



24 August 2015

TROX: Enhanced test facility for particulate filter development

High-efficiency particulate filters (HEPA) should, as the name implies, be highly efficient and ensure virtually 100 % clean air. Clean room conditions are required in micro processor manufacturing as well as in operating theatres in hospitals. Filters must, hence, be extremely reliable. This is why each filter is factory tested to ensure that it meets the efficiency requirements and is leak free.

TROX has just enhanced its existing test rig in filter R&D, which has so far been used to test coarse dust and fine dust filters to EN 779; new, additional measuring units and components make it also suitable for particulate filter testing to the EN 1822 test standard. The existing ventilation duct of the test rig was very tight even before such that no particles in the room air would be attracted and one of the basic requirements for testing the overall efficiency of particulate filters up to class H14 was fulfilled.

The test rig can now be used for all stages of filter development, which makes filter development faster overall. The existing test rig at the manufacturing site is exclusively used for 100 % testing, i.e. for leak testing and for testing the efficiency to EN 1822.



The test rig for testing and classifying coarse dust and fine dust filters can now also be used for particulate filters.



TROX is leading in the development, manufacture and sale of components, units and systems for the ventilation and air conditioning of rooms. With 30 subsidiary companies in 28 countries on 5 continents, 14 production facilities, and importers and representatives, TROX is present in over 70 countries. Founded in 1951, world market leader TROX, whose international head office is in Germany, generated in 2014 with a total of 3,700 employees around the globe revenues of €455 million.

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Press Release