PMPD 1000



The PMPD 1000 dilution system is according to the ejector principle specially developed for the PMP application or the PMP measurement chain. In the PMPD 1000, volatile particles are evaporated up to 200 °C using a thermodiluter. A dilution factor 1:1000 (see Figure 1) is achieved by cascading 3 x dilution factor 10.

Benefits

- The dilution systems from Palas® are clearly characterized. This is proven by means of a calibration certificate for each individual device
- The dilution steps of the PMPD series produce a temporally constant, representative dilution with factor 100 / 1000
- Low compressed air consumption (e.g. only 96 L/min. for a dilution factor of 1000 with four VKL 10 systems)
- The dilution steps can be combined with all common particle counters

Applications

- Dilution system for PMP measurement chain

Volume flow (clean air)	54 – 135 l/min (heated to 200 °C)
Volume flow (suction flow)	2 – 5 l/min
Power supply	115 – 230 V, 50/60 Hz
Isokinetic suction nozzles	2 – 5 l/min
Maximum particle size	< 10 μm
Thermodynamic conditions for dilution	400°C
Compressed air supply	4 – 8 bar
Dilution factor	1 : 1,000
Special features	Evaporation of volatile elements for exhaust emission measurements according to VPR Calibration Procedure AEA/ED 47382/Issue 5 (Volatile Particle Removal Efficiency), chemical resistant, heated to 200 °C