

► The Air Sampling Heads **LKS 30** and **LKS100**



The powerful air sampling heads **LKS100** with a nominal flow of 100 l/min and **LKS 30** with a nominal flow of 30 l/min are available for sampling of cultivable particles on nutrient media in 90 mm standard Petri dishes. The air sampling heads **LKS 30** and **LKS100** are operated with the battery-powered sampling system **MBASS30**.

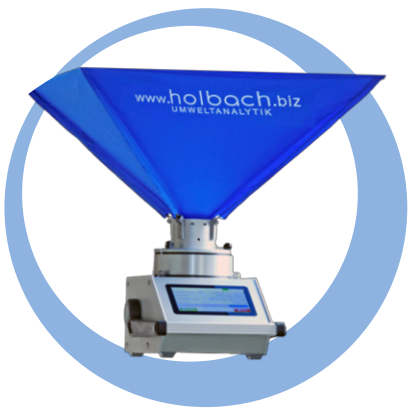
► Applications

- Examination of indoor microbiological contamination
- Hygiene checks of ventilation systems
- Examination of indoor air in production rooms and cleanrooms
- Air monitoring during the production of cytostatics



► Features

- The sampling heads are validated according to EN ISO 14698-1
- The culture medium fixation allows sampling in every operating position
- The hose connection at the sampling intake allows for sampling from cavities
- The sampling heads are autoclavable
- The high jet count (500 jets on the **LKS100**) reduces multiple occupancies with high microbial counts

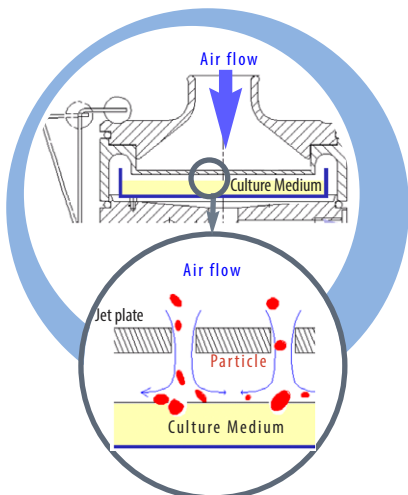


► Accessories

- Transverse adapter and inlet nozzles for isokinetic samplings at ventilation systems and vertical air outlets
- Air inlet funnel **LET40** for hygiene inspections at ceiling air outlets

► Functional Principle

The sampling air is drawn from top to bottom through the air sampler. A volume flow is thus evenly created above the jet plate in the top part. The air flow velocity is considerably increased within the jet area. Thereby, the airborne particles are accelerated towards the culture medium and impact the medium.



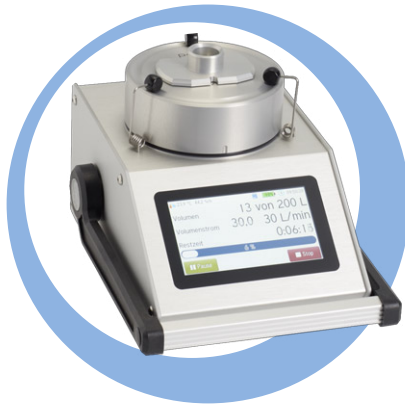
► Technical Data

Sampling head	LKS 30	LKS100
Nominal volume flow	30 l/min	100 l/min
Jet count	324	500
Cut-off value (d _{ae50})	0.9 µm	1.1 µm
Sample medium	standard Petri dish 83–95 mm x 15 mm (D x H)	
Sampling air inlet	extendable with hose (5/4 inch, 13.8 mm)	
Dimensions	110 mm x 70 mm (D x H)	
Weight	400 g	



The particle sampler **PS 30** to sample non-cultivable particles is described on the other side

➤ The Particle Sampling Head **PS 30**



The particle sampler **PS 30** detects the overall spore total (cultivable and non-cultivable) in the air. The particles are deposited onto adhesive coated microscope slides.

This sampling method does not need any cultivation time. The evaluation can be performed **immediately** after the sampling using a **light optical microscope**.

The particle sampling head **PS 30** is operated with the battery-powered sampling system **MBASS30**.

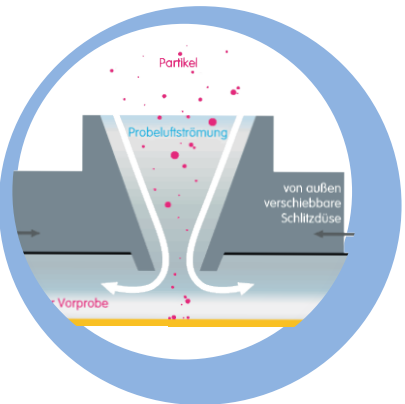
➤ Applications

- Examination of indoor microbiological contamination
- Control measurements performed after clean-up measures
- Qualitative examination of indoor air in production rooms and clean-rooms for particles
- Samplings according DIN ISO 16000-20



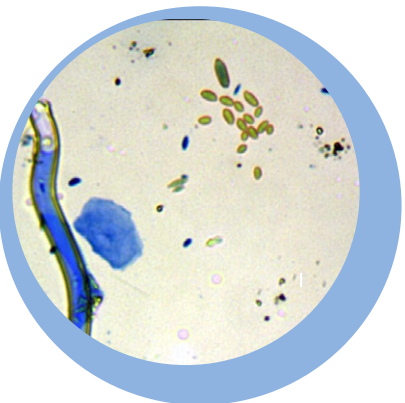
➤ Features

- No cultivation time – evaluation possible immediately after sampling
- Detection even of non-cultivable spores and particles
- Up to 3 samplings on one single adhesive slide
- No temperature and time restrictions for sample transport
- The hose connection at the sampling intake allows for sampling from cavities



➤ Functional Principle

The sampling air is drawn through a movable slot jet. The jet can be moved into three sampling positions. The considerably increased velocity of the air flow at the jet outlet accelerates the particles in the sample air towards the collecting layer of the slide, to which they remain adhered.



➤ Technical Data

Nominal volume flow	30 l/min
Jet dimensions	16 mm x 1.1 mm
Cut-off value (d_{ae50})	1.8 μ m
Sample medium	adhesive coated slide
Sample air inlet	extendable with hose (1 inch, 25.4 mm)
Dimensions	110 mm x 60 mm (D x H)
Weight	600 g

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