PMPD 100



The PMPD 100 dilution system is according to the ejector principle specially developed for the PMP application or the PMP measurement chain.

In the PMPD 100, volatile particles are vaporized using a thermodilution up to 200 °C. The dilution factor is 1:100 (see Figure 1). A dilution factor 1:100 (see Figure 1) is achieved by cascading 2 x dilution factor 10.

Benefits

- The dilution systems from Palas® are characterized unambiguously. This is documented with a calibration certificate for each individual device
- The dilution steps for the PMPD series deliver a temporally constant, representative dilution with the factors 100 and 1000
- Low compressed air consumption (e.g., just 96 l/min. for a dilution factor of 1000 with four VKL 10 systems)
- The dilution steps are combinable with all common particle counters

Applications

- Dilution system for PMP measurement chain

Volume flow (clean air)	36 – 90 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 : 100
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