



Pressure-resistant dilution system made of stainless steel for dilution at up to 10 bar counter-pressure, and for chemically aggressive aerosols with a dilution factor of 1:10.

## 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.
- With a simple test set-up these cascaded dilution systems can be **checked by the users themselves**.
- **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: diesel exhaust gases, swarfs, coolant aerosols, weld smoke, oil droplets, test aerosols of filters and inertial separators
- Separation efficiency determination with counting measuring methods, e.g. with dust filters or 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/vkl10ed>

## Datasheet

Parameter	Description
<b>Dimensions</b>	100 • 245 • 100 mm
<b>Weight</b>	approx. 4 kg
<b>Dilution factor</b>	1 : 10
<b>Isokinetic suction nozzles</b>	2 - 5 l/min
<b>Maximum particle size</b>	< 20 µm (for dusts)
<b>Special features</b>	Cascadable, chemical resistant
<b>Volume flow (clean air)</b>	18 - 45 l/min
<b>Volume flow (suction flow)</b>	2 - 5 l/min
<b>Compressed air supply</b>	13 bar

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