

MG-SERIES MG75 / MG95 / MG100 / MG400



MOBILE FILTER SYSTEMS

Mobile filter system with unique filter concept for elimination of gas and smoke created in different manufacturing processes.

The flexibility of the filter system, independence from fixed installations, combined with low running costs create a unit with very low cost of ownership.

A wide range of extraction arms, nozzles and spare parts provides flexible solutions for many different applications including:

- Soldering* <
- Solvents* <
- Gluing* <
- Laboratory work* <
- Cleanroom work* <
- Laser marking & cutting* <
- Coating* <



For better workbench environment!



MOBILE FILTER SYSTEMS

➤ Unique filter concept

The filter systems have a unique filter concept with a verified gas and particle separation performance. Gases contain complex and dangerous molecule structures, and in smoke, particles of different shapes and sizes can be found. The filter systems are built to handle most hazardous substances in air pollution that is generated by many different manufacturing processes.

➤ Low sound level

The MG filter systems have a low sound level, max 55 dB(A) in the operator zone. The filter systems does not therefore cause noise disturbance in a normal working area.

➤ Good economic performance

The filter systems are mobile and can easily be moved between different work stations. They have minimal need of service and a long filter lifetime. The flexibility of the filter system and the independence from fixed installations, combined with long filter lifetime and low energy consumption, create a very cost effective unit.

➤ Wide range of extraction arms and nozzles

The filter systems can be connected to a wide range of extraction arms and nozzles for optimal capture of the polluted air.

The control system in the MG filter systems can be delivered with software to integrate the start/stop function with other process equipment.

➤ Security

The filter systems are tested and verified by third party regarding separation degree of both gases and particles, which is unique on the market. The MG-filter system, extraction arms and nozzles are ESD-safe.

MG400



MOBILE FILTER SYSTEMS

MG75:

Filter unit with connection for one arm. Remote control for variable speed, filter lifetime indication and alarm functions.

MG95:

Filter unit with connection for one or two arms. Remote control for variable speed, filter lifetime indication and alarm functions.

MG100:

Filter unit with connection for one or two arms. Variable speed. Alarm function for filter lifetime indication.

MG400:

Filter unit with integrated prefilter and possibility to connect up to eight 60 mm arms or two CBC-A air curtain cabinets. Remote control for variable speed, filter lifetime indication and alarm functions.

Prefilter arm:

A bench mounted prefilter with an integrated 700 mm extraction arm with flexible hose.

Suction arm 3013:

Arm with horizontal link and metal nozzle (incl. table console). Can be equipped with valve.

Suction arm 3015:

Short extraction arm with 700 mm flexible hose (incl. table console). Can be equipped with valve.

Suction arm 3046:

Short extraction arm with 700 mm flexible hose part. Ball joint makes the arm easy and flexible to mount anywhere.



3013



3015



3046

Filter concept

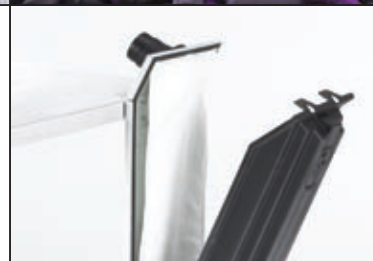
The filter systems are well-thought through, taking into account the smallest of details. Every stage of the process from the capture of polluted air, dwell time in the gas filter, to disposal of the used filters, is linked together in a carefully considered sequence. This gives the filters and the complete filter systems the highest performance and quality. They are unique on the market as they have a verified separation for both gases and particles. As it is important to eliminate the gas molecules in the process air, and not only the particles, the filters also have a deep bed with gas filter media consisting of activated carbon and a chemisorbant.

Everything interacts in a filter system. An important part is the ratio between the suction capacity and the dwell time in the gas filter. The air speed through the filter is adapted for optimal contact time and elimination of gases. If the air speed through the filter is too fast the gas molecules will not be eliminated and the gas will pass through the filter and out in the work area again.

The filters are integrated in one unit to keep the filter system clean inside, to avoid leakage and to still keep the particles captured when changing filter. The external prefilter is also a sealed system consisting of a filter bag.

Filtronic AB has environmental thinking throughout the whole process. The filter systems are made of high quality parts to ensure a long lifetime and are manufactured with environmentally friendly plastic and have a long lifetime. This saves the environment as also freight for replacement material is minimized. The used filters can be incinerated for energy if they have not been used for hazardous substances e.g. heavy metals.

All this together makes the filter systems suitable for cleanroom work. All MG-filter systems, except the MG100, have filters suitable for cleanroom applications.



MOBILE FILTER SYSTEMS

Technical data

	MG75	MG95	MG100	MG400
Max suction capacity with standard filter, m ³ /h (CFM)	70 (41,2)	100 (58,8)	100 (58,8)	400 (235)
Sound level dB(A) at 1 m	38-49	38-50	<52	<55
HEPA class micro filter - separation degree, DOP%	>99,97	>99,97	>99,97	>99,97
Gas filter - chemisorbtion - separation degree, %	>95	>95	>95	>95
Gas filter media, standard filter	UL class 1	UL class 1	UL class 1	UL class 1
Power, W	100	100	100	300
Voltage, V	100/250	100/250	100/250	115/230
Remote control	yes	yes	no	yes
Height, mm (in)	640 (25,2)	640 (25,2)	640 (25,2)	1016 (40)
Width, mm (in)	465 (18,3)	465 (18,3)	460 (18,1)	796 (31,3)
Depth, mm (in)	220 (8,7)	220 (8,7)	210 (8,3)	402 (15,9)
Weight, kg (lb)	15 (33)	18 (40)	15 (33)	68 (150)
Warranty, except for filters, years	2	2	2	2
Process air 0-50 °C (32-122 °F)				

Filtronic AB is striving to create a better workbench environment by developing and producing particle and gas filter systems of very high quality. The filter systems are easy to use and install, have a low noise level and a guaranteed function. Read more about us and our products at www.filtronic.se.



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