

Aerosol Generator*

DDS AERO

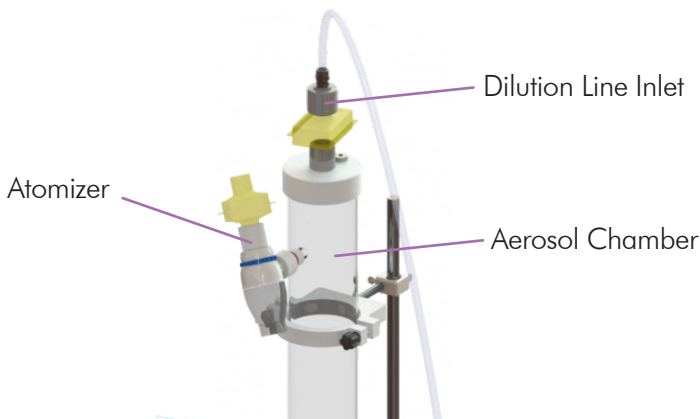
DDS AERO is a pneumatic-type nebulizer that produces monodisperse and polydisperse aerosol for different applications.

DDS AERO has 2 independent pumps that can work together or separately: Aerosol (Atomizer) Line 1 and Dilution Line 2.

Features:

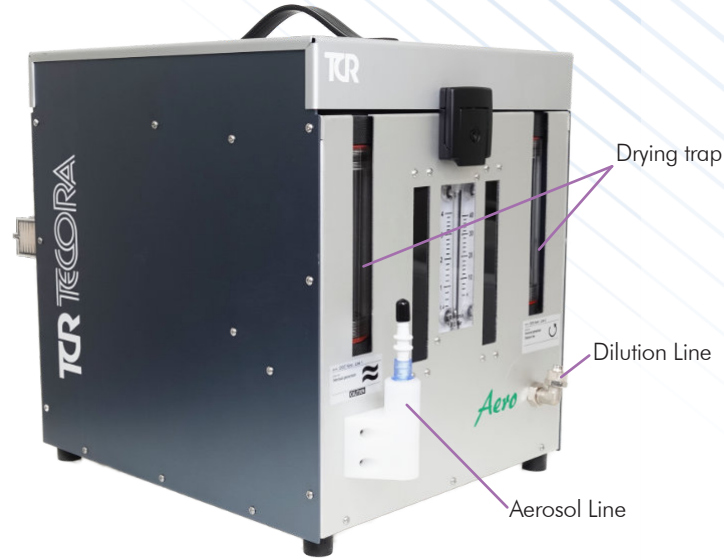
Dilution line 2 is used to increase airflow which ensures the drying of the particles and reduces the overall humidity inside the Aerosol Chamber.

Connection of **DDS Aero** to the Atomizer:



DDS AERO is used to generate aerosolized bacteria for testing Bacterial Filtration Efficiency (BFE).

DDS AERO can work with different kinds of nebulizers/atomizers (Aerosol atomizer – with manual aerosol size regulator (3 Positions) – Ideal for EN14683 is usually used).

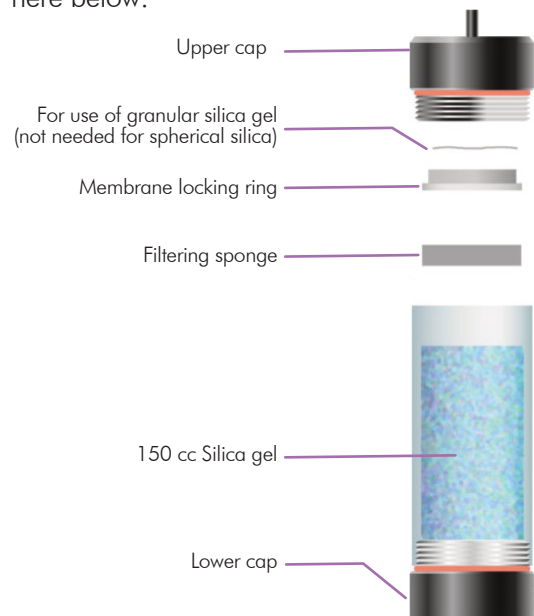


*For water and salt aerosol generations
 Flow and working pressure regulation through manual valves.

Drying Trap of Aerosol Generator

The sampler protection traps dry the air and prevent damages to the pumps and HEPA filters.

