VKL 100

The VKL 100 series of dilution systems can reduce the concentration of aerosols by the dilution factor 1:100, also of very highly concentrated aerosols, in a defined and reliable way.

The Palas VKL, 100 dilution systems, are used in vertical operation for the particle size range up to 2 μm for applications in the clean room. Dilution factors of up to 1:100,000 are achieved by cascading several VKL systems.

Benefits

- The dilution systems from Palas® are characterized unambiguously. This is documented with a calibration certificate for each device
- The dilution steps deliver a temporally constant, representative dilution with the factors 10 and 100
- The dilution systems can be cascaded with the factors 100, 1,000, 10,000 and 100,000
- Low compressed air consumption, e.g., just 128 l/min with a dilution factor of 10,000 with four VKL 10 systems
- The dilution steps are combinable with all common particle counters
- The users themselves can test these cascaded dilution systems with a simple test set-up
- Simple, functional test on-site

Applications

- Aerosol measurement technology: test aerosols from filters and inertial separators
- Separation efficiency determination with counting measuring methods, e.g., HEPA/ULPA filters
- Leak test and acceptance measurements of clean rooms, isolators, and safety work benches
- Inhalation toxicology
- Quality control of respirator masks and filter cartridges

DATASHEET

Volume flow (clean air)	17 – 45 l/min	Volume flow (suction flow)	0.15 – 0.5 l/min
Isokinetic suction nozzles	0.028–0.06 l/min, 0.23–0.5 l/min, 0.6–1.6 l/min, 2–5 l/min, 28 l/min => 15–37 l/min	Maximum particle size	< 2 µm (for dusts)
Compressed air supply	4 – 8 bar	Dilution factor	1 : 100
Dimensions	100 • 245 • 100 mm (H • B • T)	Weight	Approx. 4 kg
Special features	Cascadable		