

LUMIN

Purge and Trap Concentrator

- Electronic Mass Flow Controller allows for use with either Helium or Nitrogen. The ability to vary flow rates in different modes which increases sample throughput
- Ultra-low carryover
- New Moisture Control System (MCS) reduces moisture by up to 60% over previous models
- Proprietary trapping material allows for excellent desorption efficiency
- Automated leak checking
- Sample logging ensures data integrity
- Foam detection and prevention options
- Software control allows for built-in diagnostics and self-testing

Product Description

The Lumin Purge and Trap Concentrator utilizes an electronic Mass Flow Controller that delivers extraction gas to the sample, thus stripping the VOCs and delivering them to a sorbent trap. The trap is then heated and back-flushed to a GC for separation and subsequent detection. The system then automatically performs a clean-up step, allowing for the next sample analysis.

Methods

- USEPA 502.1, 502.2, 524.2, 524.3, 524.4, 503.1, 601, 602, 603, 624, 8010, 8015, 8020, 8021, 8030, 8240, 8260
- ASTM and Standard Methods
- Massachusetts VPH and GRO Methods



Lumin Specifications

Cycle Time:	Less than 15 minutes
Trap Furnace:	Ambient to 350°C
Trap Cooling:	Cools from 250° to 40°C in 70 seconds
Sample Pathway:	Inert coated tubing and fittings. Transfer line heated up to 250°C
Sample Heater:	Optional heater capable of up to 90°C
Maximum Sample Concentration:	1ppm. High level samples should be prescreened with HT3 Headspace sampler
GC interface:	Interfaces to virtually all commercially available GC instruments.
Column Compatibility:	0.18 to 0.75mm ID. Recommend 20m x 0.18mm ID Fast Volatiles columns
Valving:	24VDC motor-actuated 6 port valve. Temperature controlled up to 250°C.
Sample Glassware:	5mL frit sparger standard. Optional 25mL frit sparger, 5 or 25 mL needle sparger, and 25mL disposable test tubes.
Data Input:	Lumin TekLink™ PC software communicates via USB.
Electronic Mass Flow Controller*:	System is capable of controlling flow rates from 5mL/min to 500mL/min. Each mode is independently controlled, via the Lumin TekLink™ software interface.
Electronic Pressure Monitor:	Automatic leak check and over-pressure sensing capability.
Voltage Requirements:	100/115 VAC +/- 5%, 50/60Hz, 10 amps, 1150 watts 220/240 VAC +/- 5%, 50/60Hz, 5 amps, 1150 watts
Gas Requirements:	99.999% He or N ₂ gas at 50 -100psig
Unit Dimensions (HxWxD):	17.2" x 8.9" x 18.7"
Weight:	27lbs
Operating Conditions:	System is capable of operating in a temperature range of 10 - 30°C and a humidity range of 10 - 90%
Corrosion Resistance:	The front cover is corrosion resistant to waters with a pH range of 1 -10.

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*Covered by patent US 7651866.