

# Condensation Monodisperse Aerosol Generator

## Model 3475

Generates high-concentration, monodisperse aerosols quickly and accurately.

The Condensation Monodisperse Aerosol Generator (CMAG) is a Sinclair-LaMer-type instrument that produces high-concentration, monodisperse aerosol particles. It is well-suited for challenging HEPA and ULPA filters, seeding wind tunnels, conducting inhalation studies, or other applications requiring monodisperse particles in high concentrations.

The CMAG generates liquid or solid particles from a variety of oils, waxes, and other materials. It generally produces concentrations greater than  $10^6$  particles/cm<sup>3</sup>, and operates at a flow rate of 3.5 - 4 L/min. Particles can be fluorescently or radioactively labeled. Monodisperse particles can be generated by condensing volatilized oil or wax onto solid seed particles; in this case, the final monodisperse size is within the range of 0.1 - 8  $\mu$ m, and is user-adjustable. The CMAG can also generate particles via homogenous nucleation, resulting in a polydisperse aerosol. The CMAG can operate for long periods without interruption. Aerosol may be monitored for concentration using the optional Process Aerosol Monitor 3375.

Please specify voltage requirements at time of order.



### CMAG Accessory (available separately):

Specify	Description
3375	Process Aerosol Monitor

