

7650-L20
– GC Gas Autosampler –

Permanent Gases, Volatiles, & Semi-Volatiles Automated Analysis



See What's Really There™

7650-L20 GC Gas Autosampler

Enjoy the benefits of the 7650-L20 in your laboratory:



- Automation of Tedlar bags, Silonite MiniCans, HDS Personal Monitors, and Bottle-Vac vacuum samplers.
- Permanent Gases
- Volatiles & Semi-Volatiles Analysis (C1 - C20)
- Reduced Sulfur compounds to low PPBv Levels by GC/CLD
- Single sample inlet heated up to the point of sample contact
- Elimination of multiple sample lines that can become contaminated
- Oven option to heat sample containers to increase molecular weight range recovered (MiniCans or Bottle-Vacs)

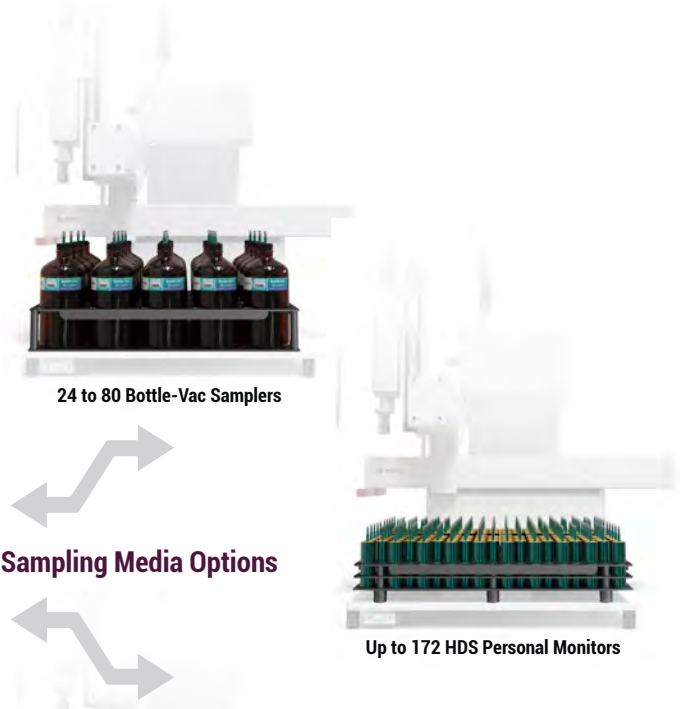
7650-L20 System

The Entech 7650-L20 is the only system handling automated injection of Tedlar bags and other gas phase samples using a single inlet robotic autosampler. The 7650-L20 can automate the analysis of up to 16 Tedlar bags, or 24 to 80 Bottle-Vac samplers or MiniCans depending on the size of the canister or Bottles. Canisters and gas sampling Bottle-Vacs can be heated prior to analysis to extend the molecular weight range of recoverable compounds, allowing a reliable way of measuring heavy volatiles or semi-volatiles. The dual loop system simultaneously injects an Internal standard along with the sample or calibration standard to support internal standard calibration methods. A 100% Silonite coated ceramic pathway ensures recovery of difficult compounds, creating the most comprehensive technique available for the quantitative measurement of organic compounds in gas phase samples. The 7650-L20 can automate the injection of gas samples to virtually all GCs by using the model specific communication cables available from Entech.

All other systems for the analysis of Tedlar bags use a rotary valve and individual lines that can suffer from contamination and carryover due to long exposure times, dead volume in connective fittings, and plastic rotors in the rotary valves. The 7650-L20 uses a single inlet that makes only momentary contact with the sample when drawing a sample through a calibrated loop for injection into a GC. This line is then immediately flushed to minimize exposure times. The unique inlet allows a 1/16" ceramic coated stainless steel tube to be inserted right into the sample fitting, called a Micro QT valve, that is heated right up the point of sample contact. By inserting the 1/16" continuous tubing right into the sample valve on the Tedlar bag, MiniCan, or Bottle-Vac, all dead volume and cold spots are eliminated. This ensures a clean, contamination free solution well into the semi-volatiles range. Entech has perfected this technology over the past 15 years, and no other system on the market has been designed with these capabilities.



18 to 80 Minicans



24 to 80 Bottle-Vac Samplers

Up to 172 HDS Personal Monitors

Sampling Media Options



Up to 16 Tedlar Bags

7650-L20 with oven.

7650-L20 without oven.

Position A
Short Tray

Oven

Position A
Long Tray

Position B
Long Tray

Position B
Long Tray

DESCRIPTION	PART #	UNIT
7650-L20 Autosampler	7650-L20	EA
SmartLab™ II – USB Cable (2m)	12-51120	EA
7650L-20 – 220-240VAC/50Hz	7650-L20-HV	EA

* Optional Items – Contact Entech for more information and configurations.
Please specify GC type when ordering to obtain correct READY/START cable.

DESCRIPTION	PART #	UNIT
Sample Oven	HS-OVEN-407-1	EA
Oven Reducing Bushings		
125mL Bottle-Vac Bushing	19-76525	EA
250mL Bottle-Vac Bushing	19-76535	EA
500mL Bottle-Vac Bushing	19-76545	EA
1L Bottle-Vac Bushing	19-76555	EA
50mL HDS Personal Monitor	19-76565	EA
100mL/200mL MiniCan	19-76570	EA
450mL/600mL MiniCan	19-76580	EA
1L MiniCan Extender	19-76585	EA

Height: 38" (44" height with transfer line clearance)
Width: 23.5"
Depth: 27"

Fuses
120V Systems
15A Main
8A Heater/Valve
240V Systems
8A main, 6A Heater/Valve

Wattages
125W Main Transfer line heater
75W Gripper
85W Mandrel/Loop
70W 7200/GC Transfer line heater

DESCRIPTION	POSITIONS	PART #	UNIT
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Long Sample Handling Trays – (7650)

Silonite™ HDS™ Personal Monitor	86	HS-LT119-086	EA
100mL / 200mL Silonite™ MiniCan™	53	HS-LT158-053	EA
125mL Bottle-Vac™	40	HS-LT197-040	EA
250mL Bottle-Vac™	24	HS-LT248-024	EA
450mL and 600mL MiniCan™	18	HS-LT280-018	EA
500mL Bottle-Vac™	18	HS-LT301-018	EA
1L Bottle-Vac™	10	HS-LT384-010	EA
1L–1.4L Silonite™ MiniCan™	10	HS-LT407-010	EA
16-Position Tedlar® Bag Tray	16	HS-LTTB-016	EA

Short Sample Handling Trays – (7650)

HDS Personal Monitor Tray	50	HS-LT119-050	EA
100mL / 200mL Silonite™ MiniCan™	32	HS-LT158-032	EA
125mL Bottle-Vac™	24	HS-LT197-024	EA
250mL Bottle-Vac™	15	HS-LT248-015	EA
450mL and 600mL MiniCan™	11	HS-LT280-011	EA
500mL Bottle-Vac™	18	HS-LT384-011	EA
1L Bottle-Vac™	6	HS-LT384-006	EA
1L–1.4L Silonite™ MiniCan™	6	HS-LT407-006	EA



7200

Preconcentrator



4700

Precision Diluter



7016D

Canister Autosampler



5400B

Thermal Transfer System



3108D

Canister Cleaning System

*The Recognized Global Leaders
in Environmental Air Analysis.*



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