Perfect protection from very fine dust.
Dust is a daily hazard. Your health requires reliable protection.

Very fine dusts conceal the greatest danger. Whether working with cobalt, nickel, beryllium or quartz, dental technicians without perfect extraction are living dangerously.

Substances, such as gypsum, gold and plastic also affect you and your employees’ health.

Limits are quickly exceeded. The specified limits of the health regulations are exceeded much more quickly than one would think.

MAK: The maximum workplace concentration of e.g. quartz is currently only 0.00015 g/m³ of room air. TRK: The industrial guide concentration of e.g. nickel currently permits only 0.0005 g/m³ of very fine dust and that of cobalt only 0.0001 g/m³ of room air. The MAK commission even recommends a more sensitive classification of these substances.

Concentrations above these limits can have fatal effects on the human body, for example poisoning, allergies and cancer.

The lungs are in danger. The lungs are particularly endangered by very fine dusts. Fine dust is only a fraction of the total respirable dust in the laboratory whose particles are smaller than 5 μm. The fineness easily enables it to reach the deepest respiratory tracts, the alveola region, where it can cause the very dangerous pneumoconiosis, as a result of constant tissue reaction.

You should therefore, completely protect yourself and your laboratory team. With KaVo SMARTair.

The new generation of dust extraction system is a result of over 20 years of experience in laboratory extraction. Experience the difference!

Integrated solution:
• KaVo SMARTair: including 2 filter bags Mat. No. 1.001.8194
• KaVo SMARTair plus: including 2 filter bags and 1 micro filter Mat. No. 1.001.8195

Flexible solution:
• KaVo SMARTair mobile: including 2 filter bags Mat. No. 1.001.8196
• KaVo SMARTair mobile plus: including 2 filter bags and 1 micro filter Mat. No. 1.001.8197

Efficiency and quality are now important factors for success in every dental laboratory. KaVo SMARTair sets completely new standards in extraction technology. Experience the cost-efficiency, flexibility and health protection from very fine dusts in a new dimension. In each case the two models provide a choice of use, the integrated drawer unit, or the portable, free-standing unit – flexibility and performance.

The plus models additionally offer:
• Automatic cut-out
• Automatic suction power adjustment
• 99.995% separation of very fine dusts
• Micro filter as standard.

Why wait any longer? KaVo SMARTair: Even more powerful suction, particularly quiet operation and protection of health!
KaVo SMARTair sets new standards.
Perfect extraction with triple filter.

Fascinating technology.
The outstanding plus models.

The plus models are the premium products of the new KaVo SMARTair generation. They offer added value through specific equipment as standard.

Unique: Dust separation of the finest type.

The triple filter concept with quick-change system is the best example of KaVo’s innovative power. The filter bag contains all coarse dusts. Particles smaller than 5 μm are retained by the micro filter, and the active carbon filter effectively absorbs all vapours. The result is 99.9995% dust separation. The filters, like the fan and the electronics, are components of a modular service concept, which permits independent replacement of the elements.

Automatic suction adjustment

The automatic adjustment of suction is a technical masterpiece of KaVo engineers. If the filter becomes full, an electronic sensor with patented volume flow rate measuring system is activated. If the suction power falls below 80% of the rated power, the automatic system automatically switches to the next suction level.

The advantages:
• Continuously high suction power
• Longer service life of the filter bags
• Automatic cut-out when the filter is full

The integrated solution:

The integrated solution is ideal for technical workplaces. The drawer concept offers maximum convenience for the technician.

The portable solution:

The mobile solution is used primarily in the functional area of the dental laboratory, where limited space prevents an integrated solution.

Automatic cut-out

Thanks to the automatic switch-on system, the suction motor runs only when suction is required and thus saves valuable energy, in contrast to central extraction systems.

Micro filter

The standard micro filter retains all particles smaller than 5 μm and thus ensures an extremely good value of 99.995% in the separation of very fine dusts.

Control of sensitivity of the automatic switch-on system

Filter bag status indicator

Switches for selecting the suction power in 4 steps

Switch with indicator
• Continuous operation
• Automatic operation

The outstanding plus models.

KaVo SMARTair sets new standards.

Perfect extraction with triple filter.
KaVo SMARTair.

More flexibility through practical accessories.

With the accessories of the KaVo SMARTair generation, tailored to laboratory requirements, you will gain the flexibility you need for long-term use. KaVo SMARTair is designed for incorporating into all KaVo or non-KaVo installations.

### Technical Data

- **Dimensions:**
  - W/H/D (drawer): 420 / 520 / 430 mm
  - W/H/D (portable): 421 / 270 / 430 mm

- **Weight:** 20 kg

- **Voltage ranges:**
  - 115 V 50-60 Hz
  - 230 V 50-60 Hz

- **Rated power consumption:**
  - max. 500 Watt

- **Voltage power:**
  - Level I: 18 l/s
  - Level II: 22 l/s
  - Level III: 25 l/s
  - Level IV: 31 l/s

- **Housing:** ABS (impact-resistant, corrosion-free)

- **Suction pressure:** 2000 mm water column

- **99.9% separation of fine dusts <5μm**

- **99.995% separation of very fine dusts <5μm**

- **Rated voltage:** 115/230 V; 50/60 Hz

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### Consumables

1. Filter bag (pack of 5) 0.658.2160
2. Micro filter 0.658.9802
3. Absorption filter (for plastic), optional 0.658.1861

### Accessories

1. MASTERspace® suction hood, front of bench 0.653.2010
2. MASTERspace® suction hood, on-bench 0.653.2020
3. Protection shield with holder 0.659.2610
4. ERGOSpace® suction hood 382, front of bench 0.659.3300
5. ERGOSpace® suction hood 384, on-bench 0.658.4600
6. Suction housing, on-bench [can be used with 384] 0.655.4091
7. Protection shield with holder 0.659.3360
8. Magnifying lens [for clamping to protection shield] 0.651.0230
9. Gold micro sieve 0.651.0241
10. Gold micro sieve 0.653.2432
11. Exhaust hood with telescopic arm 0.682.2720
12. Kit for installation on external tables 0.650.7481
13. K-CONTROL connecting cable 1.001.0798
14. Support frame 0.650.7031
15. Stainless steel waste drawer 20 0.650.2601
16. Stainless steel waste drawer 30 0.650.2591
17. Stainless steel waste drawer 50 0.650.1271

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### Health

- The SMARTair 3-filter system with filter bag, micro filter and active carbon filter ensures perfect health protection.
- The active carbon filter traps laboratory monomer vapours, which are hazardous to health.
- The plus models are the only single-workplace extraction systems worldwide to fulfil the stringent German BKA regulations, category of use C.
- Clearly quieter than the previous model.

### Cost-efficiency

- The right model for every suction requirement. You choose what you require and still remain flexible.
- The modular concept with filter, fan and electronics components makes servicing considerably easier and reduces the costs.
- Better degrees of filling of the filter bag through stronger suction power.

### Flexibility

- The automatic suction adjustment in the SMARTair plus models ensures perfect power for every application.
- Accessories tailored to laboratory requirements, permit the integration of KaVo SMARTair into a large number of laboratory benching programmes, in any external workplace and best of all in the KaVo MASTERspace® concept.
- The SMARTair portable models offer high flexibility in functional areas and where space is limited on the technician’s table.

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KaVo: Your specialist for single- and multi-workplace dust extraction.

You are absolutely right in deciding on the new KaVo SMARTair generation. KaVo SMARTair is convincing in every respect. Cost-efficiency, health and flexibility are added values, which will delight you.

The new KaVo SMARTair generation: change now!