



## OPERATING INSTRUCTIONS

# MG200

Filter system

FOR A BETTER WORKBENCH ENVIRONMENT



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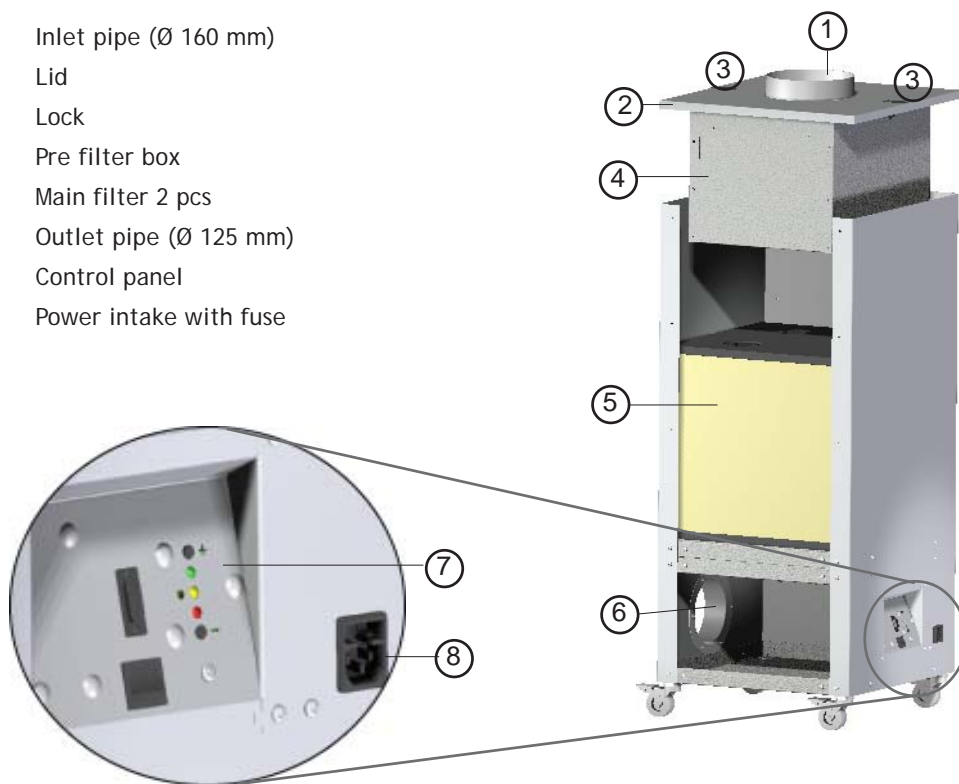
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## 1. Introduction

MG200 is a mobile filter unit for elimination of particles and gases in polluted process air from soldering, gluing, cleaning, laser, printing processes etc.

## 2. Content

1. Inlet pipe (Ø 160 mm)
2. Lid
3. Lock
4. Pre filter box
5. Main filter 2 pcs
6. Outlet pipe (Ø 125 mm)
7. Control panel
8. Power intake with fuse



## 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.

## 8. Article number

Filter system MG200	200-1000-ESD
Mikro/Gas filter (2 pcs)	200-2000-ESD
Mikro/Gas filter, cleanroom (2 pcs)	200-2002-ESD
Mikro/Gas filter, MEK (2 pcs)	200-2003-ESD
Mikro/Gas filter, ammonia (2 pcs)	200-2006-ESD
Mikro/Gas filter, Solvents/VOC (2 pcs)	200-2012-ESD

