

**LF 70**



**FUMEX<sup>®</sup>**

# LF70, mobile filter for extraction of gases, fumes and particles



To meet requirements for the evacuation of airborne pollutants in e.g. laboratories, hospitals, pharmaceutical, electronics industry, laser branding, etc, the LF70 offers:

**Efficient particle filter** for fumes and other airborne pollutants.

**Gas filter** allowing long dwell time which results in high adsorption of gases, pollutants and odours.

**Low noise level** for a pleasant work environment.

**High flexibility** due to a wide range of filters. There are 3 regular kinds of particle filters and 4 regular kinds of gas filters available.

**Great mobility** – the filter can simply be moved between different premises. E.g. placed under a workbench.

**Certified** – according to EMC, LVD and CE Medical Directive.

**Variable speed control** for easy adjustment of the air flow according to requirements.

**Technical support** for the optimum way of verifying contact time and life of the gas filter. FUMEX has designed a software program for these calculations.

## Display and control

The simple and user-friendly control unit with a clear display shows what kind of pollutant the filter is dimensioned for. A cycle counter shows where the variable speed control is on the scale.

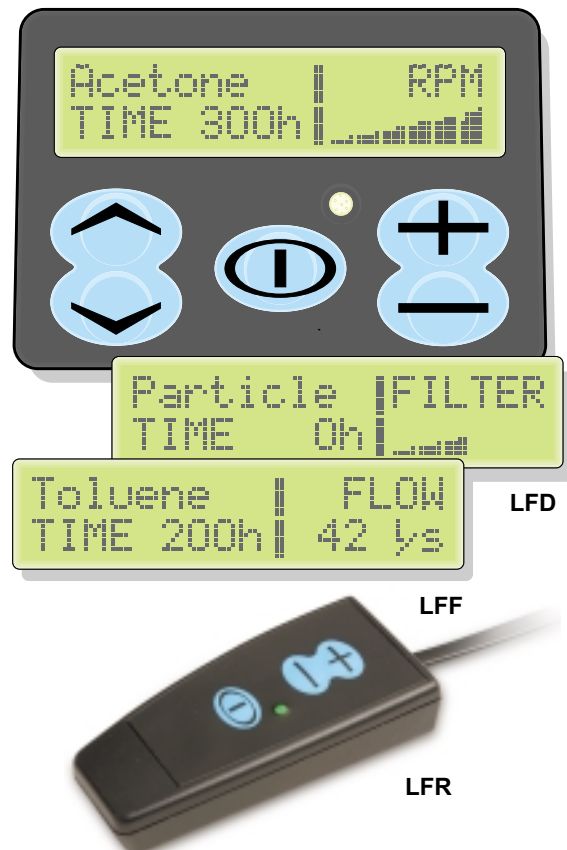
**For particle extraction** the filter will start at 0 hours and show the number of hours the filter has been running. This counter will be reset to 0 when you change the filters. A **differential pressure manometer (LFD)** is available as an accessory. It will indicate when the filter is full.

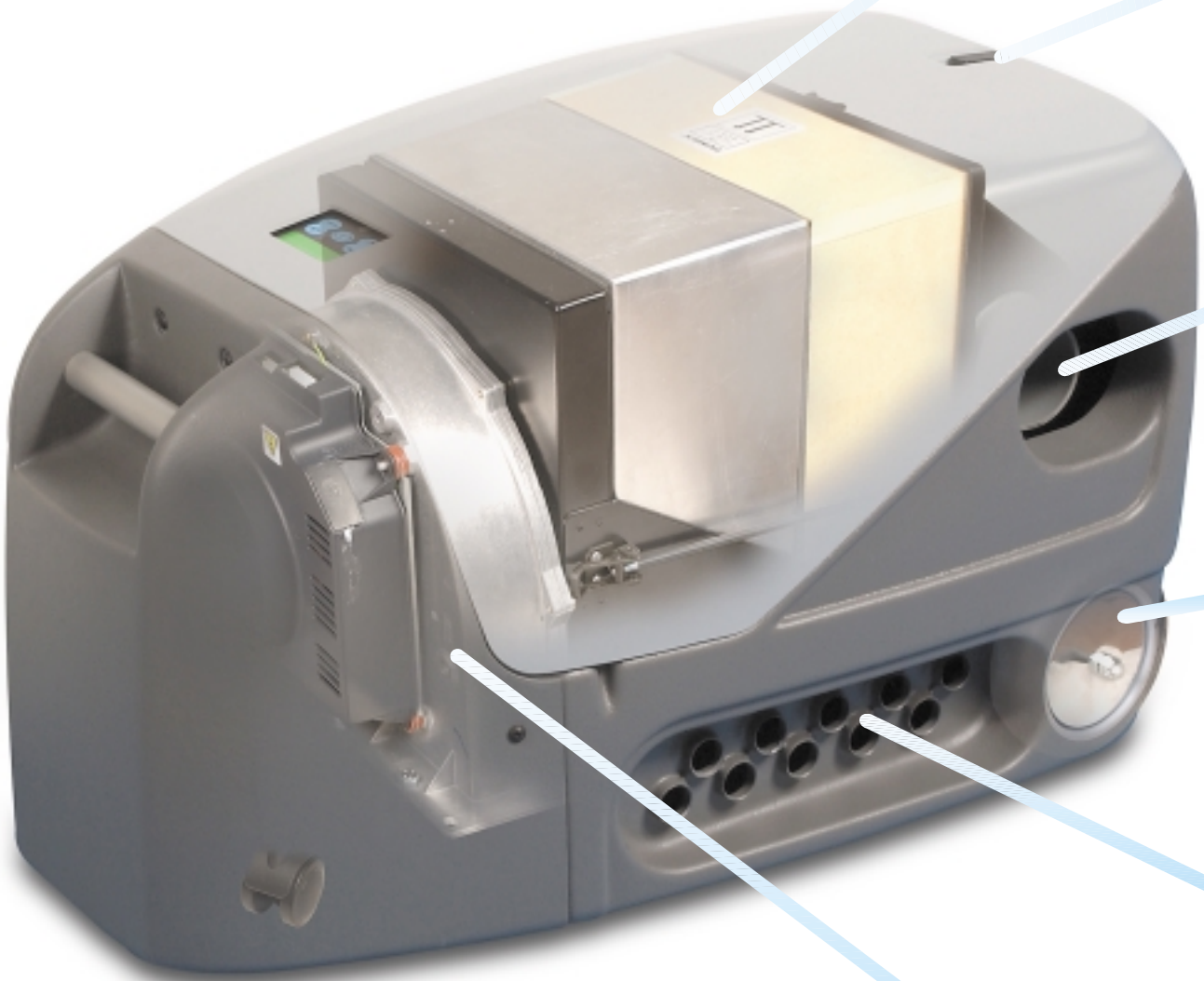
**For gas extraction** the filter will start at the preset number of hours, depending on gas and flow. This value will be reset when you change the filters.

