



OPERATING MANUAL

BT100H

BT100V

Filter systems

FOR BETTER WORKBENCH ENVIRONMENT



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Version 2
20.12.2007



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1. Introduction

BT100 is a fume extraction system for one work station. With integrated prefilter, the BT100 is designed for applications with heavy fumes and a large amount of particles, such as lead-free soldering, micro welding and laser processes.

BT100 is available both as a table mounted model BT100V, and floor based model BT100H.

2. Content

- 1 Connection tube
- 2 Plastic cover
- 3 Control panel
- 4 Main filter
- 5 Bottom plate
- 6 Power supply unit with cord
- 7 Clamps (only BT100V)



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 return a product.
The invoice has to be shown at the time of the complaint.

7. Technical data BT100

Width x height x depth	BT100H: 300 x 350 x 610 mm BT100V: 300 x 790 x 300 mm
Weight	BT100H: 8 kg BT100V: 9 kg
Sound level at 1 meter	55 dB(A)
Voltage	240 V, 50 Hz
Effect	100 watt
Maximum suction capacity	100 m ³ /h
Micro filter - Separation degree, DOP	>99,97 %
Activated carbon-gas filter	Yes
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 01.07.2007

8. Article number

Filter system BT100H	550-1200
Filter system BT100V	500-1100
Filter system BT100H-kit (BT100H, connection hose, extraction arm 3046 and nozzle Alfa)	550-8111
Filter system BT100V-kit (BT100V, extraction arm 0F07 and nozzle Alfa)	500-8121
Replacement filter	500-2100
Prefilter (5-pcs)	500-4000

If the filtersystem is bought as a kit, the following items are added in the package:

- A *BT100H-kit*:
Connection hose with quick-connection
Extraction arm 3046
Nozzle Alfa



- B *BT100V-kit*:
Extraction arm 0F07
Nozzle Alfa



3. Safety instruction

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 > 40 g / mol (filtration better with larger molecules)
- Boiling temperature of gas molecules > 0 °C

Connect the power supply unit (6) to the connection at the control panel (3). Switch on the circuit breaker.

Hang up the BT100V unit at the workbench with the clamps (7). Thread the clamps through the rectangular holes in the holding sheet and fasten them at the table edge. The width of span is 5-75 mm.

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 that:

- the power supply is connected in a correct way.
- the electrical connections under the plastic cover are in order.
- the filters are mounted in the correct way and that there is no leakage.
- the main filter does not press against the fan by gently loosening the screws beneath the plastic cover.

If red indicator (6) shines:

Inferior suction capacity. 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", headline 6 "Maintenance and service".

Normal lifetime for a main filter within the electronic industry is 1500 hours.

6. Maintenance and service

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

Exchange of main filter:

- 1 Disconnect the power supply unit.
- 2 Loosen the plastic cover (2) and take it away.
- 3 Loosen the prefilter bag by turning it. Take it away.
- 4 Loosen the hose from the pressure switch and unscrew the three big screws.
- 5 Move the whole middle plate from the used main filter to the new main filter.
- 6 Remove the used main filter.
- 7 Place the new main filter on the bottom plate (4). Make sure that the screw holes on the filter is placed exactly in front of the screw nuts.
- 8 Thread the hose from the main filter through the middle plate and put the plate in its place.
- 9 Screw in the three big screws and connect the hose to the pressure switch.
- 10 Test run the unit to make sure that the main filter is correctly placed and that the fan not is leaning towards the filter.
- 11 Finally mount the prefilter bag and the plastic cover.