MICRAFILTER

MicraSorb

MicraSorb are low-cost, disposable in-line adsorption filters for the removal of extraneous vapours and other types of molecular size contamination.

- Six types of adsorbent available for the removal of unwanted vapours from air and other gases
- Designed with a sealed transparent body for easy visual monitoring of performance and service life
- Low cost and completely disposable

MicraSorbs are ideal for the removal of vapour contamination in laboratory applications and the clean-up of instrument or actuator air supplies and sample streams.

- Also suitable for use with portable analysers and other analysis systems which require an easily replaceable filter
- Bespoke adsorbents are available for specific applications; please contact Micrafilter with your requirements

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www.micrafilter.com

BOISWOOD
GAS AND LIQUID CONTROL TECHNOLOGIES

Pressure & Vacuum
Flow
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Tube & Fittings
HVACR
Custom Services

Applications

- Gas analysis
- Liquid analysis
- Emission monitoring and analysis
- Sample analysis
- Stack gas sampling
- Gas and chemical filtration
- Instrumentation filtration
- Laboratory point of use protection
- Critical instrumentation protection
- General in-line and process protection
- Sample cross-contamination prevention

Industries

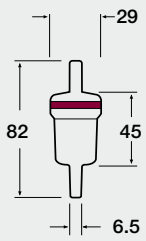
- Alternative fuels
- Automotive
- Chemical manufacturing
- CNG services
- Compressed air and gas
- Electronics
- Food processing and packaging
- Laboratories
- Oil refinery
- Pharmaceutical
- Power generation
- Waste disposal

For information regarding specific applications not listed please contact Micrafilter +44 (0) 191 416 4067

Technical Specification

MicraSorb

Filter Model	Adsorbent	Examples of Trace Gas Removal
MSB-AC	Activated carbon	Oil vapours, C5 and heavier hydrocarbons and organic vapours
MSB-MB	Soda lime (mixed calcium and sodium hydroxides)	Acidic gases (CO_2)
MSB-PP	Potassium permanganate impregnated alumina	SO_X (Sulphur Oxides)
MSB-SG	Silica gel	Water vapour
MSB-4A	Molecular sieve grade 4A	CO_2, H_2S, NH_3
MSB-13X	Molecular sieve grade 13X	Water vapour, C4 and lighter hydrocarbons and amines



Dimensions mm

Ordering:

All **MicraSorb** disposable filters are individually heat sealed in polythene packaging and supplied in packs of 10.

Technical Notes

1. The working life of a **MicraSorb** is dependent on the application, therefore change as required.
2. For higher temperature applications, please contact Micrafilter.

Specification						
Model	MSB-AC	MSB-MB	MSB-PP	MSB-SG	MSB-4A	MSB-13X
Filter material	Clear Nylon					
Adsorbent material	Activated carbon	Soda lime (mixed calcium and sodium hydroxides)	Potassium permanganate impregnated alumina	Silica gel	Molecular sieve grade 4A	Molecular sieve grade 13X
Maximum pressure	9 barg (130psig)					
Maximum flow rate	4.3 Nm^3/hr / 70NL/min / 2.5 SCFM					
Pressure loss (clean and dry)	140 mbar (2 psi)					
Optimal temperature range	4°C to 40°C (40°F to 104°F)	1.5°C to 35°C (34°F to 95°F)	1.5°C to 40°C (34°C to 104°C)	1.5°C to 40°C (34°F to 104°F)	1.5°C to 40°C (34°F to 104°F)	1.5°C to 40°C (34°F to 104°F)
Internal volume	11cm^3					

Flow Correction Chart	For maximum flow rate multiply model 'flow rate' in the table by the correction factor closest to the actual working pressure												
Operating pressure	barg	0.2	0.5	0.75	1	2	3	4	5	6	7	8	9
	psig	3	7.5	10	15	30	45	60	75	90	100	115	130
Correction factor		0.4	0.5	0.55	0.65	1	1.2	1.5	1.8	2.1	2.4	2.5	2.8

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