To get an exact air flow through the filter, a **flow meter (LFF)** is available as an accessory. It will always show the current air flow, irrespective of the pressure drop in the extraction source.

**The remote control (LFR)**, in cfm, is an accessory for starting/stopping the fan and adjusting the air flow.

**The outlet connection (LFO)** is an accessory used for connecting a separate outlet hose.





## Efficient filtration

### Simple change of filters

The oversized lid with a single latch simplifies filter changes. As an option, the filter may also be changed without exposing the polluted side.

### Easy installation

The hose connection is always close to the extraction source, far away from the feet of the user. The possibility to connect hoses on both sides of the filter means that shorter hoses may be used, resulting in a higher flow. Double connections may also be used.

### Easy to move

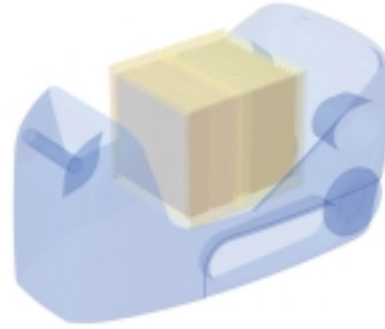
Low weight and wheels that run on ball bearings makes transportation very simple.

### Low noise level

No other filter on the market has such a low noise level, due to an optimal exhaust chamber and a specially designed noise-suppressing material.

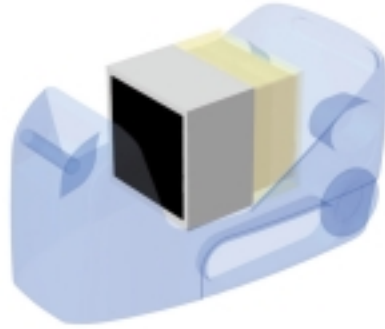
### Adapted fan

Non-sparking aluminum fan with the motor placed outside the air stream and suitable for continuous operation.



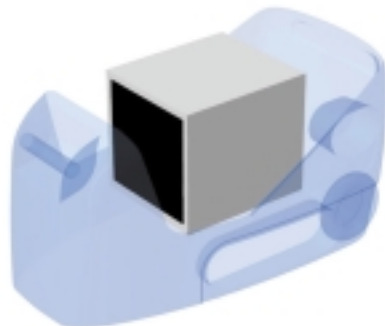
### Particles, LF 70P

Three-stage filter that separates 99.97% of all particles  $>0.3\mu\text{m}$ .  
E.g. grinding, fumes etc.



### Particles and gases, LF 70PG

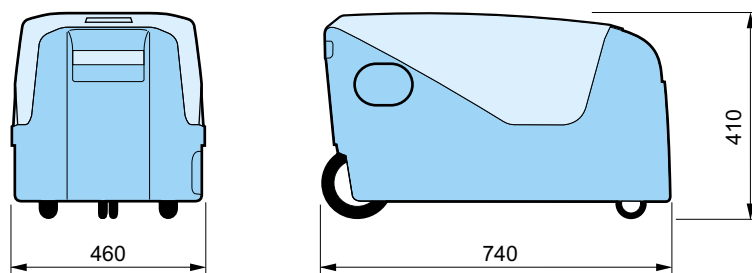
Particles are separated by the particle filter and the active carbon separates the gas in question. E.g. soldering fumes etc.



