

SC-VTS Vapor Test System

Equipment and Features

Recirculating Chillers for temperature control

Electrical Feedthroughs for connection to sensors

Humidity Source with real-time relative humidity measurements

Custom Stainless Steel Test Chamber with temperature and humidity sensors inside chamber

Open-loop VOC or Gas Concentration Control using computer controlled mass flow controllers

Environmental Range

Closed Loop Temperature Control: 0 to 80 \pm 0.05°C; 20 minute response time

Outer Enclosure with closed-loop temperature control: \pm 0.5°C

Relative Humidity Control: 0 to 100% \pm 2%RH; 10 minute response time

Sources: VOCs sourced from temperature-controlled bubbles and Gases sourced from cylinders. Concentrations controlled over a range of up to 5 orders of magnitude

The **SC-VTS Vapor Test System** contains an environmentally friendly chamber into which sensors are placed for testing. A user-friendly computer program varies the temperature, humidity, and the concentration of up to (typically) five different vapors or gases inside the chamber while recording the output of up to forty sensors. The system can accommodate most small gas sensors without modification and test runs are fully automated.

Sensor Chamber Assembly
Data logger
Mass Flow Controllers
Power Supplies
Recirculating water baths
Humidifier
Test Gases



Type	SC-VTS
Compatible Gases	CO ₂ , N ₂ , Air, H ₂ , NO ₂
Compatible Volatile Organic Compounds (VOC)	Aldehydes, Ketones, Alcohols, Phosphonate Esters, Ethers, Aromatics, Chlorinated VOCs, Amines, & Nitro-compounds
Test Chamber Volume	Custom sizing Available
Test Temperatures	-50 to 150°C
Humidity	3 to 100% at 25 °C
Analytes Tested	Up to 5 simultaneously

2151 Las Palmas Drive, Suite C
Carlsbad, CA 92011
(760) 268-0083
(760) 268-0662 - Fax
Sales@seacoastscience.com

www.seacoastscience.com

Contact Seacoast Science to see how our vapor test system can be tailored to meet your specific sensor testing applications.