HMT 1000 P

The quality control and development of separators should be preferably accomplished under practice-relevant test conditions. Oil separators must therefore be tested under the application conditions at high temperatures up to 120 °C and, depending on its application field, at high pressures.

As a unique feature, the HMT 1000 P version of the test rig offers the control of upstream absolute pressure to ± 200 mbar at the entrance of the test room or test filters.

With the modular testing system, HMT 1000 P oil separators can, e. g. for the separation of blow-by aerosols in combustion engines or the separation of oil vapour behind compressors, be characterized fast and precisely and, above all, be tested isothermally up to 120 °C in step with actual practice:

- Fractional separation efficiency
- Loading time/Lifetime
- Total separation efficiency/gravimetry
- Pressure drop

Benefits

- Detection and evaluation of the fractional separation efficiency and loading
- Isothermal and isobaric measurement
- All components heatable up to 120 °C
- The inlet pressure at the test filter can be controlled in the range of ± 200 mbar
- High reproducibility of the test procedure
- Internationally comparable measuring results due to the wide distribution of the measuring system
- Cleaning and calibration can be accomplished by the customer himself
- Easy to handle, short training even of untrained staff
- Flexibility due to modular set-up
- Proof of the clear function of single components and the complete system during pre-acceptance and delivery
- Reliable function
- Short set-up times, extremely low maintenance
- Reduces your operating expenses

Applications

- Quality assurance for oil separators
- New and further development of oil separators, e.g. coalescence separators, cyclonic separators and other inertia separators, electrofilters and filter combinations, e.g. for
  - Blow-by aerosols
  - Oil mist downstream of compressors
  - Cooling lubricants on machine tools
  - Aerosols for minimal quantity lubrication

DATASHEET

Measurement range (number C_N)	Up to 10^7 particles/cm^3 with LDD100 H	Measurement range (size)	0.18 – 40 μm
Volume flow	1 – 25 Nm^3/h, 1 – 85 Nm^3/h (others on request)	Differential pressure measurement	0 – 5,000 Pa (others on request)
Compressed air supply	6 – 8 bar	Pressure	0.2 – 0.2 bar_g relative
Dimensions	Approx. 1,780 • 2,240 • 800 mm (H • W • D)		