SCION INSTRUMENTS

A Techcomp Company

VERSA HEADSPACE

AUTOMATED HEADSPACE VIAL SAMPLER

The Versa System

VERSA IS THE PERFECT SOLUTION FOR APPLICATIONS WHICH REQUIRE ALL THE ADVANTAGES OF HEADSPACE ANALYSIS AND IS ECONOMICAL TO FIT ANY BUDGET.

Static headspace is one of the most popular techniques due to its versatility for analyzing volatile organic compounds (VOCs) in a complex variety of matrices. This is due to the elimination of tedious sample preparation steps and prevents contamination problems that are common to other sample introduction techniques.

Advantages of the Versa

- Small on size yet big on value (only 12" wide).
- 20-position autosampler/single position platen oven for static sampling analysis of 22 mL vials.
- Sample heating to 200°C throughout pathway.
- Built-in pressure control to ensure consistent volume for all samples regardless of external conditions.
- Automatic Leak Check and Benchmark test for quick troubleshooting.
- Automated method development using Method Optimization Mode (M.O.M.)
- Versa TekLinkTM software for use as standard or full 21 CFR compliance.

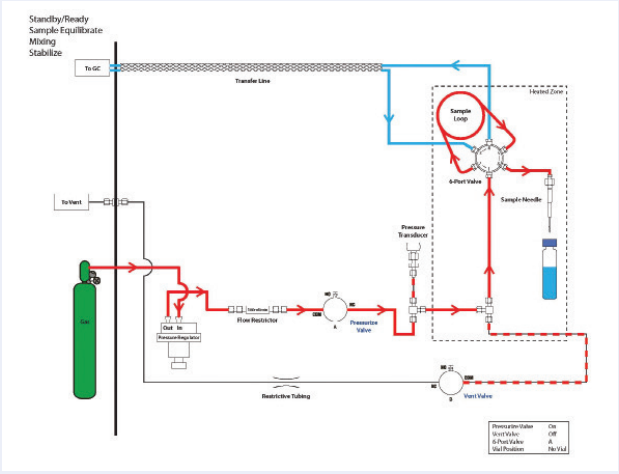
Applications and Industries

Applications and Industries

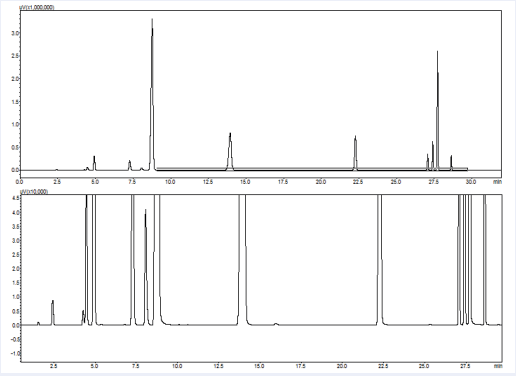
THE VERSA CAN QUICKLY AND ACCURATELY IDENTIFY RESIDUAL SOLVENTS IN BULK OR FINISHED PHARMACEUTICALS AS PRESCRIBED IN THE UNITED STATES PHARMACOPEIA (USP) AND IT MEETS ALL OF THE GUIDELINES PER USP METHOD <467>.

Other applications include:

- Dissolved Gas Analysis per Method RSK-175.
- Contaminants in packaging materials.
- Volatile Organic Compounds (VOCs) in drinking water, wastewater, and soils.
- Screening of high level samples with EPA Method 5021.
- China Environmental Method GB-5749.
- Flavour and Fragrance profiling.
- Forensics and Toxicology.



This static low diagram shows the system in a standby mode in which the loop and needle are continuously swept with an inert gas to ensure cleanliness between samples.



Residual Solvents per USP <467>

A. Carousel Tray

The 20-position carousel tray is removable from the carousel drive assembly; the tray can be removed without the vials.

B. Inert Sample Pathway

Inert sample pathway including transfer line, sample needle, and loop provide superior analytical results by eliminating adsorption and reducing carryover.

The valve and loop sample method has proven to be the industry's most reliable technique for headspace sampling. The entire sample path is SilcoNert® 1000 and can be heated up to 200°C thus minimizing analyte carryover. Different loop sizes ranging from 250 µL to 5 mL may be used depending on application.

