

TVE 3000



With the aid of the TVE 3000, vacuum cleaner tests can be carried out more cost-effectively than in accordance with the standard EN 60312. In addition, it is possible to distinguish the separation behavior of vacuum cleaners with bags and vacuum cleaners with bags and HEPA end filters reliably with dust or as an option with salts – e.g., NaCl or KCl within the salt generator AGK 2000. The dust disperser RBG 1000 that is used operates much more uniformly than is required in the standard and therefore delivers an optimized dust application, which is a prerequisite for exact measurements of separation efficiency with a particle measurement device.

With the particle measurement system Promo® 2000, with the aid of the welas® 2300 aerosol sensor in the clean gas, a vacuum cleaner's emissions can be measured per the standard. As a result, it is possible to accurately compare vacuum cleaners, and the individual filter stages can also be reliably assessed.

With the particle measurement system Promo® 3000, users have access to a high-resolution aerosol spectrometer for virtually simultaneous determination of the particle size distribution and the particle concentration in the raw and clean gas.

The welas® 2070 aerosol sensor accurately determines the measurement in the raw gas, while the welas® aerosol sensor 2300 measures the clean gas, allowing the fraction separation efficiency of vacuum cleaner bags and HEPA end filters to be performed.

BENEFITS

- Virtually simultaneous particle measurement in the raw gas and clean gas
- Highest dosing consistency with the dust disperser RBG 1000 or with the AGK 2000
- Measurement of the particle size distribution and particle concentration in the raw gas and clean gas
- Emission measurements in accordance with standard EN 60312
- Measurement of the fraction separation efficiency for the dust bag
- Measurement of the fraction separation efficiency for the HEPA end filter
- Measurement of the fraction separation efficiency for the entire vacuum cleaner
- Low-maintenance
- Easy operation
- Reliable operation
- The unit will reduce your operating costs

APPLICATIONS

- Emission measurements in accordance with standard EN 60312
- Measurement of the fraction separation efficiency for the vacuum cleaner with bag and the vacuum cleaner with HEPA end filter

DATASHEET

Measurement (number C_N)	range	< 1 – 10 ⁶ Partikel/cm ³	Measurement (size)	range	0.2 – 40 µm
Volume flow (suction flow)		Volume flow of the system is depending on the vacuum cleaner	Power supply		115 – 230 V, 50/60 Hz
Compressed air connection		6 – 8 bar	Dimensions		2,100 • 2,600 • 600 mm (H • W • D)
Weight		Approx. 170 kg			