BOFA™

A Donaldson Company

A WORLD LEADER IN FUME EXTRACTION TECHNOLOGY

Inline Filter 1000

USER MANUAL

Contents

Overview

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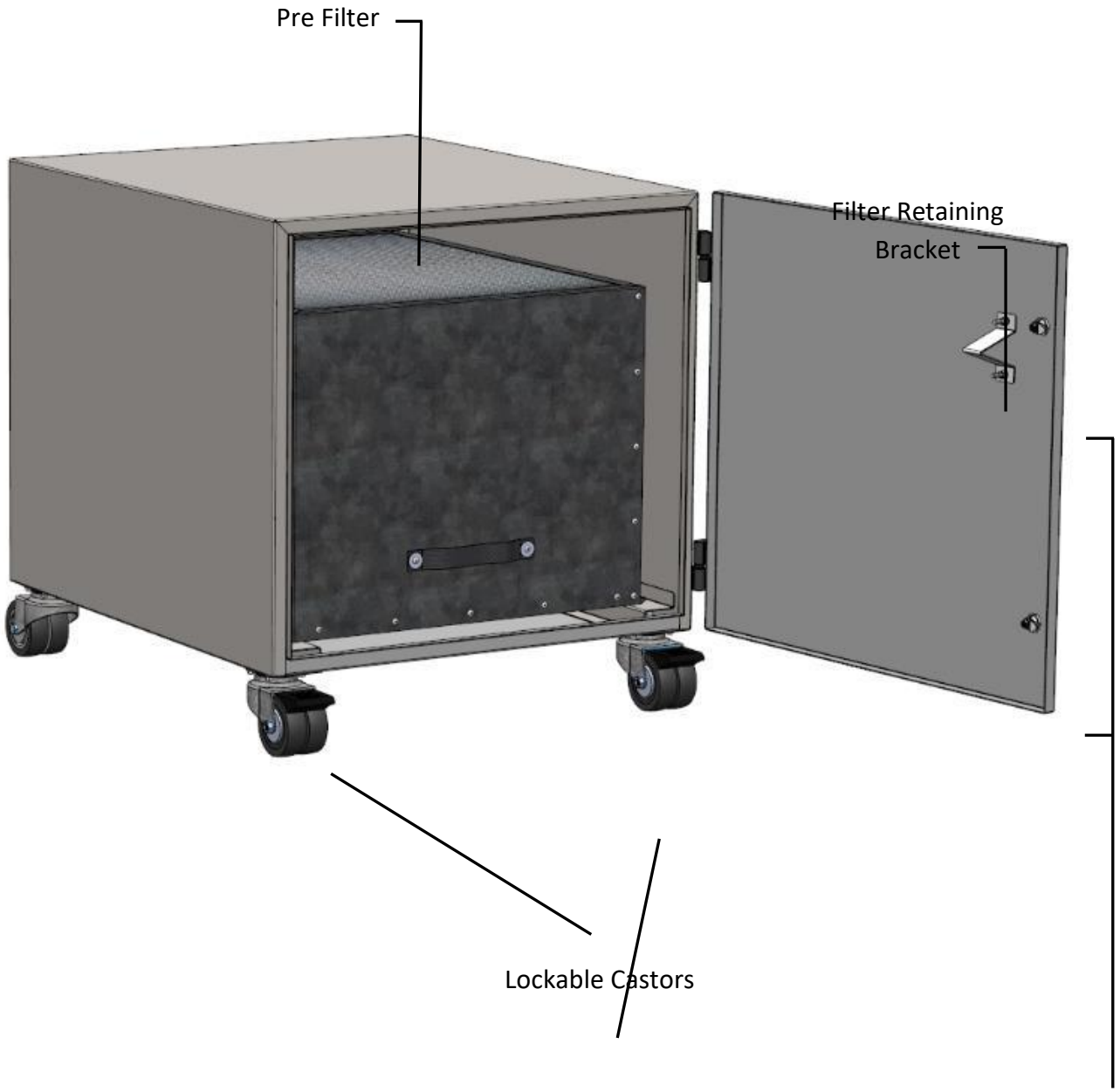


Overview

Door Latches

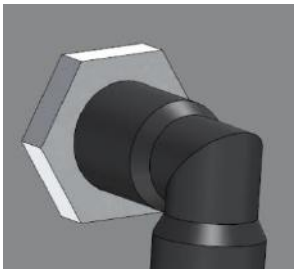
Filter Cond

(Used whe
ILFs are

Cap Installed

Air inlet (from laser process)

Air Outlet (to BOFA extraction unit)



Safety Instructions

2 01

Important safety notes
Concerning symbols used on the extraction unit and referred to within this manual.

