



CIF 1000 test rig for standard tests on motor vehicle passenger compartment filters in accordance with DIN 71460 part 1 and ISO/TS 11155-1

## Benefits

- Particle measurements from 120 nm
- Measurement and evaluation of fraction separation efficiency and burden
- Automatic data acquisition for barometer pressure, temperature, humidity, differential pressure
- Temperature control (+18°C to +90°C) and moisture control (30 – 70%)
- Automatic actuation of all test rig components
- Automatic performance of the measurement processes
- Individual programming of measurement processes for filter testing using the FTControl software
- Separate measurement and analysis parts – this saves time and money, as the analysis can be performed while the measurement is still on-going
- Printouts and saving of complete test records
- Easy access to all data for the recorded measurement signals from the up to 6 external sensors
- Low-maintenance
- Easy operation
- Reliable operation
- The unit will reduce your operating costs

## Applications

- Complete filter test in accordance with DIN 71460 part 1 & ISO/TS 11155 part 1
- Test of filter media in accordance with DIN 71460 part 1 & ISO/TS 11155 part 1
- Testing of other complete filters and filter media



<https://www.palas.de/product/cif1000>

## Datasheet

Parameter	Description
<b>Measurement range (size)</b>	0.12 – 40 µm
<b>Volume flow</b>	60 m <sup>3</sup> /h – 800 m <sup>3</sup> /h (cycle operation)
<b>Dimensions</b>	Test rig: 1,000 • 2,800 • 4,200 mm, filter holder: 300 • 600 mm (filter and others on request)
<b>Material</b>	Stainless steel V2A, 2 mm
<b>Temperature regulation</b>	+18°C – +90°C
<b>Luftfeuchterege lung</b>	30% up to 70%
<b>Temperature- und humidity sensor</b>	- measuring range: -20°C - +80°C, 0 - 100 % rH, - accuracy: ± 0.1°C (20°C), ± 1 % rH (0 - 90 % rH), ± 2 % rH (90 - 100 % rH)
<b>Barometric pressure gauge</b>	- measuring range: 600 - 1100 hPa, - accuracy: ± 0.10 hPa
<b>Differential pressure gauge</b>	- Messbereich: < 2500 Pa, - Linearitätsfehler: < 0,2 % vom Endwert
<b>Measurement of the air velocity</b>	- measuring range: 0.5 - 40 m/s, - accuracy: < +/- 0.05 m/s (up to 20 m/s), < +/- 0.08 m/s (20 - 30 m/s), < +/- 0.1 m/s (30 - 40 m/s)
<b>Preconditions</b>	3 phases, 400 V, neutral, earth connection of approx. 3 KW and provision of pressurized air max. 8 bar

**Palas GmbH**  
 Partikel- und Lasermesstechnik  
 Greschbachstrasse 3 b  
**76229 Karlsruhe**  
 Germany

**Managing Partner:**  
 Dr.-Ing. Maximilian Weiß  
**Commercial Register:**  
 register court: Mannheim  
 company registration number: HRB 103813  
 USt-Id: DE143585902



**Contact:** E-Mail: [mail@palas.de](mailto:mail@palas.de) Internet: [www.palas.de](http://www.palas.de) Tel: +49 (0)721 96213-0 Fax: +49 (0)721 96213-33