



OPERATING MANUAL

MG100S Filter system

FOR BETTER WORKBENCH ENVIRONMENT



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10. Warranty

General conditions according to ORGALIME S 2000.

Filtronic AB guarantees the product for manufacturing failures for a time period of two (2) years on filter units and accessories, consumptions not enclosed. The time is measured from date of invoice.

Only use genuine Filtronic AB consumables and spare parts in order to ensure reliable function and to maintain the unit's warranty. Repairs must be performed by personnel trained by Filtronic AB.

The information given is not binding and does not free the user from his or her responsibility to check the equipment before using it.

Filtronic AB reserves the right to introduce technical changes in the course of product development.

Always contact the supplier before returning a product.
The invoice has to be shown at the time of the complaint.

7. Technical data MG100S

Width x height x depth	460 x 610 x 210 mm
Weight	15 kg
Sound level at 1 meter	54 dB(A)
Voltage	240 V, 50 Hz
Effect	100 watt
Glass tube fuse	2 x 6,3 AT, 250 V
Maximum suction capacity	100 m ³ /h
Micro filter - Separation degree, DOP	>99,97 %
Gas filter - Separation degree	>95 %
Filter monitoring system	Yes
Warranty (excl. filter)	2 years
ESD approval, SP Dno	230-05-0189
EC-guidelines	73/23, 89/336, 89/392, 91/368, 92/31, 93/44, 93/68
RoHS	Yes from 01.07.2006

8. Article number

Filter system MG100S	100-1000-ESD
Micro/Gas filter	100-2000-ESD
Micro/Gas filter, for solvents like MEK	100-2003-ESD
Micro/Gas filter, epoxy	100-2005-ESD
Micro/Gas filter, ammonia	100-2006-ESD
Micro/Gas filter, carbon dioxide	100-2007-ESD
Mounting device	780-3001-ESD
Quick-connection hose L=1000 mm	700-3040-ESD
Quick-connection hose L=2000 mm	700-3041-ESD
Remote control with cable	700-3057

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1. Introduction

MG100S is a mobile filter unit for cleaning of both particles and gases. The unit are used for filtration of process air from soldering, gluing, cleaning, printing processes etcetera.

2. Content

- 1 Hose connection
- 2 Main filter
- 3 End cap
- 4 Power intake with fuse and circuit breaker
- A Connection details:
Power cord x 1
Quick-connection x 2
End cap x 1
- B Control panel



3. Safety instructions

The unit must not be exposed to temperatures exceeding 50° C, open flames or condensated solvents.

Switch off the filter unit when changing filter.

4. Put into operation

The best possible gas filtration will be achieved if:

- Process air temperature in the gas filter < 38 °C
- Relative humidity < 60 %
- Gas molecules > 30 g / mol (filtration better with larger molecules)
- Boiling temperature of gas molecules > 0 °C



NOTE! The unit may dust some from the main filter after transportation. Make sure the starting of the unit is made in an appropriate room.

Place the filter system on the floor or hang it on the workbench with mounting device, art no 780-3001-ESD. Connect the power cord and switch the circuit breaker (4).

The suction capacity can be adjusted in three steps by pressing the reset button at the control panel repeatedly.

5. Troubleshooting



Do not modify the filter unit. Repairs must be performed by personnel trained by Filtronic AB.

- If the filter unit is out of order, please check:
 - the electricity supply is connected in a correct way.
 - the fuse is whole.

- If alarm sounds when starting and red indicator flashes:
Recommended filter lifetime is exceeded. Indicates exchange of main filter. Restore the alarm with the reset button on the control panel and plan for filter exchange. See "Exchange of main filter" under headline 6 "Maintenance and service".

- If alarm sounds when starting and red indicator is shining:
Suction capacity is low. Restore the alarm with the reset button on the control panel and switch off the filter unit. Check nozzles and tubes, clean if necessary. If the alarm comes back when starting, the filter is used and must be changed. See "Exchange of main filter" under headline 6 "Maintenance and service". If no measure is taken, the filter unit stops after five minutes to protect from overheating.

Normal lifetime for a main filter within the electronic industry is 1500 hours. The main filter should be changed at least once a year to guarantee the separation degree on gases.

6. Maintenance and service

To guarantee a satisfactory function, clean the nozzle, extraction arm and connection hose regularly.

Exchange of main filter:

- Switch off the filter unit (4).
- Loosen the top (3) with the four knobs on the short sides of the unit. Lift the top straight up.
- Pull the main filter straight up.
- Assemble a new filter, the text upwards. Make sure that the inlet to the fan fits to the connection in the bottom of the filter.
- **NOTE!** The new filter has to be marked with the date of change (5).
- Put the top back.

When changing the main filter, the filter time is set to zero by keeping the reset button pressed and turning the switch on at the same time.

NOTE! The reset button must be pressed until the red light-emitting diode acknowledge the order.

