

# FUMEX®

## Manual

### OF 1000 / 2000 / 4000 / 6000 / 8000



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## **1.0 General Information**

OF 1000 - 8000 is a mechanical oil mist filter with a degree of separation of 95% of the oil mist and 99% of the oil smoke with a particle size of 0.3 microns.

The device is equipped with filter cartridges from glass fiber felt and aluminium separators as well as a HEPA filter (not washable).

The complete unit consists of:

- Housings from powder coated sheet steel
- Filter cartridge
- HEPA filters
- Fan
- Pressure gauges
- Starting device with overcurrent protection

The drainage pipe placement is optional left or right.

The separated oil or the emulsion can be fed back in the machine or collected in a container.

OF 1000 - 8000 is a modular system. An efficient central unit can be built up by adding more modules.

## **1.1 Safety Regulations**

When transporting, the device must be standing straight up.

Always turn off the current supply before maintaining service.

### **NOTE**

This product is developed in accordance with the requirements defined in the EEC guidelines. In order to correspond to these quality requirements, executed installations, repair and maintenance work may only be performed by specialists with use of original spare parts. Consult with your local authorized Fumex dealer for spare parts.

## **1.2 Range of Application**

Separation of oil - and emulsion mist

### 1.3 Operation

#### Fan

**HEPA-Filter:** Degree of separation over 99%. Not washable, but easily changeable.

Recommended to be changed at a pressure of 800Pa

**Filter 2:** Glas fiber filters with aluminium separators.

Recommended to be changed at a pressure of 500Pa

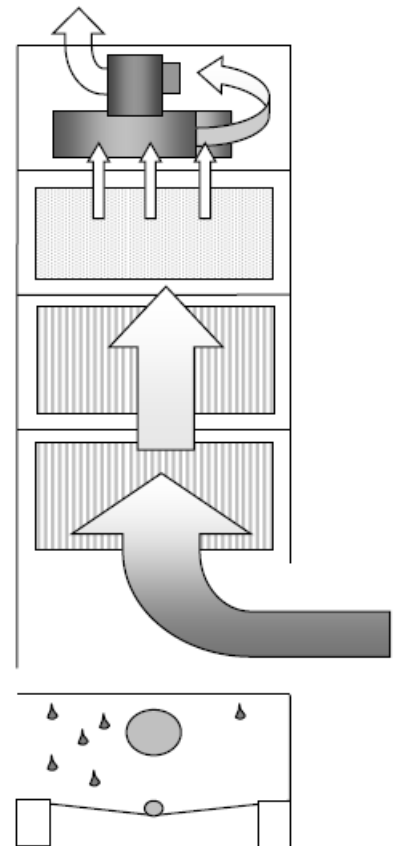
**Filter 1:** Glas fiber filters with aluminium separators.

Recommended to be changed at a pressure of 500Pa

**Intake:** Alternatively right or left side.

**Drainage:** Alternatively right or left side.

Clean air



### 1.4 Installation

OF-Filter is suitable only for the application intended, in dry areas.

Cleaned air is blown out upward. The exhaust may not be covered.

### 1.5 Assembly

Select the installation with regard to piping as short as possible  
Make sure there is enough space to perform service and maintenance.

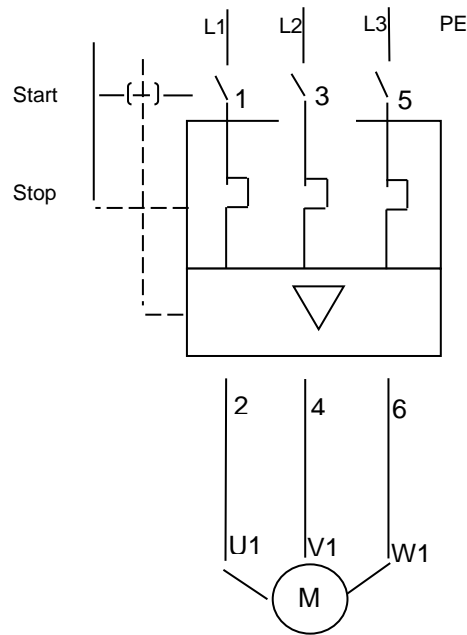
Pipe connection can be made either on the right- or the left side.

