

# Activated Carbon Towers

**The MFC Activated Carbon Towers offer flow capacities from 816 to 2380 Nm<sup>3</sup>/h at 7 barg (480 to 1400 SCFM at 100 psig) and connection sizes from 2" to 3".**

Within the specialised pharmaceuticals, food and beverage, electronic and hospital industries, there is often a requirement to remove residual oil vapours and odours from the compressed air supply.

The use of desiccant air dryers, together with associated pre and after filtration, will remove liquid oil and water as well as reducing water vapours to pressure dewpoints of -20°C, -40°C and -70°C (-5°F, -40°F and -100°F).

**Residual oil content less than 0.003 mg/m<sup>3</sup> (0.003 ppm).**

Typically, oil content is reduced within these systems to levels of 0.01 mg/m<sup>3</sup> (0.01 ppm). In those applications requiring lower levels of oil removal, the use of Activated Carbon Towers will, by the use of adsorption, reduce the residual oil content to lower than 0.003 mg/m<sup>3</sup> (0.003 ppm).

Compressed air flows through the activated carbon bed adsorbing oil vapours and odours. The activated carbon is held in place using nickel plated support screens.



## Applications include

Chemical

Electronics

Food & Beverage



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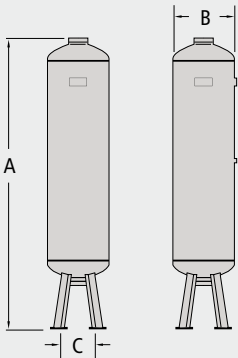
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# Technical Specification

filter model	pipe size	flow rate		dimensions (mm)		
		Nm <sup>3</sup> /h	SCFM	A	B	C
480MFC	2	816	480	2096	300	220
600MFC	2	1020	600	1940	434	260
800MFC	3	1360	800	2192	434	260
1000MFC	3	1700	1000	2211	508	362
1170MFC	3	1989	1170	2056	600	428
1400MFC	3	2380	1400	2305	600	428



480MFC to 1400MFC

Minimum working pressure	4 barg	58 psig
Maximum working pressure	16 barg	232 psig
Minimum inlet temperature	1.5°C	35°F
Maximum inlet temperature	50°C	122°F
Minimum ambient temperature	5°C	41°F

## technical notes

- 1 Activated carbon towers are manufactured from carbon steel and carry the CE mark.
- 2 Activated carbon towers are designed and manufactured in accordance with BS EN286.
- 3 Threaded connections are BSP parallel to ISO7/1.
- 4 Activated carbon must be changed periodically to suit the application, but at least every 6 months.
- 5 Activated carbon towers must not operate in oil saturated conditions and will not remove certain types of gases including carbon monoxide (CO) and carbon dioxide (CO<sub>2</sub>).
- 7 Activated carbon towers should not be used downstream of heat regenerative dryers.
- 8 Grade X1 and XA filtration is recommended upstream of activated carbon towers. Grade RX1 filtration is recommended downstream of activated carbon towers.

