

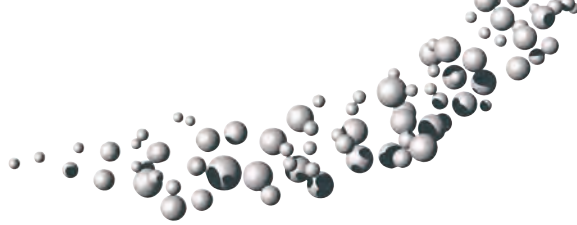
Dekati® Thermodenunder

- Easy conditioning of automotive exhaust
- Optimised removal of volatile hydrocarbons
- Increased measurement repeatability



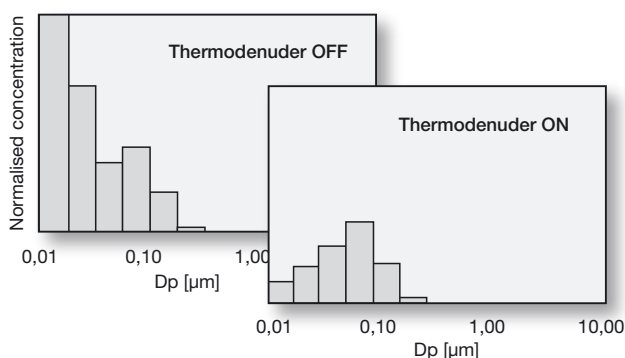
Excellence in Particle Measurements

Dekati® Thermodenuder



Dekati® Thermodenuder removes volatile and semivolatile compounds from aerosol sample. These volatile compounds may cause variability in particle size distribution and concentration measurements via nucleation and condensation. The Dekati® Thermodenuder is commonly used in e.g. engine exhaust measures to remove these effects and ensure repeatable and reliable results. The Dekati® Thermodenuder is especially suitable for use with the Dekati® ELPI®+ (Electrical Low Pressure Impactor) but it can be used with any measurement device with a suitable flow rate.

The Dekati® Thermodenuder consists of an aerosol heater and active carbon absorber section. The heater section vaporizes volatile compounds when the aerosol sample enters the instrument. After the heater section, the sample enters the absorber which absorbs these vaporized compounds in active charcoal. Cooling air or water is applied around the absorber section to decrease the sample temperature at the Dekati® Thermodenuder outlet to ambient level. The Dekati® Thermodenuder can thus be effectively used in a combination with any other Dekati® Dilution or real-time measurement device.



The effect of Dekati® Thermodenuder on a particle size distribution with a nucleation mode consisting of volatile particles.

Features

- Removes volatile and semivolatile compounds from exhaust sample
- 10-20 lpm sample flow rate
- Can be heated up to 300 °C
- Easily replaceable active carbon mats

Specifications

| | |
|-------------------------------|----------------------------------|
| Sample flow rate | 10–20 lpm |
| Maximum operating temperature | 300 °C |
| Cooling medium | Air or water |
| Weight | 7.5 kg without filter cartridges |

| | |
|----------------|------------------------|
| Dimensions | |
| Length | 95 cm |
| Width | 22 cm |
| Inlet | 12/10 mm pipe |
| Outlet | R 1/2" female |
| Electric power | 230V/350 W, 110V/350 W |

Accessories

- The active carbon is in the form of easily replaceable mats that make the use and maintenance of the Dekati® Thermodenuder extremely easy.



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Dekati Ltd. is specialized in the design and manufacture of innovative fine particle measuring and sampling devices. Since its founding in 1994, Dekati has become the technological market leader in producing fine particle measurement instrumentation for various applications and thousands of customers. ●