SERIOUS ABOUT DIESEL PARTICULATE MATTER?

Diesel exhaust emissions contain a range of chemicals, gases and the known carcinogen diesel particulate matter (DPM).

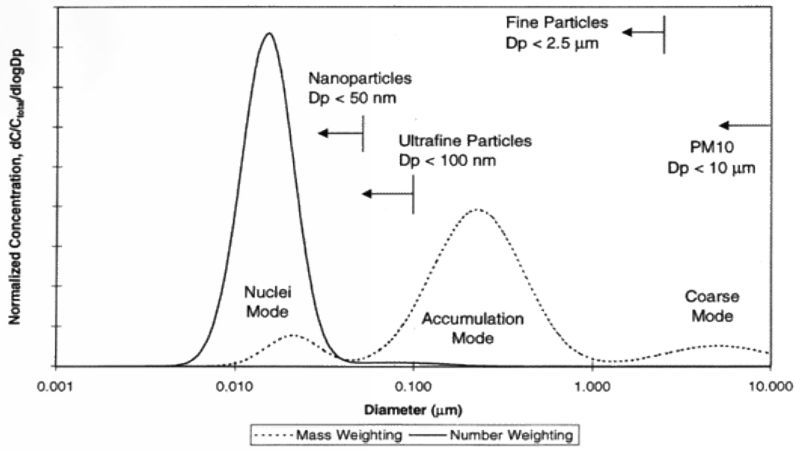
Companies invest significantly, often millions of dollars, to protect their employees from harmful DPM via a variety of methods, including Diesel Particulate Filters (DPF) and Tier 4 engines. How do you measure the effectiveness of these expensive business investments?

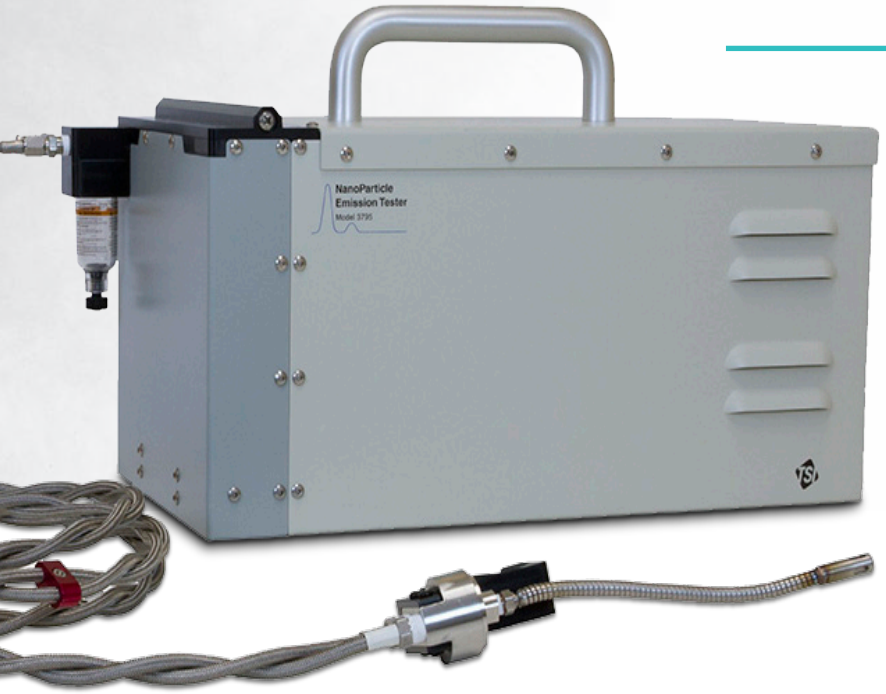
MEASURING DPM

Cracked DPF fail to filter the most lung-penetrating particle sizes of 70 – 100 nm. Conventional mass or opacity based instruments can be "blind" to particles <100nm. So how do you measure these nano particles when they have virtually no mass?

The TSI 3795 Nano Particle Emission Tester (NPET) is the solution.

Kittelson, Journal of Aerosol Science, 1998





TSI 3795 NPET

With a 1 micron filter and catalytic stripper that evaporates volatile material, a Condensation Particle Counter (CPC) counts the remaining exhaust particles.

Measure counts before and after you replace a filter – see the efficacy in real time.

Become a leader in DPM management with the NPET, an instrument used to comply with the Swiss regulations SR 941.242.

The NPET 3795 HC (High Concentration) is also available to handle high emission levels, including upstream of after treatment system.

For more information, contact us or visit our website:
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