

Dilution system with dilution factor 1:100



Benefits

- The dilution systems from Palas® are characterized unambiguously. This is documented with a calibration certificate for each individual 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.
- These cascaded dilution systems can be tested by the users themselves with a simple test set-up.
- **Isobaric dilution up to 10 bar overpressure / isothermal dilution up to 120°C with the VKL 10 E, VKL 10 ED, KHG 10 and KHG 10 D dilution systems**
- 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



<https://www.palas.de/product/vkl100>

VKL 100



Datasheet

<i>Parameter</i>	<i>Description</i>
Dimensions	
	100 • 245 • 100 mm
Weight	approx. 4 kg
Dilution factor	1 : 100
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)
Special features	
	Cascadable
Volume flow (clean air)	
	17 - 45 l/min
Volume flow (suction flow)	0.15 - 0.5 l/min
Compressed air supply	4 - 8 bar

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