



Manual Filter Media Test Rig MBP 116

Performance of filter media is essentially defined by parameters such as differential pressure, gravimetric filtration efficiency and dust holding capacity. The Topas Manual Filter Media Test Rig MBP 116 can be applied to determine these filter parameters at flat sheet materials. This test rig has been designed as universal testing equipment. It combines a simple and robust setup with a manual and therefore cost efficient handling and operation. The following test rig components are assuring a reliable and timesaving test procedure:

- Test rig frame and pressured air conditioning
- Robust flow rate unit

- Test duct with inlet filter, holder for test filter and backup filter, ports for differential pressure and fractional efficiency measurement
- Integrated Solid Aerosol Generator SAG 410/U

### Special Features

- Reliable timesaving testing of gravimetric filter efficiency, dust holding capacity, differential pressure and fractional filter efficiency
- Simple operation in combination with a robust, space saving design, modular setup (benchtop model)
- Holders for test filter and backup filter separately removable, weighable without filter removal
- Adjustable flow rate from 0.5..15.5 m<sup>3</sup>/h, steps of 0.5 m<sup>3</sup>/h
- Backup filter for protection of the flow rate unit in case of a filter breakthrough
- Integrated solid aerosol generator SAG 410/U (new development of Topas) for smallest feeding rates starting at approx. 70 mg/h
- Port to connect a vacuum cleaner
- Customized test rig specification

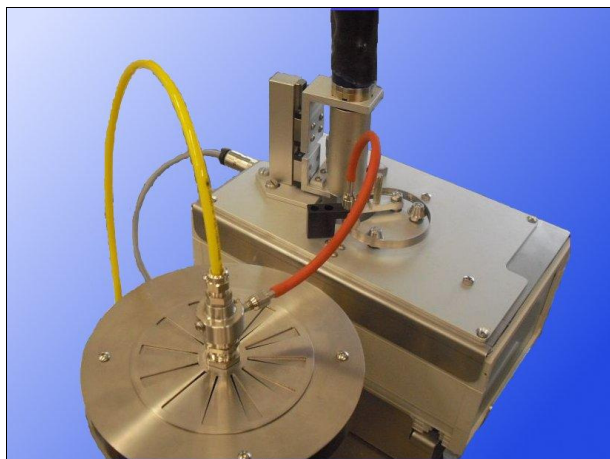
### Applications

- Quality assurance of flat sheet filter media in terms of a final clearance and a receiving inspection
- Performance testing of filter materials during research and development stage

## Specifications

### Details

- Internal compressed air conditioning
- Flow rate unit: injector pump with a set of critical nozzles to adjust different flow rates
- Intake test air is directed through a special intake section for homogenous mixing with the test aerosol
- Test filter holding manually operable
- Solid aerosol generator exchangeable by different models of the TOPAS SAG 410 series
- Control of the Solid Aerosol Generator integrated to the test rig
- Test dust dispersion by using an injector nozzle
- Suitable for test dusts ISO 12103-2 A2/A4, VDI 3926-2 Pural SB/NF, soot (e.g. Evonik 101)



Topas Solid Aerosol Generator SAG 410/U installed at the test rig MBP 116 (Test air intake section in the front)

### Optional Accessories:

- Vacuum pump for alternative flow rate generation
- Differential pressure measurement
- Fractional efficiency measurement

### Technical Data

Flow Rate	0.5..15.5 m <sup>3</sup> /h <sup>*)</sup> steps 0.5 m <sup>3</sup> /h
Differential Pressure Range	0..2500 Pa
Test Dust Feeding	Solid Aerosol Generator SAG 410/U, > 70 mg/h
Open Filter Cross Section	100 cm <sup>2</sup>
Diameter Test Filter	125 mm
Diameter Backup Filter	125 mm
Compressed Air Supply	Optimal operating pressure: 5.6 bar Air requirement: max. 47 Nm <sup>3</sup> /h
Test Air Intake	By a special adjustable intake section
Noise Emission	68 dB
Media Contacting Materials	Stainless steel, aluminum, NBR sealings
Power Supply	85-264 V AC 50/60 Hz 85-370 V DC
Dimensions L x W x H	750 x 500 x 1750 mm
Space Requirement L x W x H	1000 x 1000 x 2500 mm
Weight	65 kg

\*) Customized specification on request

QMS certified to  
DIN EN ISO 9001.



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For more information please  
visit our website at  
[www.topas-gmbh.de](http://www.topas-gmbh.de)

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