



IET | International Equipment Trading Ltd.
www.IetLtd.com | *Proudly serving laboratories worldwide since 1979*
CALL +847.913.0777 for Refurbished & Certified Lab Equipment

Tekmar 3100 Sample Concentrator

Specifications

Trap Furnace

Controlled temperature range from ambient to 420°C (-20°C to 420°C with optional TurboCool™). Rise rate 575°C/min.

Trap Pressure Control™

Trap Pressure Control 4 psi relative @ 20 psig system pressure with 35 mL/min flow rate. Enhances chromatographic resolution.

Traps

0.123"±0.002" OD x 12" long x 0.010" wall thickness stainless steel standard, USEPA specified

Sample Path

1/16" OD Silcosteel® tubing and Silcosteel-treated fittings with uniform internal diameters throughout. 60" Silcosteel transfer line heated, variable ambient to 250°C. Optional mount heater controllable from ambient to 100°C. Optional sample pocket and tube heaters variable from ambient to 100°C.

Moisture Control System™

Modular ambient condensate system operating from 5°C above ambient to 320°C.

GC Interface

Interfaces to virtually all commercially available GC instruments. Supplies or accepts GC and Data System start/ready signals via software selectable GC I/O board.

Column Compatibility

0.18 - 0.75 mm (or packed)

Method Storage

Up to 16 methods including pre-programmed USEPA methods 502.2, 524.2, 601, 602, 624, 8000, CLP and Bakeout method.

Method Scheduling

Up to twelve method changes in any sample order on a single automatic cycle of any Tekmar-Dohrmann autosampler.

Valving

115V, motor-actuated 6-port valve with removable rotor, temperature controlled from ambient to 300°C, 12V DC solenoid valves for sample, bypass, HRP, drain, vent and backflush.

Samplers

5 mL frit sparger standard. All glass construction using medium porosity glass frit. Optional 25 mL frit sparger, 5 or 25 mL needle sparger, and 25 mL disposable test tubes. Electronic Control: 68000 Motorola® microprocessor, 12MHz CPU, 128K ROM 64K RAM (expandable to 128K).

Data Input

Input via RS232C using a modular hand-held controller and/or via a PC with the TekLink™ MS Windows™ (3.1 or later) based software package.

Data Display

20 character wide 4 line display on hand-held controller, 20 character wide 2 line SuperTwisted Nematic LC display on instrument.

Output Signals

2 sec contact closure at Purge Ready, Desorb, and Bake, closure at Desorb Ready

Input Signals

288 ms contact closure or TTL at Purge Ready to Purge and Desorb Ready to Desorb. Size: 9" (22.9cm) W x 19" (48.3cm) H x 18" (45.7cm) D

Certifications

ETL, CE, CSA

Requirements

100/115/230 VAC (+/-10%) factory configured, 50/60Hz, 5.0/2.5 amps, 575 watts; 99.999% He or N2 purge gas at 20 psig

Weight

37 lbs (16.8 kg)

WWW.IETLTD.COM



IET | International Equipment Trading Ltd.
www.IetLtd.com | *Proudly serving laboratories worldwide since 1979*
CALL +847.913.0777 for Refurbished & Certified Lab Equipment
IET - Used Lab Equipment - Refurbished Analytical Laboratory Instruments