VOC TekLink™

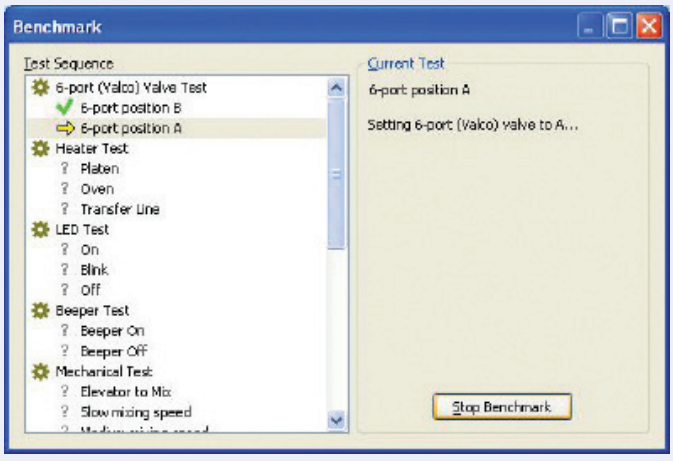
Fully Optimized User Interface

VERSA COMES WITH EASY-TO-USE AND PROVEN VERSA TEKLINK SOFTWARE THAT OPERATES FROM WINDOWS 10 OR HIGHER AND INCLUDES 21 CFR COMPLIANCE TOOLS. ALL INSTRUMENT PARAMETERS, METHOD SCHEDULING AND EDITING CAN BE PROGRAMMED.

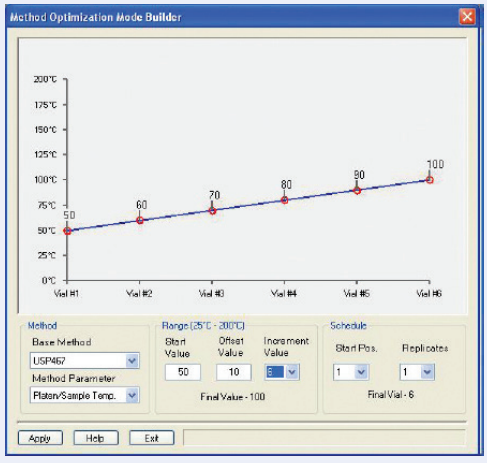
Schedule Screen - Versa TekLink is capable of performing useful diagnostics such as a Leak Check and Benchmark test. The Benchmark screen contains an interactive program that tests the Versa components including heaters, LEDs, valves, and the continuity of inputs and outputs.

Diagnostics Screen - Developing a new method to achieve the best analytical results for an application can be both dificult and time consuming. With M.O.M., the analyst can optimize different method variables such as platen temperature, sample equilibration time, pressurization, mixing, loop fill, and inject times in order to substantially shorten the time required for method development.

The method starts with a value and the parameter of choice will increment during the optimization process. For example, a value of 10 will increment the platen/ sample temperature by 10°C for every sample. The first sample will be heated to 50°C, the next sample at 60°C, and so on.



Schedule Screen



Diagnostics Screen

Versa Specifications

Autosampler	Capacity 20-positions
Platen Heater	Single position; ambient to 200°C via resistance heater settable in 1°C increments
Vial Size	22 mL vials
Sample Loop	Ships with a standard 1 mL Silco® coated loop. Other optional loop sizes include 100, 250, 500 µL as well as 2, 3, and 5 mL
Sample Mixing	System allows variable power settings from low/medium/high
Sample Pathway	SilcoNert® 1000 Tubing. Entire sample pathway temperature controlled up to 200°C
Software	Versa Teklink software in a Windows® 10 or greater environment via USB connection Versa Teklink can be configured for full 21 CFR Part 11 compliance tool capability
GC Interface	Interface to virtually all commercially available GC instruments. Supplies or accepts GC and Data System start/ready signals via software selectable GC/IO configuration
Pressure Control	Software has the ability to control pressure to ensure consistent volume regardless of external conditions for all samples via a pressure transducer
Valving	Motor-actuated 6-port valve with removable rotor (controlled from ambient to 200 °C)
Voltage Requirements	100/115 VAC +/- 5%, 50/60 Hz 5 amps 220/240 VAC +/- 5%, 50/60 Hz, 2.5 amps
Gas Requirements	Ultra-high-purity (99.999%) Helium or Nitrogen; incoming pressure: 45-140 psig
Unit Dimensions	21 in (53.34 cm) x 12 in (30.48 cm) x 21 in (53.34 cm)
Weight	40 lbs. (18.14 kg)
Environmental Conditions	Operating Temperature: 10° to 30 °C; Storage Temperature: -20° to 60°C; Relative Humidity: 10% to 90%
Corrosion Resistance	The chassis and carousel tray are resistant to aqueous samples with pH range 1-10

SCION Instruments UK Ltd.
4 Michaelson Square
Livingston,
EH54 7DP, Scotland,
United Kingdom

scioninstruments.com
Tel: +44 (0)1506 300200
Email: sales-eu@scioninstruments.com

SCION Instruments NL BV
HQ, Amundsenweg 22-24,
4462 GP Goes,
The Netherlands

scioninstruments.com
Tel: +31 (0) 113 287 600
Email: sales-eu@scioninstruments.com

SCION Instruments USA
11840 West Market Place
Suite K and L
Fulton, MD 20759
North America

scioninstruments.com
Tel: 1-844-547-0022
Email: sales-USA@scioninstruments.com

STG05 / 07.25