
 - Uniform flow distribution
 - Reduced dust formation
 - ✓ **Low dust level at outlet through stainless steel screen**
 - Reduced dust formation
 - Easy maintenance
 - ✓ **Oil indicator as standard**
 - Controls the saturation level of the activated carbon
 - Control point with lifetime reserve
 - ✓ **Vessel pressure gauge (DSS 10-630)**
 - Visual display of the operating situation
 - Ensures depressurised state before maintenance work
- .. result in an adsorber providing ..
- ✓ Maximum operational reliability
 - ✓ Long service life
 - ✓ Easy maintenance

Oil vapour adsorption – specific elimination of the second largest vapour phase in compressed air

Series DSS activated carbon oil vapour adsorbers reduce the oil vapour content of the compressed air to low residual levels. Oil vapour is the second largest vapour phase in compressed air and, like moisture, is highly likely to condense – in the case of oil vapour it condenses to form liquid oil. High-grade removal of oil vapour using an activated carbon oil vapour adsorber reliably prevents condensation processes during the cooling of compressed air and thus the formation of liquid oil. In addition, activated carbon oil vapour adsorbers remove a variety of other hydrocarbons, odours and flavours.

Series DSS 1-8 activated carbon oil vapour adsorbers consist of a powder-coated aluminium profile body, which is pressure-rated up to 16 bar and on which two end plates are mounted. Series DSS 10-100 and DSS 120-630 activated carbon oil vapour adsorbers

consist of welded and coated steel vessels, which are pressure-rated up to 11 or 16 bar. They are operated with activated carbon filling, consisting of 100% pure activated carbon. Flow distributors or stainless steel screens or stainless steel demister at the inlet and stainless steel screens or stainless steel demister at the outlet ensure uniform flow and reduced abrasion of the activated carbon.

Series DSS activated carbon oil vapour adsorbers are fitted with an oil indicator as standard, the DSS 10-630 models also feature a vessel pressure gauge. The oil indicator's control point is approximately 15% before the activated carbon filling needs to be replaced in order to ensure sufficient lifetime reserve until the activated carbon is replaced.



Technical data

Model	Nominal volume flow rate*1	Max. allowable operating pressure	Connection	Height	Width	Depth	Weight
DSS 1 A	8 m³/h	16 bar	G 3/8	392 mm	158 mm	180 mm	3 kg
DSS 2 A	15 m³/h	16 bar	G 3/8	567 mm	158 mm	180 mm	5 kg
DSS 3 A	25 m³/h	16 bar	G 3/8	817 mm	158 mm	180 mm	7.5 kg
DSS 4 A	35 m³/h	16 bar	G 3/8	1067 mm	158 mm	180 mm	10 kg
DSS 6 A	57 m³/h	16 bar	G 1/2	1107 mm	208 mm	215 mm	20 kg
DSS 7 A	72 m³/h	16 bar	G 1/2	1332 mm	208 mm	215 mm	24 kg
DSS 8 A	82 m³/h	16 bar	G 1/2	1532 mm	208 mm	215 mm	28 kg
DSS 10 A	110 m³/h	16 bar	G 1	1460 mm	265 mm	350 mm	45 kg
DSS 15 A	150 m³/h	16 bar	G 1	1700 mm	265 mm	350 mm	52 kg
DSS 20 A	200 m³/h	16 bar	G 1	1710 mm	290 mm	350 mm	67 kg
DSS 25 A	260 m³/h	16 bar	G 1	1720 mm	320 mm	350 mm	80 kg
DSS 30 A	320 m³/h	16 bar	G 1 ½	1760 mm	345 mm	350 mm	95 kg
DSS 40 A	410 m³/h	16 bar	G 1 ½	1820 mm	375 mm	350 mm	107 kg
DSS 60 A	590 m³/h	16 bar	G 1 ½	1850 mm	425 mm	350 mm	143 kg
DSS 80 A	770 m³/h	16 bar	G 2	1980 mm	460 mm	400 mm	190 kg
DSS 100 A	1,000 m³/h	16 bar	G 2	2000 mm	515 mm	400 mm	230 kg
DSS 120 A	1,200 m³/h	11 bar	DN 50	2020 mm	450 mm	570 mm	260 kg
DSS 150 A	1,480 m³/h	11 bar	DN 65	2070 mm	500 mm	650 mm	325 kg
DSS 210 A	2,080 m³/h	11 bar	DN 65	2100 mm	600 mm	745 mm	410 kg
DSS 240 A	2,430 m³/h	11 bar	DN 80	2200 mm	650 mm	800 mm	495 kg
DSS 290 A	2,930 m³/h	11 bar	DN 80	2200 mm	700 mm	855 mm	570 kg
DSS 370 A	3,700 m³/h	11 bar	DN 100	2340 mm	800 mm	950 mm	715 kg
DSS 510 A	5,080 m³/h	11 bar	DN 100	2600 mm	850 mm	1030 mm	940 kg
DSS 630 A	6,290 m³/h	11 bar	DN 125	2820 mm	950 mm	1100 mm	1200 kg

*1 – standardised to 1 bar(a) and 20°C for operating condition 7 bar operating pressure



For detailed technical data and reference variables, please refer to the relevant product data sheet which can be downloaded at www.fstweb.de