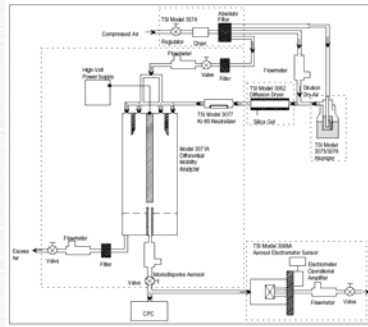


Keck Aerosol Laboratory Instrumentation



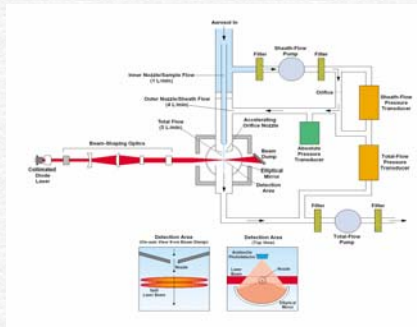
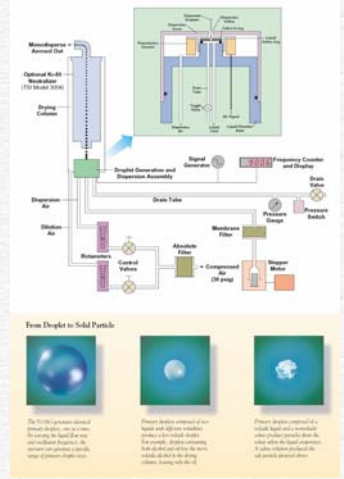
TSI Monodisperse Aerosol Generation Systems

Produces sub-micron monodisperse aerosol of known size and concentration.



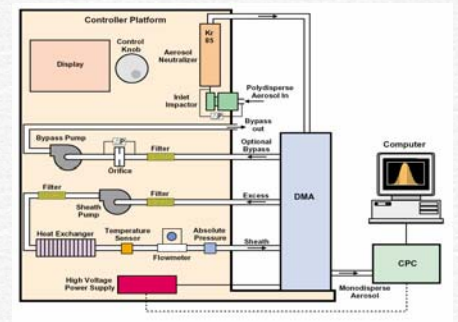
TSI Vibrating Orifice Aerosol Generators

Produces monodisperse aerosol in solid or liquid form in the size of 1 to 100 μm .



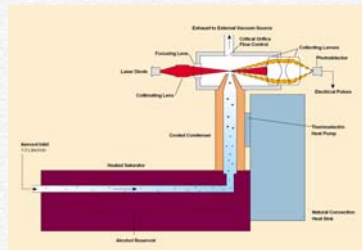
TSI Aerodynamic Particle Sizer Spectrometer

Measures aerodynamic size distribution and light scattering intensity for particles between 0.5 and 20 μm .



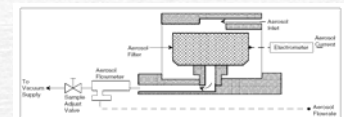
TSI Scanning Mobility Particle Sizers

Measures the aerosol size distribution in the sub-micrometer size range.



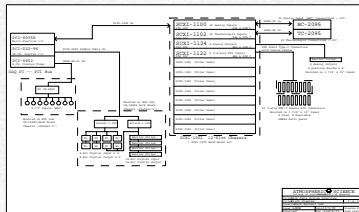
TSI Condensation Particle Counters

Measures particle concentration for sizes > 10 nm.



UWy Aerosol Electrometer

Measures the charge on aerosol particles. When paired with an electrostatic classifier it can be used to measure the concentration of monodisperse aerosol.



UWy Data Acquisition System

LabVIEW based data acquisition system for various inputs/outputs with real-time display capability.



Tenney Vacuum/Temperature Chamber

Capable of producing pressures of 1013 mb to 2 mb and temperatures of 177 $^{\circ}\text{C}$ to -77°C . The chamber is integrated with uniform aerosol delivery system for characterizing balloon and aircraft borne instruments.