



## 5C Thermal Aerosol Generator



**T**he 5C thermal aerosol generator is versatile and portable. It is ideal for certification of large applications and those requiring a wide range of aerosol concentrations such as in large cleanroom plenums, particularly where compressed air is not available. The 5C provides a high capacity solution for demanding industries such as those of independent filter certifiers, military or commercial nuclear facilities, pharmaceutical manufacturers, medical facilities, facilities with multiple cleanroom plenums, and other industrial applications.

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### A tough, portable solution

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Used in conjunction with an aerosol photometer, the user can detect and measure leakage in high efficiency filtration systems.

The 5C thermal aerosol generator produces aerosol at concentrations ranging from 100 µg/l down to 10 µg/l at airflows ranging from 6,500 to 65,000 cfm.

### A safe, convenient design

Incorporating fail-safe features such as oil feed and thermal shut off, auto-purging of the heater block, tipping cut out technology, and a liquid level sight gauge make the 5C the safest thermal aerosol generator available today.

All controls and displays are grouped on the front panel for easy operation away from the potentially hot aerosol generator output nozzle. High liquid capacity allows for up to four hours of continuous operation without refilling.

Digital temperature control with redundant feedback allows the operator to optimize the unit for the aerosol agent being used, and aerosol output can be adjusted to accommodate specific application requirements.

A new output nozzle collar design guarantees adequate vapor quenching mitigating potentially improper operation.

### Easy maintenance

Routine preventative maintenance is limited to inspection and validation of system operating voltages, electrical connections, temperature controller and internal regulator.

#### Product specifications: 5C Thermal Aerosol Generator

<b>SIZE:</b>	14" L x 10" W x 10" H (35cm L x 25cm W x 25cm H)
<b>WEIGHT:</b>	23lbs (9.1kg)
<b>AEROSOL OUTPUT:</b>	1,500 – 65,000 cfm
<b>CONCENTRATION:</b>	100 ug/l@ 6,500 cfm 10 ug/l@ 65,000 cfm
<b>GENERATOR TYPE:</b>	Vapor Condensation
<b>COMPRESSED GAS:</b>	Nitrogen, Argon, Carbon Dioxide, or Helium (20CFH @ 50psi)
<b>ELECTRICAL:</b>	110VAC/60 Hz or 220VAC/50Hz
<b>AEROSOL TYPE:</b>	Poly-dispersed (Cold)

*The propellant must be an inert gas such as the liquid vapor temperature is above the liquid flashpoint.*



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