

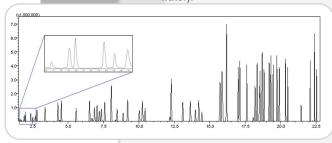
CDS 8500 Automated Purge and Trap Concentrator for GC-MS

Purge and Trap Concentrator with the Latest 3rd
 Generation Autosampler for EPA 8260 Water and Soils

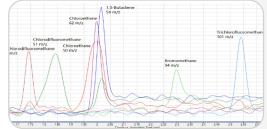


CDS Analytical is celebrating its 50th anniversary. CDS Analytical was founded by Dr. Eugene Levy in Nottingham, PA in 1969, and moved to its state-of-the-art Oxford, PA facility in 1981. Over the past 50 years, CDS Analytical has been expanding its core business from Analytical Pyrolysis to a full range of GC Sample Introduction methods, including Thermal Desorption, Purge & Trap, and Dynamic Headspace.

The CDS-8500 is now the latest installment in the Purge and Trap concentrator line having originated from the legendary 7000 series concentrator. Combined with a cutting-edge 3rd generation autosampler, the unmatched reliability and chromatographic resolution will make the 8500 a perfect fit for US EPA methods 524 (drinking water), 624 (waste water), and 8260 (soil and water).

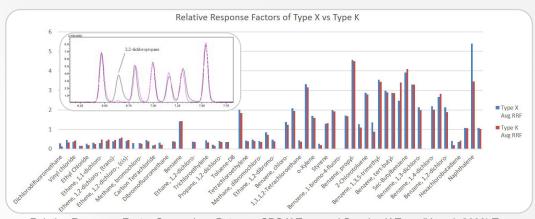


63 EPA 8260 VOC's at 20 ppb concentration



Detection limits as low as 0.2ppb

- Patented Foam Sensor
- Optional N₂ and He Dual Channel MFC
- Exceeds the EPA 8260C Method Requirements
- Silconert 2000 and PEEK Inert Coated Sample Pathway
- Proprietary Membrane-type Heater for Sparge Vessel
- 8-port Valco Higher Temperature Valve for Online Moisture Removal
- Proprietary X Type Trap Improves the Relative Response Factor Comparing to K Type Trap



Relative Response Factor Comparison Between CDS X Type and Supelco K Type (Vocarb 3000) Trap









High temperature (350 °C) pneumatic 8-port valve



High temperature transferline (350 °C)





Insulated valve oven



Foam and back-flow sensor





Silconert 2000 coated sample path



Active air-cooled trap with quick access compartment





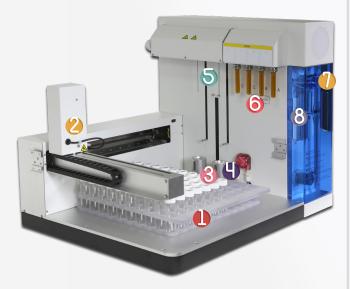
Proprietary Type X trap



Quick release sparge door

8500A Purge and Trap Water and Soil Autosampler









110 Position Autosampler



Separate Water and Soil Needles to Prevent Cross-Contamination





4 Prong Gripper



4 Channels for 2 Internal Standards and 2 Surrogates





Magnetic Stirrer for Water and Soil Samples



PEEK Sample Pathways





Independent Water and Soil Pathways



Precision Syring for 5 and 25 mL Samples

Additional 8500A Features

- **Optional Chiller Tray**
- **Built-In EPA Methods**
- **Automated Sample Dilution**
- **No Cold Spots and No Active Sites**
- **Automated Calibration Standard Preparation**
- **Pre-loaded Autosampler Calibration Coordinates**
- **Choice between Water Rinse and Methanol Extraction**
- **Equipped with EPC to Deliver a Precise, High Speed Injection for Internal Standards**

Product Specifications

8500A Max Temperatures

- 00A Max Temperatures
 Soil Needle Oven 180°C
 Soil Transferline 350°C
 Soil Cup 150°C
 Hot Water Rinse 95°C

 8500C Max Temperatures
 Valve Oven 350°C
 GC Transferline 350°C
 Wet Trap 300°C
 Analytical Trap 300°C
 Sparge Vessel Heater 90°C

8500C option

Dual N_o and He MFC

Product Dimensions

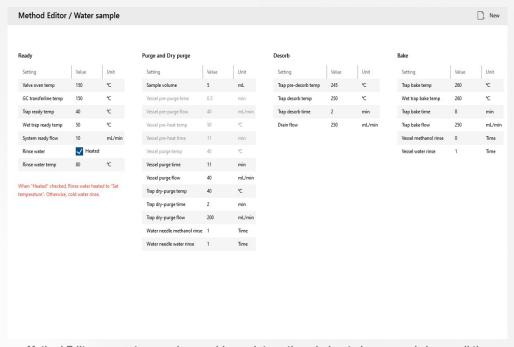
	Autosampler Dimensions	Concentrator Dimensions	
Height	36" (91 cm)	20" (51 cm)	
Width	21" (53 cm)	7" (18 cm)	
Depth	24" (61 cm)	14" (36 cm)	
Weight	80 lb (36 kg)	40 lb (18 kg)	
Line Voltage	115V or 220V		



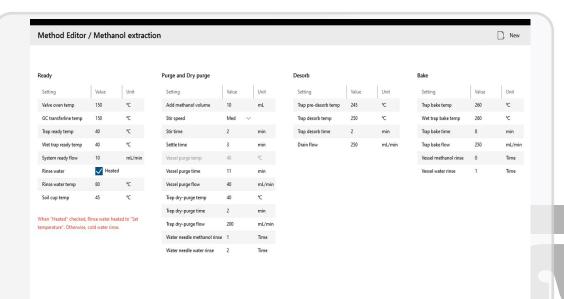
8500 User Interface



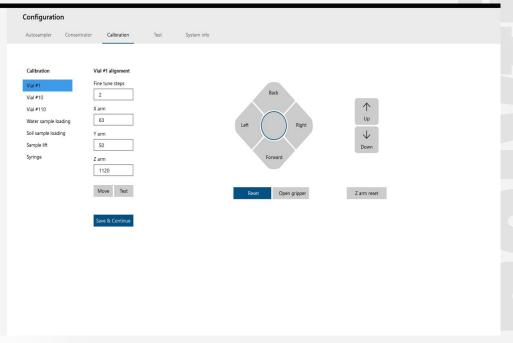
The homescreen of the 8500 uniquely provides real-time updates on system health for communications, system pressure, purge gas, and active module configuration.



Method Editor was water samples provides an interactive window to browse and change all the critical parameters needed for analysis. Once saved, this method is easily added to the 8500 dynamic sequence table.



Method Editor also has dedicated windows for water water rinsing and methanol extraction (shown above) as well.



A simplified calibration screen makes it wasy to calibrate all the key positions on the 8500A autosampler. Each system is delivered pre-calibrated to eliminate the hassle of calibrating during installation.



CDS Analytical's 8500C focusing trap is made of stainless steel and inert coated to remove any active site. A laser printed arrow is marked on the body to show the trap direction in installation.

Part Number	Description	Inert Coating	Size
30E2-5113	Туре Х	Yes	1/8" x 11 1/4"
30E2-5114	Type K (Vocarb 3000)	Yes	1/8" x 11 1/4"
30E3-5063	Tenax TA	Yes	1/8" x 11 1/4"
30E3-5069	3% SP-2100/Tenax TA	Yes	1/8" x 11 1/4"



Thermal Desorption

Pyrolysis

Purge and Trap

CDS Analytical Headquarters: