



Filter Systems

OPERATING MANUAL

FT12, FT12-PF Filter systems

勝特力材料 886-3-5753170
勝特力电子(上海) 86-21-34970699
勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

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Filter Systems

FILTRONIC

APEX TOOL GROUP AB
Hissgatan 2, Box 2284, 531 02 LIDKÖPING
Tel: +46 510 208 10, Fax: +46 510 201 40
e-mail: office@filtronic.se
www.filtronic.se

Version 12



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1. Introduction

FT filter system - fume extraction powered by compressed air. High separation degree of both particles and gases in different processes. Suitable applications are soldering and gluing.

2. Content

1. Top filter
2. Pump house
3. Main filter
4. Base plate
5. Connection nipple for suction hose
6. Spring clips
7. Hose for compressed air
8. Airflow regulator
9. Prefilter disc (only FT12)
10. Prefilter cassette (only FT12-PF)



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9. Final inspection

<input type="checkbox"/>	Art.no	112-0000-ESD	FT12
<input type="checkbox"/>	Art.no	112-5000-ESD	FT12-PF

Air consumption at 5.5 bar litre/min 15

Suction capacity on FE-iron litre/min 31

Underpressure manometer bar 0,16

Underpressure manometer bar 0,50

Serial number _____

Tester: _____

Date: _____

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7. Article number

Filter system FT12	112-0000-ESD
Filter system FT12-PF, with pre filter cassette	112-5000-ESD
Rebuilding kit, main filter with pre filter cassette	212-5002-ESD
Top filter	210-0323-ESD
Top filter (model 93)	210-0310
Main filter FT12	212-0012-ESD
Main filter FT12-PF incl. pre filter cassette	212-5001-ESD
Filter discs, 10 pcs	210-0309
Filter discs for heavy soldering, pink, 10 pcs	210-0313
Prefilter cassette FT12-PF, 3 pcs	212-5000-ESD

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

3. Put into operation

The FT filter systems are to be connected to the local compressed air system or a compressor. The units are supplied with a 1500 mm hose with a fast connector for an outside threading of R 1/8.

The FT units require clean and dry compressed air of 3.5-7 bar.

The compressed air connector of the FT units is combined with a capacity regulator. With the regulator the suction capacity of the FT-units can be regulated. The compressed air hose is in both ends supplied with fast connectors and can easily be disconnected. **NOTE! This must only be done when the compressed air is disconnected.**

When more than one soldering iron is connected, each soldering iron requires the same length and dimension of the hose to get the optimum flow in the soldering iron nozzles.

At applications with a lot of particles the FT12 unit can be upgraded into a FT12-PF. The rebuilding kit includes a main filter with a interchangeable pre filter cassette and longer spring clips.

4. 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 compressed air is connected in a correct way.
- hoses and nozzles not are clogged up.
- the pre filter is mounted in a correct way.

5. Maintenance and service

To ensure a faultless function, clean the suction nozzles of the iron and the connection nipples with a cleaning brush as a daily routine. The suction hose also has to be cleaned regularly or replaced. The resin leftovers in the hose can be dissolved with pure alcohol and the leftovers can then be blown out with compressed air.



WARNING! Before cleaning the hoses and the nozzles with alcohol and compressed air, the suction hose must be disconnected from the unit.

If the suction capacity of the FT filter system is insufficient, even after adjustment of the airflow, the filters have to be checked. The filter disc can be replaced several times before the main filter needs to be replaced. By continuous soldering the main filter should be replaced every sixth months.

Exchange of main filter:

1. Snap off the spring clips.
2. Lift up the pump house.
3. Remove the main filter.
4. Change the filter disc, in-layed in the base plate.
5. When changing the FT12-PF main filter, put the enclosed gasket into the base plate, (see picture).
6. Mount a new main filter.
7. Mark the new main filter with current date.
8. Replace the pump house.
9. Replace the spring clips.



Renewal of top filter will be necessary as soon as a compressed air smell is perceptible.

Recommended Cleaning Schedule at 8 hours daily production:

- | | |
|-------------------|--|
| Every day: | Clean the nozzle of the soldering iron and clean the connection nipples of the unit. |
| Every second day: | Clean the suction hose and check the filter disc. |
| Every week: | Replace the filter disc and check the suction capacity after having cleaned the unit. Check the pre-filter cassette. |
| Every month: | Replace the pre-filter cassette. |
| Every 6 months: | Replace the main filter. |
| Every 12 months: | Replace the top filter. |

6. Technical data

	FT12	FT12-PF
Max connected irons	2	2
Height, mm/inch	200/7.9	255/10.1
Diameter, mm/inch	120/4.7	120/4.7
Weight, kg/lb	1.5/3.3	1.5/3.3
Noise level, db(A) 1 m/3 ft	37	37
Air consumption, l/min	13	13
Air consumption, SCFH	27	27
Air consumption free airflow, NL/min	12-40	12-40
Air consumption free airflow, SCFH	24-84	24-84
Suction capacity w. max connected irons, l/min	20-50	20-50
Suction capacity w. max connected irons, SCFH	42-105	42-105
Working pressure, bar	3.5-7	3.5-7
Working pressure, psi	50-100	50-100
Warranty (except filters), years	2	2
Micro filter - tested separation degree	>99.95 % MPPS	
Chemisorbant gas filter, separation degree	>99 %	
IVL report No:	L93/92	
ESD approval, SP Dnr:	230-05-0189	
RoHS	Yes	