

Test loose tobacco & cannabis flower for Heated Tobacco Products and dry herb vaporisers



for Quality Control & device development



Test loose material

Effective QC control

Insights into raw materials

Evaluate heating strategies



Capture gases and aerosol

For chemical analysis on- and off-line

Evaluate taste and mouthfeel

Understand the user experience



The SCS and TCT combination

The SCS is Cambustion's established smoking & vaping machine, continuously evolved since 2004 to meet new market requirements.

The SCS enables users to define flow rate vs time profiles and test products such as combustibles, heat not burn, vapes and more. Data recording of pressure drop, flows and temperatures is standard, and the SCS supports measurements of gases and particles both on- and off-line.

The Tobacco Cannabis Tester is a fully integrated accessory for the SCS, enabling users to test small quantities of loose material in a heat not burn application. Users can define both heating and flow profiles, and testing is initiated with a single click.

Workflow

Up to ~2cc of test material is loaded into an empty cannister, and the lid fitted to retain the contents.



The cannister is inserted into the TCT.

Select via software the temperature-time and flow-time profile to be reproduced, which may be standard or user defined.

The test proceeds automatically while logging all operating parameters.

The test cannister is removed following cooling after the test, and the material either discarded or recovered for further analysis.

Data recording

The combined SCS & TCT records temperatures, pressure drops and flow rates for every test.

Configurable reports

User configurable reports summarise important test parameters and generate easy to understand graphs.

Easy access to gases and particles

The combination of SCS and TCT allows easy material collection in bags, impingers, filter pads and even access to gases and particles for human evaluation.

Accurate and highly reproducible

Careful design ensures that testing with the SCS & TCT is highly reproducible, while traceable calibration certificates ensure confidence in data quality.

Parameter	Specification
Usable volume of test cannister	~2 cc
Test cannister material	stainless steel
Max test temperature	350°C
Puff repeats	Unlimited
Power supply	100, 120 or 220VAC, 50/60 Hz
Power consumption	max 200 W
Flow & temperature profile following	up to 20 Hz
Data logging	Routine logs of all temperatures, pressures, flows
Compatible test materials	Loose tobacco Loose cannabis
Number of channels	1 (single test article)
Cannister handling	Manual
All specifications subject to change without notice	

Cambustion is an independent, privately owned company with headquarters in Cambridge, UK and customers in more than 35 countries worldwide.

Cambustion continue to research & develop novel instrumentation, and now also offer measurement consultancy, helping our global clients to solve a wide range of particle and gas measurement issues.



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