 Danger

Refers to an immediately impending danger. If the danger is not avoided, it could result in death or severe (crippling) injury. Please consult the manual when this symbol is displayed.

 Warning

Refers to a possibly dangerous situation. If not avoided it could result in death or severe injury. Please consult the manual when this symbol is displayed.

 Caution

Refers to a possibly harmful situation. If not avoided, damage could be caused to the product or something in its environment.

 Important (Refer to manual)

Refers to handling tip and other particularly useful information. This does not signify a dangerous or harmful situation. Refer to manual when this symbol is displayed.

Warning
When working with the pump/motor housing open, Live 230/115 volt mains components are accessible. Ensure that the rules and regulations for work on live components are always observed.

Important
To reduce the risk of fire, electric shock or injury:

1. Always isolate the system from the mains power supply before removing the pump/motor access panel.
2. Use only as described in this manual.
3. Connect the system to a properly grounded outlet.

Dangers to eyes, breathing and skin
Once used, the filter within the ILF 1000 system may contain a mixture of particulates, some of which may be sub-micron size. When the used filters are moved it may agitate some of this particulate, which could get into the breathing zone and eyes of the operative. Additionally, depending on the materials being used, the particulate may be an irritant to the skin.

This unit should not be used on processes with sparks of flammable materials or with explosive dusts and gases, without implementation of additional precautions.

Caution: When changing used filters always wear a mask, safety shoes, goggles and gloves.

BOFA Technical Service
If problems arises with your ILF 1000 unit please contact us:

- Visit our website at www.bofa.co.uk for on-line help.
- Or contact the helpline on **+44 (0) 1202 699 444**, Mon-Fri, 9am-5pm.
  Email: Technical@bofa.co.uk

Safety Instructions

2 02

Warning and Information labels
The following listing details labels used on your ILF 1000 extraction unit.

Goggles, Gloves & Mask Label

Location: Front face of filter.
Meaning: Goggles, Gloves and Masks should be worn while handling used filters.

Warning Label

Location: Front Door
Meaning: Power should be isolated before the panel with this label attached is opened/ removed.

PLEASE NOTE: If the equipment is used in a manner not specified by the manufacturer, the protection provided by the equipment maybe compromised.

Fire Risk Warning

In the very rare event that a burning ember or spark is drawn into the fume extraction unit, it may be possible that the filters will ignite.

Whilst any resultant fire would typically be retained within the fume extraction unit, the damage to the extractor could be significant. It is therefore essential to minimise the possibility of this occurring by undertaking an appropriate Risk assessment to determine:-

a). Whether additional fire protection equipment should be installed.

b). Appropriate maintenance procedures to prevent the risk of build-up of debris which could potentially combust.

This unit should not be used on processes where sparks could occur, with explosive dusts and gases, or with particulates which can be pyrophoric (can spontaneously ignite), without implementation of additional precautions

It is essential that nozzles or other extraction/ fume capture devices and hoses/pipework are cleaned regularly to prevent the build-up of potentially ignitable debris

Caution
Under no circumstances should the exhaust outlet/s be covered as this will restrict the airflow and cause overheating.

Before installation

3 01

Packaging Removal & Unit Placement

Before installation, check the extraction unit for damage. All packaging must be removed before the unit is operated. **Please read all instructions in this manual before using this extractor.**

1. Move the unit to the location where it is going to be installed and remove the outer packaging. **This unit should be installed in a well-ventilated area.**
Ensure that 500 mm space is available around any vented panels on the extractor to ensure adequate airflow.

2. Check the filter is located in its correct position before replacing the lid and securing the clips

Caution
Do not block or cover the airflow and motor cooling ports on the unit, as this severely restricts airflow and may cause damage to the unit.