The trap must be assembled as shown in the figure here below:

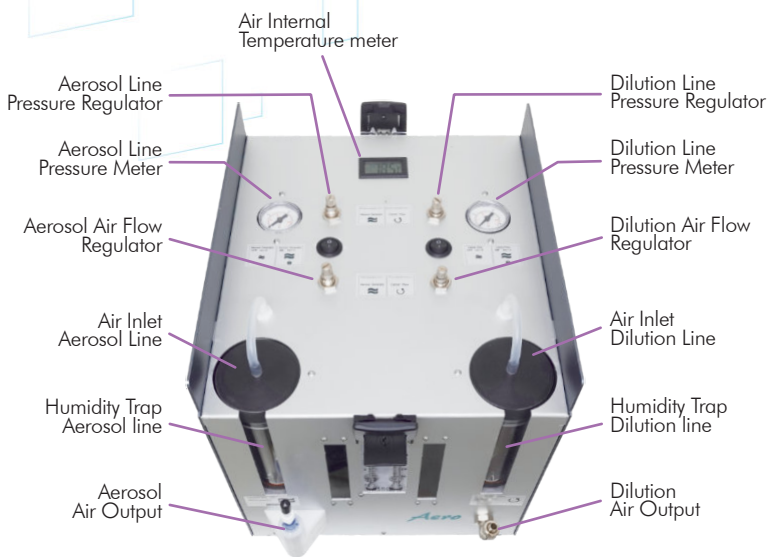




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Main Panel Details



Back side with HEPA filters

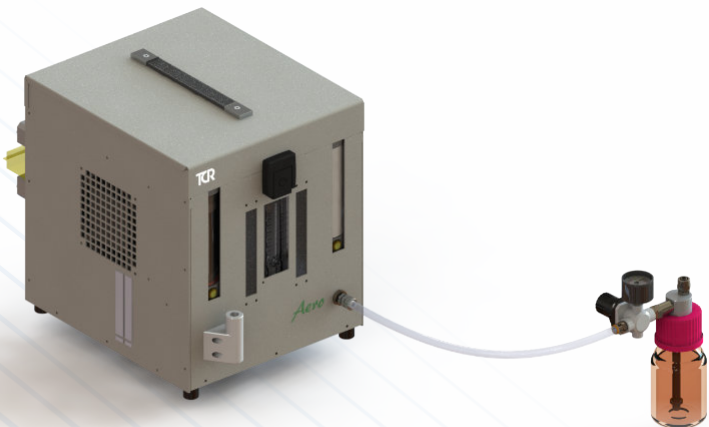


HEPA filters have 99.999% abatement efficiency

Example of Application: [DDS Aero connected to LASKIN for compressed air](#)

The **DDS AERO** Dynamic Dilution System Particle-Generator is designed and realized also to be suitable for HEPA/ULPA filters as described in EN 1822 (accessories required).

DDS AERO is equipped with POF HEPA filters for particle air free generation and protection of ambient working area avoiding room contamination.



DDS AERO is also zero air generator, it can filter particles with Hepa filters up to 99.999 % and can have a line with silica gel dryer, purafilter with activated carbon mixed inside for pollutant abatement and air purification.



Click here to discover more about Laskin Aero X

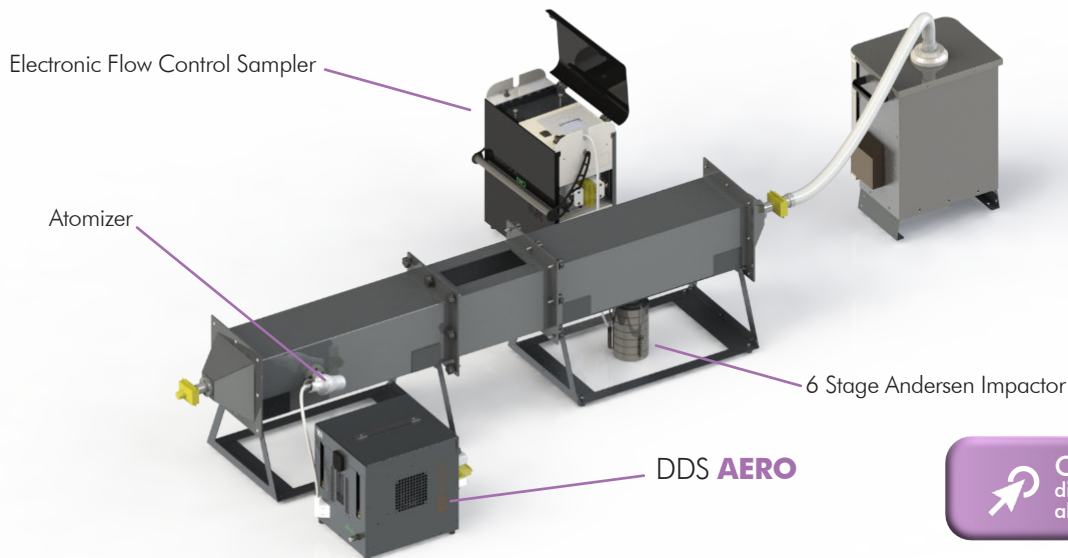


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Example of Application: UV-C Light Ultraviolet Sampling System

UV-C BioKit is a sampling system for monitoring the Bioaerosol (Virus, Bacteria, Fungi, Spores, Protozoa Pollen, Algae) in a UVGI in-duct device using a UV-C Light Ultraviolet Lamp Irradiation Chamber, 6 Stage Andersen Impactor, Aerosol Generator connected to Atomizer and also an Electronic Flow Control Sampler.