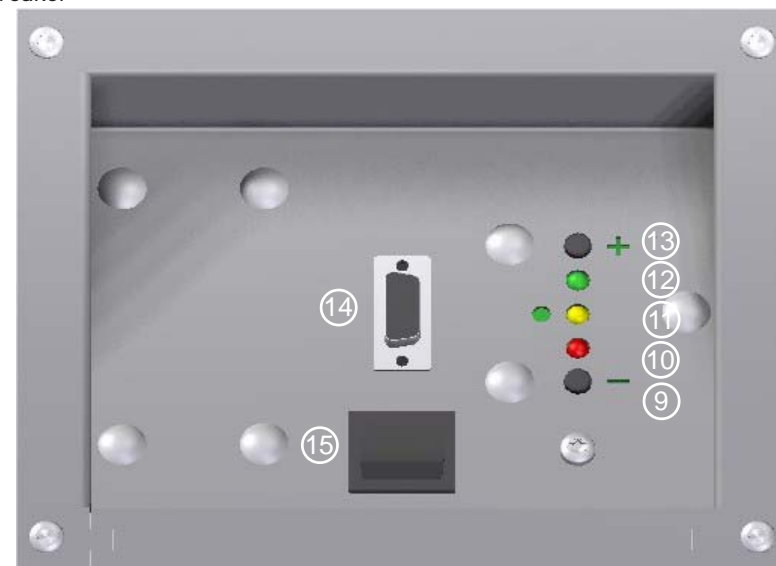
Pre filter 200-4000

Remote control with cable 700-3057

Remote control (battery) IR 700-3058

## Control panel

9. Push button - decrease
10. LED indicator - low airflow
11. LED indicator - filter time exceeded
12. LED indicator - operation
13. Push button - increase
14. Intake for remote control
15. Circuit breaker



## Remote control:

16. Push button - start/stop
17. Push button - filter monitoring
18. Push button - decrease
19. Push button - increase



### 3. Safety instruction

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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

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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 is 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 upstart of the unit is made in an appropriate room.

Connect the suction hose or subrion tube at the inlet pipe (1). Connect the power cord (8). Connect the remote control (14). Switch on the filter unit (15) and thereafter the remote control on the push button (16).

When delivered the filter monitoring is programmed for normal load of the filter (step 3). If you want to change the program, press the button for filter monitoring (17).

Step	Indication	Hours	Application example
1		500	Heavy smoke formation, gluing
2		1000	
3		1500	Inspection, repair (set by delivery)
4		2000	
5		2500	
6		3000	

### 7. Technical data MG200

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Width, mm (in)	400 (15,7)
Height, (in)	1016 (40)
Depth, mm (in)	402 (15,8)
Weight, kg (lb)	43 kg (94,8)
Sound level, dB(A) at 1 m	<55
Voltage, V	115 or 230
Effect, W	300
Glas tube fuse	2 x 6,3 AT, 250 V
Maximum suction capacity, m <sup>3</sup> /h (CFM)	200 (117,5)
Blower capacity, m <sup>3</sup> /h, (CFM)	310 (182)
Micro filter - Separation degree, MPPS %	> 99,95
Gas filter - Separation degree %	> 95
Filter monitoring system	Yes
Warranty, years (excl. filter)	2

When a new main filter is mounted, the filter monitoring needs to be set to zero. This can be done in two different ways:

Via the control panel:

1. Switch of the circuit breaker (15).
2. Switch on the circuit breaker (15) at the **same time** as the buttons (9) and (13) are pressed down. A ready signal sounds and the LED indicators die down.



Via the remote control:

1. Switch off the circuit breaker on the filter unit (15).
2. Switch on the circuit breaker on the filter unit (15) at the **same time** as the push buttons (18) and (19) are pressed down. A ready signal sounds and the LED indicators die down.



## 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:
  - the power cord is connected in a correct way.
  - the fuse 6,3 AT is intact.

- If yellow indicator (11) flashes:

**Recommended filter lifetime of main filter is exceeded.**

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

- If red indicator (10) lightes and the alarm is heard:

**Inferior suction capacity.**

Switch off the filter unit. Check if the pre filter, the extraction arm or the nozzle are clogged up. Clean the extraction arm and nozzle and change pre filter if necessary. See "Exchange of prefilter" under headline 6 "Maintenance and service".

If the alarm remains, change the main filter. See "Exchange of main filter" under headline 6 "Maintenance and service".

If the alarm is ignored, 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:

1. Switch off the circuit breaker (15).
2. Unlock the lid and remove it (2).
3. Remove the pre filter carefully (20).
4. Mount the new pre filter.
5. Replace the lid and lock (2).



### Exchange of main filter:

For optimal filter lifetime and filter economy always change pre filter when changing main filter.

1. Switch of the circuit breaker (15).
2. Unlock the lid and remove it (2).
3. Remove the pre filter carefully (20).
4. Loosen the plastic knob (21) and lift up the pre filter box (4).
5. **NOTE!** Mark the new filters with the date of change (22).
6. Exchange the two main filters (5).
7. Replace the pre filter box (4) and mount the plastic knob (21).
8. Mount the new pre filter (20).
9. Replace the lid and lock (2).
10. Set the filter monitoring to zero, see instruction at page 8.

