



TEST SYSTEMS

SPECTROMETER

TEST STAND

DISC FILTER

FILTER CARTRIDGE

MASK FILTER

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Testing Stations for ...

Material testing procedures for filter fabrics with regards to their particle deposition have been laid down in various national and international standards. These tests can be carried out by anyone equipped with the appropriate devices. The setup of the testing installation and the use of the respective measuring instruments are of particular importance here.

Commercially available filters and masks (such as respiratory equipment, etc.) are not

only tested for a demonstrable efficiency (of up to 99.999995%) of their mass separation, but increasingly for the number of particles and the associated separation of minute particles.

Depending on the measurement setup, these filters can be tested individually or within an automated production plant for mass production, depending on your demands and quality assurance specifications.

Example of a Small Testing Station

The picture on the right shows mechanical flat filter testing station # 7.365 in a laboratory setup. This easy-to-use portable instrument permits the measurement of disk filters with diameters ranging from 47 mm to 104 mm (4 inches).

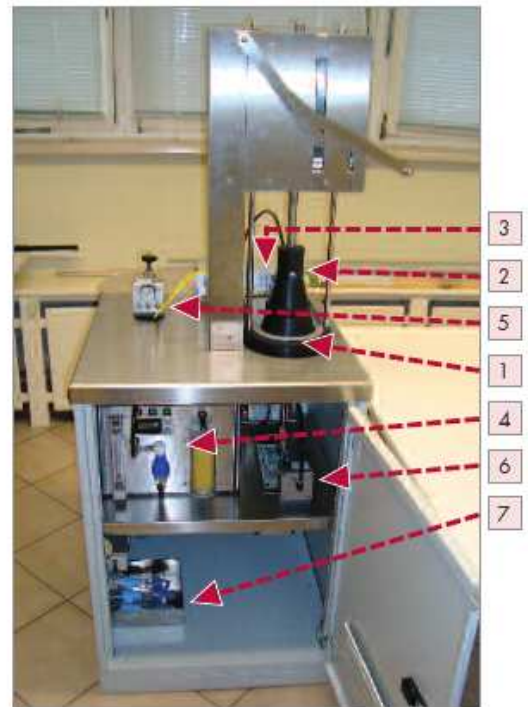
Upstream (raw gas)

The specimen (1) is supported by the supply air cone (2). Aerosols emerging from the generator (4) can be diluted with a dissolvent (5) and continuously measured by the spectrometer (3) in front of the filter.

Downstream (pure gas)

The exhaust air downstream from the filter is measured by the second spectrometer (6) and the data from (3) and (6) is collected by a PC. This way, an output of the efficiency by particle size is immediately possible.

Different atomizer heads (7) for the generator (4) are available ex stock.



GRIMM offers various test devices for the inspection of your raw material or customized filters, regardless of whether you favor the measuring part only or the entire setup. We can even provide you with big automatic filter testing units meeting your specific demands.

GRIMM systems are distinguished by durability, reliability, low maintenance, and a user-

friendly data collection and analysis. In this brochure we would like to present you with aerosol generators and measuring units for particles designed for this specific purpose, which offer high resolutions and reproducibility – prerequisite for top-level quality assurance.