

Eclipse 4760 Purge & Trap Sample Concentrator

HIGH-PERFORMANCE INSTRUMENT FOR ACCURATE, RELIABLE VOC ANALYSIS



The Eclipse 4760 Purge & Trap Sample Concentrator combines our 30+ years of VOC experience in one highly-productive instrument.



Remove more than 96% of water during desorption with our Cyclone Water Management system



Prevent system contamination with foam sensing and purge abort technologies



Infra-Sparge Sample Heater ensures consistent sparge vessel temperature conditions for improved compound recoveries and %RSDs

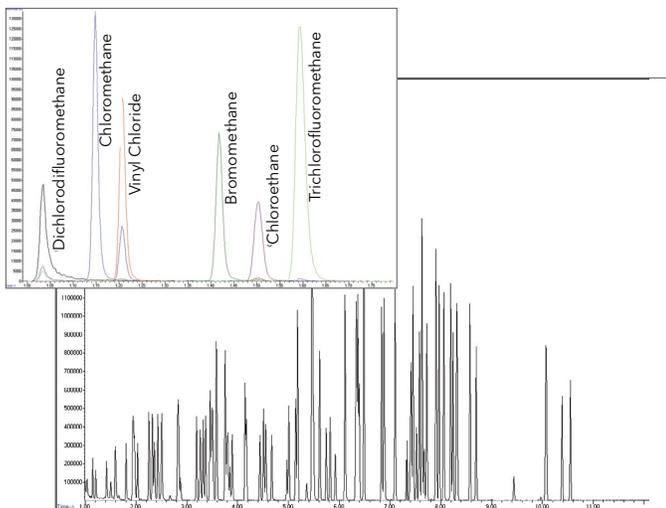
Use in conjunction with our Model 4100 Water and Soil Sample Processor or Model 4551A Autosampler to further increase sample throughput and lab productivity.

Eclipse 4760 PURGE & TRAP SAMPLE CONCENTRATOR

Operating Principle:

The Eclipse purges VOCs from liquid, solid, or gaseous matrices using a regulated flow of inert gas for a fixed time period. Analytes stripped from the sample (or transferred from an autosampler) concentrate onto a sorbent trap specific for the application. The trap heats rapidly, desorbing the analytes as a “plug” onto the GC column using a reversed carrier gas flow. The water management fitting removes the trapped water, minimizing the chance of introducing excess moisture into the GC.

Feature	Specifications
Dimensions	48.9 cm H x 18.4 cm W x 45.76 cm D (19.25" H x 7.25" W x 18" D)
Weight	16.3 kg (36 lbs)
Power requirements	115 VAC ±10%; 50/60 Hz; 230 VAC ±10%; 50/60 Hz; 750 VA maximum
Gas requirements	UHP He or N2
Safety/EMI Certifications	
Safety	LVD 2006/95/EC EN61010-1:2010 3rd
EMC	Directive 2004/108/EC EN61326-1:2013 CISPR 11:2009 and A1:2010
RoHS	Directive 2011/65/EU



The Eclipse was used to prepare a chromatogram of an expanded list of USEPA Method 8260 standard. It illustrates superb chromatographic performance with baseline resolution for all light gases and polar compounds, even with high-speed columns.

Options	
Foam Buster Foam Sensor Spurge Overfill Sensing (SOS) Infra-Sparge Sample Heater Air-Tube Desorber Accessory On-Trap Injection Port Autosamplers	
Spurge vessel	5 mL standard, 10 mL and 25 mL optional
Autosampler (options)	4551A (water samples) 4100 (water/soil samples)
Standard injection (options)	LV-20
Trap	3.175 mm O.D. x 2.227 mm I.D. (0.125" O.D. x 0.105" I.D.)
Trap heating	Direct resistance heating
Trap temperature	Programmable ambient to 450 °C in Purge, Desorb, and Bake steps
Trap cooling	>240 °C/minute (200 °C to 30 °C in <50 sec)
Water management	Eliminates >96% of trapped water, Maximum temperature: 240 °C Cool down temperature: ambient +1 °C
Sample transfer line	1/16" x 48" standard (60" optional)
Sample transfer line temperature	Programmable ambient to 295 °C
Communications	USB to RS-485 adapter cable
Software	
Operating system	Windows® 10 and 11
Operator interface	Windows-based graphical user interface
Available languages	English
Software	
US 5,250,093 5,261,937 5,337,619 6,894,784B2	

OI Analytical, a Xylem brand
1725 Brannum Lane
Yellow Springs, OH 45387

+1.979.690.1711
xylem-lab@xylem-inc.com
ysi.com



ysi.com/4760

Microsoft® and Windows® are registered trademarks of Microsoft Corporation.; Teflon® is a registered trademark of E.I. DuPont de Nemours, Inc. OI Analytical® is a registered trademark of Xylem, Inc. or one of its subsidiaries.