



MG140

Filter systems

FOR A BETTER WORKBENCH ENVIRONMENT



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Version 1



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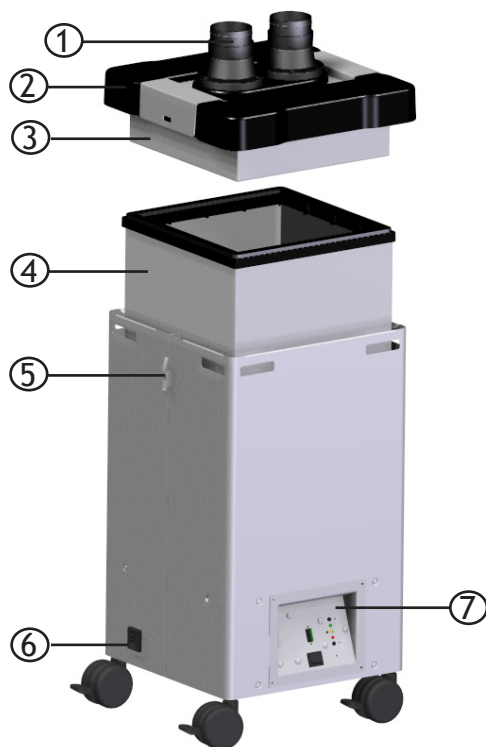
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1. Introduction

MG140 is a mobile filter system that cleans the air from hazardous particles and gases. Suitable applications include soldering, gluing, cleaning, printing processes etcetera.

2. Content

1. Hose connection
2. Lid
3. Pre filter
4. Main filter
5. Lock
6. Power intake with fuse
7. Control panel



9. Warranty

General conditions according to ORGALIME S 2000.

Filtronic 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 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.

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

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

7. Technical data MG140

Height x width x depth	680 x 340 x 340 mm
Weight	18 kg
Sound level at 1 meter	50 dB(A)
Voltage	100/230V
Effect	100 watt
Glass tube fuse	2 x 6,3 AT, 250 V
Maximum suction capacity	100 m ³ /h
Blower capacity	140 m ³ /h
Micro filter - Separation degree, MPPS	>99,95 %
Gas filter - Separation degree	>95 %
Filter monitoring system	Yes
Warranty (excl. filter)	2 years
ESD approval, SP Dno	230-05-0189
CE-guidelines	73/23, 89/336, 89/392, 91/368, 92/31, 93/44, 93/68
RoHS	Yes

8. Article number

Filter system MG140	145-1000-ESD
Micro/Gas filter, Standard	145-2000-ESD
Micro/Gas filter, Cleanroom	145-2002-ESD
Micro/Gas filter, MEK	145-2003-ESD
Micro/Gas filter, Solvents/VOC	145-2012-ESD

Accessories

Remote control with cable	700-3057
Connection hose, 1 m	700-3040-ESD

Control panel

8. On/off
9. Push button "Increase"
10. Led indicator low airflow
11. Led indicator - filter time exceeded
12. Led indicator - operation
13. Push button "Decrease"



3. Safety instruction

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

Connect the extraction arm och power cord. Switch on the filter unit (4).

When delivered the filter monitoring is programmed for normal load of the filter, 1 500 h, this can be changed with a remote control (700-3057).

5. Troubleshooting



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

- If the filter unit is out of order, please check that:
 - the electricity supply is connected in a correct way.
 - the fuse 6,3 AT is whole.

- If yellow indicator (7) flashes:

Recommended filter lifetime is exceeded.

See "Exchange of main filter" under headline 6 "Maintenance and service".

- If red indicator (6) shines and alarm is heard:

Inferior suction capacity.

Restore the alarm by push the "button-increase" (9) on the control panel or press push the "button-increase" (14) on the remote control and switch off the filter unit. Check that extraction arm or nozzle not are covered. Clean if necessary. If the alarm remains, change the main filter. See "Exchange of main filter" under headline 6 "Maintenance and service".

If the alarm not is taken care of, the filter unit will stop within five minutes to protect against overheating.

The main filter should be changed at least once a year to guarantee the separation degree on gases.

6. Maintenance and service

Exchange of pre filter:

Change the pre filter when the alarm indicates.

1. Switch off the circuit breaker.
2. Open the locks and remove the lid.
3. Remove the pre filter
4. Mount a new pre filter.
5. Put the lid and the lock back.
Note! Make sure that the pre filter bag goes into the main filter and is not caught between the lid and the gasket of the main filter.

If alarm comes back when starting, the main filter is consumed and needs to be exchanged, see "Exchange of main filter below".

Exchange of main filter:

1. Switch off the circuit breaker.
2. Open the locks and remove the lid.
3. Remove the main filter.
4. **Note!** Mark the new main filter with the date of change.
5. Mount the new main filter.
6. Put the lid and the locks back.

Note! Make sure that the pre filter bag goes into the main filter and is not caught between the lid and the gasket of the main filter.



When a new main filter is mounted, the filter monitoring needs to be set to zero.

1. Switch off the circuit breaker.
2. Switch on the power at the **same time** as the buttons (9) and (13) are pressed down. A ready signal sounds and the LED indicators die down.
3. Release the buttons, wait five seconds, switch off the circuit breaker.
4. Wait five seconds, switch on the circuit breaker and set desired capacity.