When connecting, use only oil-resistant material in the hoses and connections.

Drainage can be to the left- or right side. Only one connection per unit. It is important to prevent air being sucked through the drain line. This is solved by a water trap (Siphon type)

## 1.6 Electrical

Electrical connection must be performed by licensed electricians only.



## 1.7 Start-Up

Make sure the filter cartridges are correctly installed.  
Packing and handles should be pointing upward.

Start the fan and make sure it goes in the right direction.  
Pressure gauge on the HEPA filter should be 100Pa.

## 1.8 Technical Data

Dimensions OF 1000:    Length:                    640 mm  
                                 Width:                        735 mm  
                                 Height:                      1770 mm (without fan 1270 mm)

Dimensions OF 2000:    Length:                    640 mm  
                                 Width:                        735 mm  
                                 Height:                      2110 mm (without fan 1610 mm)

Dimensions OF 4000:    Length:                    800 mm  
                                 Width:                        900 mm  
                                 Height:                      2125 mm (without fan 1585 mm)

Dimensions OF 6000:    Length:                    2120 mm  
                                 Width:                        735 mm  
                                 Height:                      2135 mm (without fan 1635 mm)

Dimensions OF 8000:    Length:                    1700 mm  
                                 Width:                        900 mm  
                                 Height:                      2135 mm (without fan 1635 mm)

Inlet OF 1000:            Ø 160 mm  
Inlet OF 2000:            Ø 200 mm  
Inlet OF 4000:            Ø 315 mm  
Inlet OF 6000:            Ø 400 mm  
Inlet OF 8000:            Ø 400 mm

Filter Area OF 1000:    Combined pre-filter:        8 m<sup>2</sup>  
                                 HEPA-Filter:                22 m<sup>2</sup>

Filter Area OF 2000:    Pre-filter 1+2:              10+8 m<sup>2</sup>  
                                 HEPA-Filter:                22 m<sup>2</sup>

Filter Area OF 4000:    Pre-filter 1+2:              21+15 m<sup>2</sup>  
                                 HEPA-Filter:                44 m<sup>2</sup>

Filter Area OF 6000:    Pre-filter 1+2:              30+24 m<sup>2</sup>  
                                 HEPA-Filter:                66 m<sup>2</sup>

Filter Area OF 8000:    Pre-filter 1+2:              42+30 m<sup>2</sup>  
                                 HEPA-Filter:                88 m<sup>2</sup>

## 1.9 Fan Data

<u>Operating Voltage/phase:</u>	<u>400Volt / 3~</u>
Capacity OF 1000:	0,75 kW
Capacity OF 2000:	2,2 kW
Capacity OF 4000:	4 kW
Capacity OF 6000:	3 x 2,2 kW
Capacity OF 8000:	2 x 4 kW

Rotations:	2.900rpm
Frequency:	50-60Hz
Safety Class:	IP 54

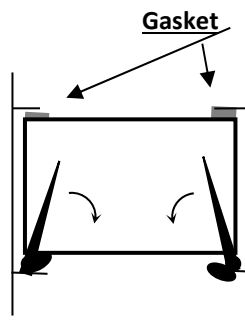
## 2.0 Maintenance

### 2.1 General

### 2.2 Filter Changes

Switch the device off and disconnect the electricity. Open the door and remove the filter by pushing the handles down

NOTE When removing make sure cartridge is not damaged.



When replacing the filter cartridge ensure that the seals are located above the filter

## **2.3 Replacement Filters**

### **OF 1000**

OEU5/9-8  
OH13-22

### **OF 4000**

OEU5-21  
OEU9-15  
OH13-44

### **OF 8000**

2 x OEU5-21  
2 x OEU9-15  
2 x OH13-44

### **OF 2000**

OEU5-10  
OEU5/9-8  
OH13-22

### **OF 6000**

3 x OEU5-10  
3 x OEU5/9-8  
3 x OH13-22