Installation & Operation

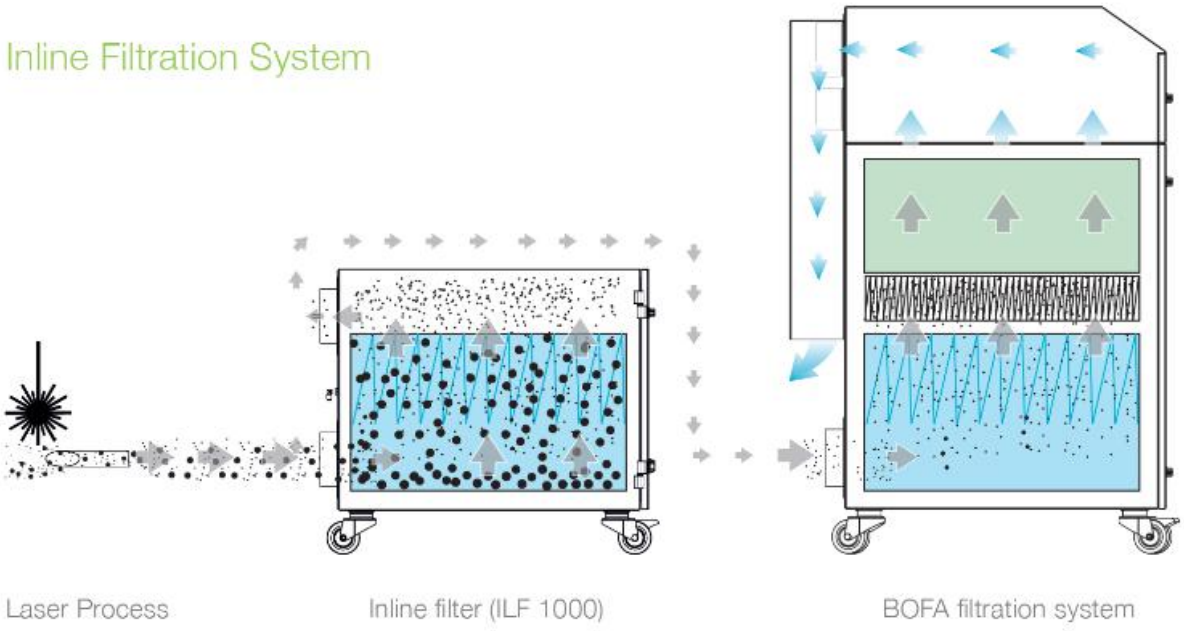
4 01

The Inline Filtration system

The BOFA inline pre filter 1000 has been designed specifically for applications that generate high amounts of fine dust or particulate.

The ILF 1000 is positioned alongside the main BOFA fume filtration system to increase the overall filter capacity and extend the life of the main filters.

The DeepPleat DUO pre-filter incorporates a large drop-out chamber within the filter, having a volume area of 15ltrs. Above the drop-out chamber but still within the housing there is a sealed 200mm deep pleat layer of F8 media giving a surface area in excess of 30 square metres.



Maintenance

5 01

Maintenance UK

It is a legal requirement, under regulation 9 of the COSHH regulations that all local exhaust ventilation systems are thoroughly examined and tested at least once every 14 months (typically carried out annually). The approved code of practice recommends that a visual check should be carried out at least once a week.

COSHH requires the annual inspection and testing to be carried out by a competent person and specifies that documentation results are recorded in a log.

Contact the seller for more information about inspection and certification.

Maintenance General

User maintenance is limited to cleaning the unit and filter replacement, only the manufacturers trained maintenance technicians are authorised to carry out component testing and replacement. Unauthorised work or the use of unauthorised replacement filters may result in a potentially dangerous situation and/or damage to the extractor unit and will invalidate the manufacturer's warranty.

Cleaning the unit

The stainless steel units should be cleaned with a proprietary stainless steel cleaner, in accordance with the manufacturer's user instructions.

Filter Information

A log of filter changes should be maintained by the user. The filters require attention when the display shows the configuration shown on the next page or when the extractor no longer removes fume efficiently.

It is recommended that a spare set of filters are kept on site to avoid prolonged unit unavailability. Part numbers for replacement filters can be found on the filters fitted in your system.

To prevent overheating, units should not be run with a blocked filter condition, or with dust obstruction of Inlets / Outlets.

