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 filters are replaced comfortably using the maintenance doors. 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
  structure white RAL 9010
  structure blue RAL 5013
- Fan
- Soundproofed fan, filter section and exhaust cabinet
- Triple filtering
  prefilter mat F5 in interchangeable frame
  suspended matter filter H13, 99.95 % separation according to EN 1822
  activated carbon filter in interchangeable case
- Control panel
  speed regulation for KLF 702 to KLF 1702
  operating hours counter
  automatic filter monitoring
- KLF 702 to KLF 1702 with rollers
  KLF 2002 to KLF 4002 with adjustable feet

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

The solder fume extraction system from Klepp guarantees

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

All filter systems are also available in electrically conductive versions.

Your benefits

- system tested according to DIN VDE 0701/0702 and BGV A 3
- simple filter replacement
- short maintenance time
- low power consumption
- suitable for continuous operation
- maintenance-free motor (no carbon brushes)
- extremely quiet, approx. 50 dB(A) – office sound level
- low approach flow rate at the filter
- high filtering performance
- utilisation of the complete filter surface
- long filter service life
- individually replaceable filters
- deposit system for activated carbon cassette
- documented functional and completeness check
- low operating costs

Technical Data:

KLF 401

stationary — 1 workplace

Real air flow rate	220 m³/h
Motor	0.075 kW
Voltage	230 V
Rated current	0.4 A
Rated speed	1750 U/min
Frequency	50 Hz
Total pressure difference	330 Pa
Sound pressure level	53 dB(A)
Protection class	44
Filter class acc. to EN 1822	H12
Filter material	Hepa/Act. carbon
Filter area	4.5 m²
Separation efficiency	99.5 %
Suction connection	80 mm (back)
Dimensions (W x D x H) (mm)	400 x 400 x 575

KLF 702

mobile — 1 to 2 workplaces

Unimpeded air flow rate	240 m³/h
Real air flow rate	170 m³/h
Motor	0.12 kW
Voltage	230 V
Frequency	50 Hz
Total pressure difference	1350 Pa
Sound pressure level	50 dB(A)
Protection class	44
Filter class acc. to EN 1822	H13
Filter material	Fiber optic paper
Filter area	2.4 m²
Separation efficiency	99.95 %
Suction connections	2 x 50 mm (back)
Dimensions (W x D x H) (mm)	340 x 430 x 600

KLF 802

mobile — 2 to 4 workplaces

Unimpeded air flow rate	390 m³/h
Real air flow rate	281 m³/h
Motor	0.24 kW
Voltage	230 V
Rated current	2.0 A
Rated speed	8200 U/min
Frequency	50 Hz
Total pressure difference	4000 Pa
Sound pressure level	58 dB(A)
Protection class	IP 55
Filter class acc. to EN 1822	H13
Filter material	Fiber optic paper
Filter area	2.4 m²
Separation efficiency	99.95 %
Suction connections	1 x 100 mm (back) or 4 x 50 mm (back)
Dimensions (W x D x H) (mm)	400 x 500 x 760

KLF 1002

mobile — up to 6 workplaces

Unimpeded air flow rate	900 m³/h
Real air flow rate	600 m³/h
Motor	0.55 kW
Voltage	230 V
Rated current	3.65 A
Rated speed	2790 U/min
Frequency	50 Hz
Total pressure difference	1650 Pa
Sound pressure level	59 dB(A)
Protection class	IP 55
Filter class acc. to EN 1822	H13
Filter material	Fiber optic paper
Filter area	5.9 m²
Separation efficiency	99.95 %
Suction connection	125 mm (top)
Dimensions (W x D x H) (mm)	500 x 650 x 920

KLF 1702

mobile — up to 12 workplaces

Unimpeded air flow rate	1700 m³/h
Real air flow rate	1200 m³/h
Motor	1.5 kW
Voltage	230/400 V
Rated current	6.1/3.5 A
Rated speed	2820 U/min
Frequency	50 Hz
Total pressure difference	2600 Pa
Sound pressure level	60 dB(A)
Protection class	IP 55
Filter class acc. to EN 1822	H13
Filter material	Fiber optic paper
Filter area	22.5 m²
Separation efficiency	99.95 %
Suction connection	160 mm (top)
Dimensions (W x D x H) (mm)	650 x 865 x 1160

KLF 2002

stationary — up to 15 workplaces

Unimpeded air flow rate	2100 m³/h
Real air flow rate	1500 m³/h
Motor	2.2 kW
Voltage	230/400 V
Rated current	8.3/4.8 A
Rated speed	2800 U/min
Frequency	50 Hz
Total pressure difference	2880 Pa
Sound pressure level	61 dB(A)
Protection class	IP 55
Filter class acc. to EN 1822	H13
Filter material	Fiber optic paper
Filter area	22.5 m²
Separation efficiency	99.95 %
Suction connection	160 mm (top)
Dimensions (W x D x H) (mm)	650 x 865 x 1160

KLF 3002

stationary — up to 26 workplaces

Unimpeded air flow rate	3350 m³/h
Real air flow rate	2400 m³/h
Motor	4.0 kW
Voltage	230/400 V
Rated current	14.4/8.3 A
Rated speed	2900 U/min
Frequency	50 Hz
Total pressure difference	3400 Pa
Sound pressure level	60 dB(A)
Protection class	IP 55
Filter class acc. to EN 1822	H13
Filter material	Fiber optic paper
Filter area	22.5 m²
Separation efficiency	99.95 %
Suction connection	200 mm (top)
Dimensions (W x D x H) (mm)	800 x 1060 x 1550

KLF 4002

stationary — up to 36 workplaces

Unimpeded air flow rate	3550 m³/h
Real air flow rate	2560 m³/h
Motor	1.5 kW
Voltage	400 V
Rated current	3.25 A
Rated speed	2820 U/min
Frequency	50 Hz
Total pressure difference	2470 Pa
Sound pressure level	58 dB(A)
Protection class	IP 55
Filter class acc. to EN 1822	H13
Filter material	Fiber optic paper
Filter area	22.5 m²
Separation efficiency	99.95 %
Suction connection	250 mm (top)
Dimensions (W x D x H) (mm)	800 x 1060 x 1550

Filter unit

for the models KLF 702, 802, 1002, 1702, 2002, 3002, 4002

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

KLEPP

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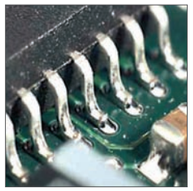
Technical changes reserved. Status: October 2009. The latest information on all devices can be found on the Internet.



Solder fumes extraction systems

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

KLEPP