



## Aura

### CONTINUOUS AEROSOL GENERATOR

#### DESCRIPTION

The Aura has been specifically designed to function as a Continuous Aerosol Generator (CAG) for testing e-vapour & cannabis products, electrically heated tobacco products and aerosol heated tobacco products (eHTPs and aHTPs).

It operates as a CAG by changing the timings of the five individual puff engines, such that one puff engine starts exhausting before the preceding one ends, giving a single overlapping exhaust profile from the five puff engines. This essentially ensures that the puff engines run in a synchronised manner to provide a continuous aerosol flow. This feature is highly desirable for toxicological exposure studies.

The Aura offers the user the ability to program a puffing regime for establishing delivery from various e-vapour, cannabis vape, and HTP devices, and comes with angled vaping as standard to mimic human use.

The user can select puff profile, volume, duration, interval, and overlap period to deliver a continuous aerosol for analysis or exposure to culture cells, e.g. via a Zephyr chamber (Air Liquid Interface).

The software can be supplied on a memory stick which can be inserted into a USB port of a standalone laptop PC running a Windows 10™ operating system. The application allows for the user to export the experimental data as CSV files which can be accessed through Notepad+.

The PC is used for entry of test parameters and display of results.

The operator can setup libraries and test regimes and is fully password protected with admin defined user profiles.

#### FEATURES

- Capable of sampling e-vapour and cannabis products, eHTPs and aHTPs.
- Fixed-puff operation
- Clearing puffs per device / run
- Angled vaping at 15° intervals
- Optional button pressing kit
- Square and ISO bell profiles

#### APPLICATIONS

- Testing flow- and button-activated e-vapour/cannabis devices
- Testing flow- and button-activated electrically heated and aerosol heated tobacco products (eHTPs and aHTPs)
- Can be coupled to a Zephyr Air Liquid Interface (ALI) for *in vitro* or *in vivo* toxicology testing
- Suitable for coupling to third party *in vitro* and *in vivo* exposure systems

## TECHNICAL SPECIFICATIONS

Electrical: (Voltage / Frequency & Power)	90 - 240 V @ 50/60 Hz 150VA
Pneumatics:	3 Bar for button activation
Operating Conditions: (Temp / Humidity)	15 to 35°C @ 40 - 90% RH non-condensing
Dimensions (W x H x D) / Weight:	460 mm x 470 mm x 400 mm (700 mm including angled vaping bar) / 27 kg

## PRODUCT SPECIFICATIONS

Sample Diameter:	Up to 30 mm
Sample Mouthpiece Diameter:	Round or oval. From 4.50mm - 10.00mm.
Puff Volume / Duration:	35 or 55 ml / 2.0 - 3.0 secs as fixed integers
Puff Interval / Total Puffs:	30 or 60 seconds / 1 - 999 puffs
Profile	Square or ISO bell
Puff Overlap Period / Value:	10 - 500 milliseconds / 50 milliseconds

## OPTIONS

Volume indicator / Bubblestick

VFA450RH Puff Profile Analyser

Button activation mechanism

Zephyr (Air Liquid Interface Chamber)

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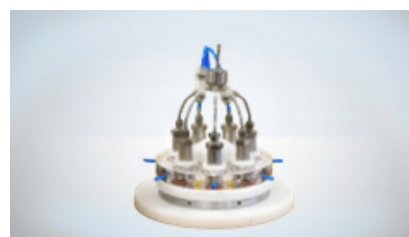
Volumetric indicator / Bubblestick



Pre Activation Button Presser



Zephyr (ALI Chamber)



## CONTACT YOUR REGIONAL SALES MANAGER FOR MORE INFORMATION

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