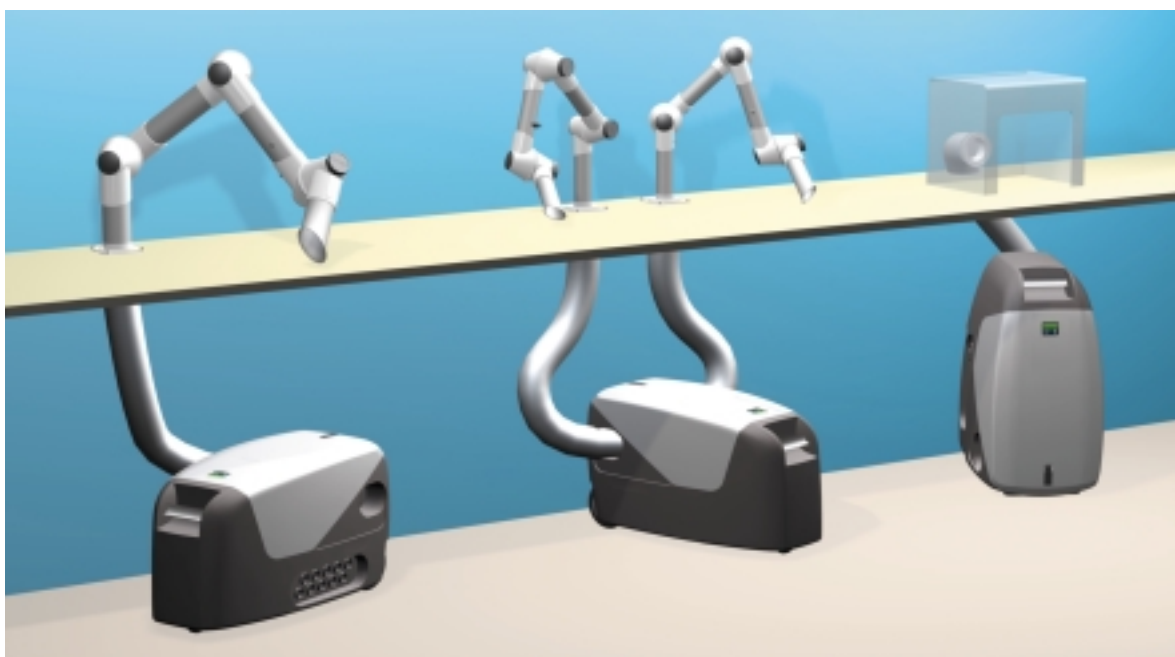
### Gases, LF 70G

The whole filter volume is used for active carbon for maximum gas adsorption. Different kinds of carbon may be selected depending on what gas is extracted. E.g. acetone, toluene etc.





## Fields of application



For laboratory work the filter unit may be used to connect one Ø75 mm extraction arm, that evacuates 42 l/s.

For a soldering application the filter may be used to connect two Ø50 mm extraction arms, that evacuate 2x21 l/s.

A plexiglass hood may be used to encase e.g. laboratory scales or other instrument. The filter unit will then evacuate up to 70 l/s.

## Particle filters

	Class	Filtration	Test method
<b>Pre filter</b>	G1	<60%	Ashrae
	G2	<65-80%	Ashrae
	<b>G3</b>	<80-90%	Ashrae
	G4	>90%	Ashrae
<b>Fine filter</b>	F5	50-60%	Atmospheric dust
	<b>F6</b>	61-80%	Atmospheric dust
	F7	81-90%	Atmospheric dust
	F8	91-95%	Atmospheric dust
	F9	>95%	Atmospheric dust
<b>HEPA-filter</b>	H10	95%	DOP 0.3 µm
	H11	99%	DOP 0.3 µm
	<b>H12</b>	99.97%	DOP 0.3 µm
	H13	99.99%	DOP 0.3 µm
	H14	99.999%	DOP 0.3 µm

Airflow	....	0-70 l/s
Motor	.....	315 W, 230 V~/ 50-60 Hz/ 2,15 A
Motor	.....	300 W, 110 V~/ 50-60 Hz/ 4 A
Weight	.....	25 Kg
Noise level	...	25 % 50 % 75 % 100 % rpm
		44 45 51 56 dB(a)

LF 70 is EMC-, LVD- and CE-certified according to the Medical Directive. Directives are 89/336/EEG, 92/31/EEG, 73/23/EEG och 93/68/EEG

### Particle filter

FP 70	.....	Pre filter/ G3
FH 70	.....	Fine and Hepa filter/ F6 and H12

### Gas filter

FC 70	.....	Carbon filter/ 8,5 l
FDC 70	.....	Deep carbon filter/ 16,3 l
FCC 70	.....	Chemical carbon filter/ 8,5 l
FDCC 70	.....	Deep chemical carbon filter/ 16,3 l