Fire Risk Warning

In the very rare event that a burning ember or spark is drawn into the fume extraction unit, it may be possible that the filters will ignite.

Whilst any resultant fire would typically be retained within the fume extraction unit, the damage to the extractor could be significant.

It is therefore essential to minimise the possibility of this occurring by undertaking an appropriate Risk assessment to determine:-

a). Whether additional fire protection equipment should be installed.

b). Appropriate maintenance procedures to prevent the risk of build-up of debris which could potentially combust.

This unit should not be used on processes where sparks could occur, with explosive dusts and gases, or with particulates which can be pyrophoric (can spontaneously ignite), without implementation of additional precautions

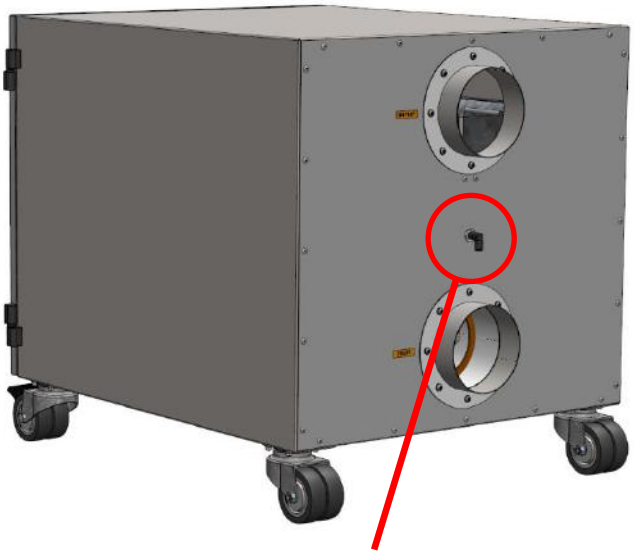
It is essential that nozzles or other extraction/ fume capture devices and hoses/pipework are cleaned regularly to prevent the build-up of potentially ignitable debris

Maintenance

5 02

Filter Replacement

The sensor tube must be connected correctly in order for the BOFA unit to monitor the filter condition correctly. See section 4.01 for instructions.



To remove and replace the pre filter follow the procedure detailed below.

1. Isolate the electrical supply to the main extraction unit.
2. Undo the latches on the front of the unit and open the front door.
3. Slide the pre filter out of the unit. Once removed it is recommend that the used filter is bagged and sealed.
4. Slide the new filter into the unit.
5. Close the door and secure the latches.

Note: The filter MUST be fitted when the extractor is in use.

Replacement Parts

6 01

Consumable Spares

The ILF 1000 contains a pre filter. This should be replaced when instructed to do so by the ILF system (see section 6 for replacing the filters)

To maintain performance it is important that the filters are replaced with identical BOFA filters. To re-order please refer to the Filter number printed on the filter installed in your extraction unit.

Maintenance Protocol

Users can record changes in filter change intervals on the table below.

ILF 1000	
Pre Filter	
Date	Engineer

Filter disposal

The combined filter is manufactured from non-toxic materials. Filters are not re-usable, cleaning used filters is not recommended. The method of disposal of the used filters depends on the material deposited on them.

For your guidance

Deposit	EWC Listing*	Comment
Non Hazardous	15 02 03	Can be disposed of as non-hazardous waste.
Hazardous	15 02 02M	The type of hazard needs to be identified and the associated risks defined. The thresholds for these risks can then be compared with the amount of material in the filters to see if they fall into the hazardous category, if so, the filters will need to be disposed of in line with the local/national regulations.

*European Waste Catalogue

System Specifications

7 01

Unit: Inline Filter 1000 (ILF 1000)

Weight: 25kg (55lbs)
Motor: Centrifugal Fan
Exhaust outlet: 125mm (5.0")

Size:

	Metric (mm)	Imperial (inches)
Height	647	25.5
Depth	690	27.2
Width	600	23.6

Filters:

Filter Type	Construction	Efficiency
Pre Filter	Maxi Pleat Construction with Webbing Spacers	F8 (95% @ 0.9 microns)

Environmental operating range:

Temperature: +5°C to + 40°C
Humidity: Max 80% RH up to 31°C
Max 50% RH at 40°C

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