The air purifiers

# LMD 501





**TEKA Absaug- und Entsorgungstechnologie GmbH** · Millenkamp 9 · 48653 Coesfeld
Tel.: +49 2541 / 84841-0 · Fax: +49 2541 / 84841-72 · Mail: info@teka.eu · Web: www.teka.eu

**Product No.: 94001**

## Description

# LMD 501

The **TEKA LMD 501** is a mobile filter unit for extracting fumes and fine dust. It is designed for almost all marking and engraving lasers, is suitable for several soldering workstations in electronics manufacturing and for continuous operation. The LMD 501 works with two turbines and has the highest suction power in the LMD series.

### At a glance

- **Three-stage filtration:** M5 pre-filter, HEPA H13 main filter, activated carbon
- **Operation:** TouchControl with infinitely variable speed control
- **Interface:** SUB-D9 with inputs and outputs for external devices
- **Housing:** sheet steel, powder-coated inside and out

### Your benefits

- **For laser fumes and odours:** The activated carbon stage has a very large filter surface and absorbs gases and odours produced during laser processing.
- **Tight filter seating:** A built-in filter lifting device ensures that the filters are seated tightly. The pre-filter retains coarser particles before the HEPA H13 filter cleans the air.
- **Connection to the laser system:** Via the SUB-D9 interface, the unit signals "filter full" and alarms. It can be started and stopped externally, and the suction power can also be controlled from outside.
- **Demand-based:** The infinitely variable speed control lets you adapt the suction power to the application. Both continuous-duty turbines are maintenance-free.
- **Filter monitoring:** The automatic filter monitoring shows when a change is due.

### Applications

Laser marking and laser engraving, soldering fume extraction at several soldering workstations, laboratories.

### Combinations and options

The LMD 501 can be combined with capture devices such as Optiflex extraction arms, Alsident® extraction arms available from TEKA and extraction cabinets, as well as with a particle pre-separator. An exhaust air spigot is available as an option. The unit is supplied ready to plug in.

The operating instructions are available in the Downloads tab. Our overview page shows more systems for laser fume extraction.

## Properties

| | |
|---|---|
| **Blower type:** | 2 x continuous-duty turbines, single-stage |
| **Control interface:** | SUB D9 |
| **Interface description:** | Pin 1&2=Start (potential-free bridging -> e.g. switch) Pin 3&4=Operation (potential-free) Pin 5&6=Fault (potential-free) Pin 7=Increase in tube power Pin 8=Reduce |
| **Main filter quantity:** | 1 |
| **Volumetric flow (m³/h):** | 500 |
| **max. pressure (Pa):** | 15,000 |
| **Engine power (kW):** | 2.4 |
| **Supply voltage (V):** | 230 |
| **Connection frequency (Hz):** | 50/60 |
| **Current consumption (A):** | 15.5 |



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## Properties

| | |
|---|---|
| **Filter control:** | TouchControl (IDEC) |
| **Vorfilter:** | ISO 16890 ePM10 > 50% (F5) |
| **main filter:** | Filter cartridge |
| **Filter class:** | DIN EN 1822 - H13 |
| **final filter:** | Activated carbon cartridge: 7 kg |
| **Separation efficiency (%):** | > 99.95 |
| **Ansaugstutzen (mm):** | 2 x NW 50 |
| **Sound level (dB(A)):** | 70 – in accordance with DIN EN ISO 3744 |
| **Weight (kg):** | 70 |
| **Width (mm):** | 365 |
| **Depth (mm):** | 768 |
| **Height (mm):** | 801 |
| **Colour:** | RAL 9010 |

## Accessories



Suction hose with two connectors
Product No.: 9631925



Suction hose with two rigid connectors
Product No.: 9631950



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## *Replacement parts*




High particulate filter size 610x305x150+2*6 mm
Product No.: 10035




Prefilter set M5, 572 x 268 x 20 mm
Product No.: 10056




Activated carbon filter
Product No.: 97052



Activated carbon pouring for cassette 305x610x100
Product No.: 100197501



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