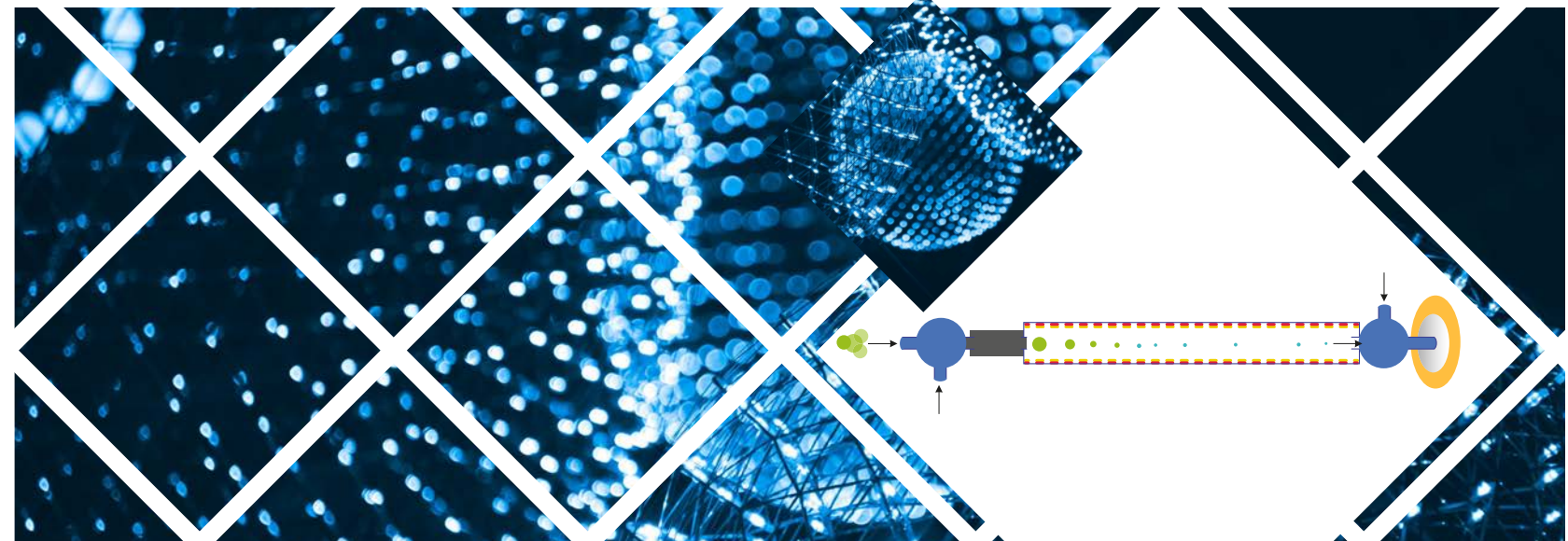




Vocus Aerosol Inlet

Online analysis of the molecular composition of aerosols with Vocus PTR-TOF



Features

- High sensitivity
- Simple design without aerodynamic lens
- Efficient measurements of wide size range
- Automated filter blanks and alternating gas- and particle-phase sampling
- Install or uninstall in less than 10 minutes
- Fully integrated into Vocus control software

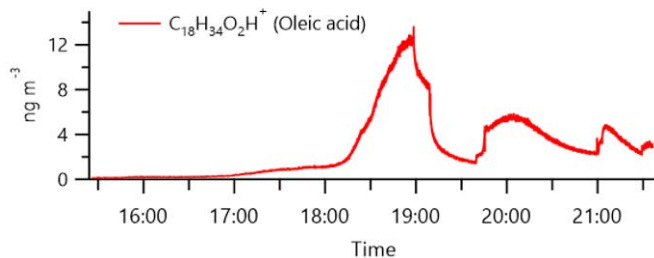
Applications

- Atmospheric aerosol sampling
- Combustion particle analysis
- Cigarette / e-cig emission analysis
- Industrial emissions of particulate matter

Vocus PTR-TOF

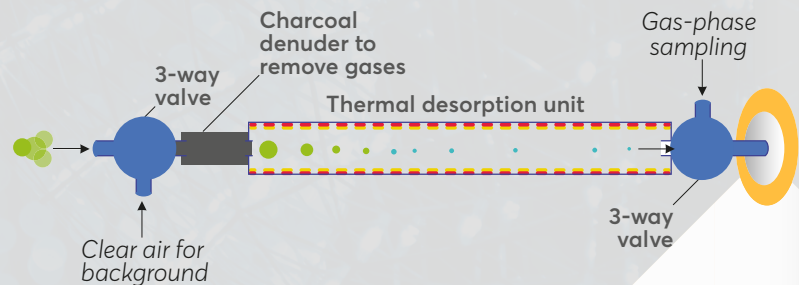
Real-time chemical speciation of aerosols

The Vocus aerosol inlet module enables real-time molecular analysis of aerosols in addition to gas-phase VOCs measurements.



The Vocus Aerosol Inlet is an add-on device for the Vocus PTR-TOF that expands the instrument's capabilities to the particle phase. An activated charcoal denuder is used to remove gas-phase species from the sampled air. The stainless steel thermal desorption unit then evaporates particles, driving constituents into the gas phase for analysis with the Vocus PTR-TOF. Programmable valves allows automated filter blanks or switching between gas and particle-phase.

Schematic of Vocus Aerosol Inlet



Specifications

Limit of Detection	< 5 ng m ⁻³
Size Range	60 - 1000 nm
Maximum Temperature	230 °C
Response time	60 s