APPLICATIONS



Filter testing;



Instruments Calibration;



Vacuum cleaners test performance;



Bacteria materials efficiency;



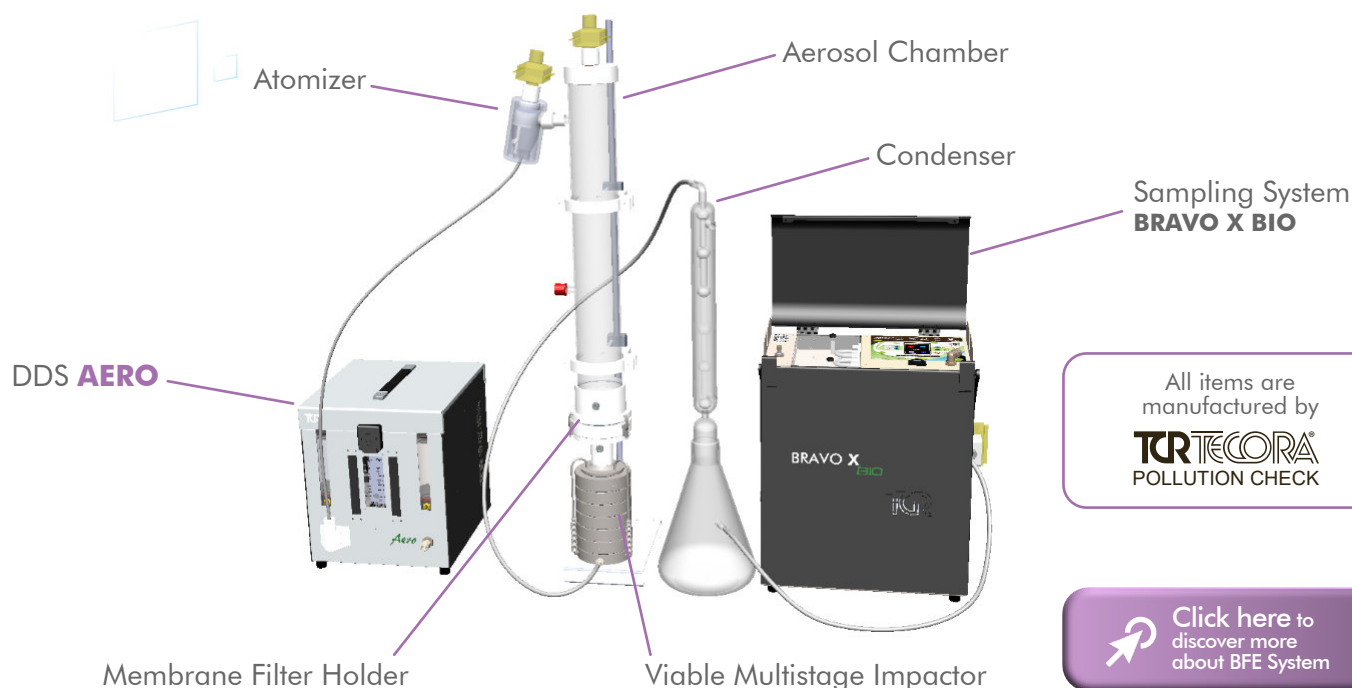


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Example of Application: BFE System Equipment

As described in the EN 14683 Technical Standard, Annex B (BFE Bacterial Filtration Efficiency), the sampling line is composed as shown in the figure here below:



All items are manufactured by
TRTECORA[®]
 POLLUTION CHECK

[Click here to discover more about BFE System](#)

TECHNICAL FEATURES

| | |
|------------------------|--|
| Particle size range | 10 nm to 10.000 nm |
| Dimensions L x W x H | 300 x 300 x 300 mm |
| Weight | 5 Kg |
| Pump Line 1 | Membrane pump type |
| Pump Line 2 | Membrane pump type |
| Pressure Line 1 | 0 – 1 bar |
| Pressure Line 2 | 0 – 1.2 Bar |
| Flow Line 1 – Atomizer | 0 – 4 l/min (base version) 0 – 7 l/min (high version) |
| Flow Line 2 - Dilution | 0 – 22 l/min |
| Dryer line 1 | Spherical Silica Gel |
| Dryer line 2 | Spherical Silica gel (Charcoal for gases dilution) |

CODES

| | |
|---|-----------------|
| Aerosol generator model DDS AERO | AC99-120-0000SP |
| Spare kit, HEPA filters | AC99-120-0005SP |
| Aerosol chamber made in Pyrex Glass | AC99-120-0001SP |
| Andersen Cascade Impactor 6 Stages (viable) | AC99-120-0002SP |
| Condenser made in Pyrex Glass | AC99-120-0003SP |
| Bravo X BIO Sampler | AA99-000-0740SP |

