

# Solder fumes extraction systems

- Extremely quiet
- Favourable operating costs
- Efficient filter surfaces
- Low power consumption





# KLF – Filter systems for solder fumes

Solid and liquid phases react with each other during the soldering process creating smoke/fumes, gases and aerosols as air-polluting substances.

Extraction of harmful substances at the source is a basic requirement which is also specified in the Workplaces Ordinance § 3 (1), Appendix 3.6 Ventilation.

Arranging particle filters (e.g. suspended matter filter) before the gas separators (activated carbon) ensures that the gas separators do not become ineffective.



The Klepp solder fumes filters are ideal solutions for continuous and optimum extraction and filtering of the harmful substances. The contaminated air is acquired directly at the point of origin using practical capture elements (e.g. dia.50 suction arms).

The extracted harmful substances are transferred to the filter device using a hose system or a pipeline individually designed for your requirement.



The filtering for the Klepp KLF Series is performed in three stages –

- prefilter mat
- a suspended matter filter
- an activated carbon filter

The cleaned air can remain in the work area.

The replacement of the filters you can easily phase yourself. The activated carbon filter can be refilled time and time again.

Our control panel with full text display and a membrane keypad provide more user friendliness. An optic signal and text messages indicate the need for action and maintenance. The control panel also contains the operating hours counter, the speed regulation and the filter status display.

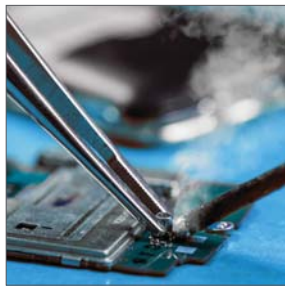
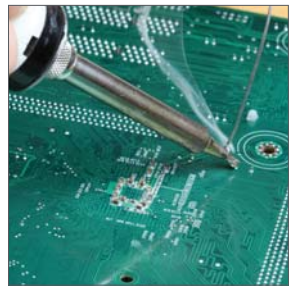


## The KLF filter systems for solder fumes in detail

- Case made of sheet steel in modular construction with maintenance door powder-coated on both sides  
strukturfarbe grau RAL 7035  
strukturfarbe blau RAL 5013
- Fan
- Soundproofed fan, filter section and air outlet box
- Triple filtering  
prefiltermat G4 in austauschbarer Rahmen  
suspended matter filter H13, optional H14, 99.95 % separation according to EN 1822  
activated carbon filter in austauschbarer Gehäuse



KLF 703



- Control panel speed regulation for KLF 703 to KLF 1003  
operating hours counter  
automatic filter monitoring
- KLF 703 to KLF 1003 with rollers  
KLF 1703 to KLF 4003 with adjustable feet

- optional extension for all devices with integration for remote on-off circuit monitoring
- from KLF 803 optional a automatic pressure difference dependent regulation

The solder fume extraction system from Klepp guarantees

- simple integration at the workplace
- flexible possible uses for practically every area of application.

All systems work in recirculation mode!

All filter systems are also available in electrically conductive versions.



KLF 1703



KLF 803

## Your benefits

- air power adjustable up to KLF 1003
- simple filter replacement
- short maintenance time
- low power consumption
- suitable for continuous operation
- maintenance-free motor (no carbon brushes)
- high filtering performance
- utilisation of the complete filter surface
- long filter service life
- individually replaceable filters
- deposit system for activated carbon cassette
- low operating costs

Please do not install the equipment outdoors!

A large selection of capture elements for optional bench, wall or ceiling installation guarantees maximum flexibility.

## Technical Data:

	KLF 703	KLF 703/4	KLF 803	KLF 1003	KLF 1703	KLF 2003	KLF 3003	KLF 4003
	mobile	mobile	mobile	mobile	stationary	stationary	stationary	stationary
Workstation	1 - 2	2 - 4	2 - 5	5 - 10	6 - 15	8 - 20	12 - 30	20-40
Regulation	controllable	controllable	controllable	controllable	not controllable	not controllable	not controllable	not controllable
Optional	SPS	SPS	SPS/DDS	SPS/DDS	SPS/DDS	SPS/DDS	SPS/DDS	SPS/DDS
Unimpeded air flow rate	240 m <sup>3</sup> /h	390 m <sup>3</sup> /h	390 m <sup>3</sup> /h	1000 m <sup>3</sup> /h	1700 m <sup>3</sup> /h	2100 m <sup>3</sup> /h	3550 m <sup>3</sup> /h	4000 m <sup>3</sup> /h
Real air flow rate	170 m <sup>3</sup> /h	320 m <sup>3</sup> /h	320 m <sup>3</sup> /h	700 m <sup>3</sup> /h	1200 m <sup>3</sup> /h	1500 m <sup>3</sup> /h	1825 m <sup>3</sup> /h	2500 m <sup>3</sup> /h
Motor	0,12 kW	0,24 kW	0,24 kW	0,75 kW	1,5 kW	2,2 kW	4,0 kW	4,0 kW
Voltage	230 V	230 V	230 V	230 V	230/400 V	230/400 V	230/400 V	230/400 V
Nominal current	0,5 A	1,0 A	1,0 A	3,6 A	3,5 A	4,8 A	8,3 A	14,3/8,3 A
Rated speed	5400 U/min.	8200 U/min.	8200 U/min.	5700 U/min.	2800 U/min.	2820 U/min.	2900 U/min.	2880 U/min.
Frequency	50 Hz	50 Hz	50 Hz	50 Hz	50 Hz	50 Hz	50 Hz	50 Hz
Total pressure difference	1350 Pa	4000 Pa	4000 Pa	2500 Pa	2600 Pa	2880 Pa	3400 Pa	4630 Pa
Sound pressure level	50 dB(A)	56 dB(A)	56 dB(A)	64 dB(A)	64 dB(A)	64 dB(A)	64 dB(A)	70 dB(A)
Filter class acc. to EN1822	H 13	H13	H13	H13	H13	H13	H13	H13
Filter material	fiber optic paper	fiber optic paper	fiber optic paper	fiber optic paper	fiber optic paper	fiber optic paper	fiber optic paper	fiber optic paper
Filter area	3 m <sup>2</sup>	3 m <sup>2</sup>	3 m <sup>2</sup>	5,9 m <sup>2</sup>	22,5 m <sup>2</sup>	22,5 m <sup>2</sup>	22,5 m <sup>2</sup>	22,5 m <sup>2</sup>
Separation efficiency	99,95%	99,95%	99,95%	99,95%	99,95%	99,95%	99,95%	99,95%
Suction connection	2 x 50 mm (back)	4 x 50 mm (back)	4 x 50 mm 1 x 100 mm (back)	125 mm (top)	160 mm (top)	160 mm (top)	160 mm (top)	250 mm (top)
Dimensions (mm)								
Width	340	340	400	500	660	660	660	950
Depth	430	430	500	650	885	885	885	1060
Height	600	600	755	915	1435	1435	1435	1550
Needed Area	440/640	440/640	450/1150	550/1250	665/1650	665/1650	665/1650	1000/2150

## Filter unit

for the models KLF 703, 803, 1003,  
1703, 2003, 3003, 4003

1. Prefilter mat F5, exchangeable
2. Suspended matter filter, filter class H13, exchangeable
3. Refillable activated carbon filter cassette, thus inexpensive activated carbon refilling



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