

NEW - AutoDesorb - Automated Short Path Thermal Desorption

The PC Controlled Automated Short Path Thermal Desorption System is designed for the continuous and unattended thermal extraction of volatile and semi-volatile organics from solid, liquid and gas samples for analysis by GC and GC/MS.

Features

- Automated Thermal Desorption Sample Introduction System
- Carousel holds 12 samples for unattended operation
- Uses the SIS™ Short Path Thermal Desorption technology
- Designed to operate on the Agilent 6890 GC or Agilent 5973/5975 GC/MS also on the Agilent 5890 GC (5971/5972/5973) and on the Thermo TRACE™ GC with the latest software
- PC Controlled Operation - User-friendly Graphical Interface
- Fully integrated with the Agilent ChemStation™ Software
- Fully integrated with the Thermo TRACE GC operating under Xcalibur™ software
- No “memory effect” - individual flow path for each sample
- Mounts ovetop the GC injection port
- Not permanently installed to the GC - easily removable
- Permits the analysis of volatile and semi-volatile organics
- Uses P&T Thermal Desorption & Direct Thermal Extraction Techniques
 - Desorb samples at temperatures from room temperature up to 450°C either isothermal or with multi-step ramp rates up to 100°C/minute
- Glass Lined stainless steel desorption sample tubes are inert and strong for sample handling
- GC Cryo-Trap Accessory for cryo trapping volatiles during desorption
- Versatile Technique - hundreds of applications - see page C42



AutoDesorb Tower and Electronics Console

AutoDesorb - Automated Short Path Thermal Desorption

The new AutoDesorb System is the automated version of the patented SIS “Short Path Thermal Desorption System”. It is designed for the automatic and unattended pickup, injection and thermal extraction (thermal desorption) of volatile and semi-volatile organics from solid, liquid and gas samples for analysis by GC and GC/MS.

The AutoDesorb System consists of the AutoDesorb Tower (which contains the sample analysis hardware), an Electronics Console (which contains a microprocessor and power supplies) and a PC Windows Software Package.

The system is operated and controlled by a PC Windows based software package which operates within the Agilent Technologies ChemStation software on the Agilent 6890 GC or Agilent 5973/5975 GC/MS. It also works with the Agilent 5890 series GC (also Agilent 5971, 5972 & 5973 MSD) operating with the latest version of ChemStation under Windows 95, NT or XP. This provides a seamless integration of the Agilent GC or MSD with the SIS AutoDesorb System. The AutoDesorb is also fully integrated to operate with the Thermo TRACE GC operating under the Xcalibur™ Software

The AutoDesorb Tower sits over the GC injection port, where it is utilized for the direct desorption of both volatile and semi-volatile samples into the GC injection port and column. Due to its “short path” of sample flow, this system overcomes the limitations of other desorption systems by eliminating transfer lines (which are easily contaminated by samples) and by providing the optimum delivery (and therefore maximum sensitivity) of samples to the GC injector via the shortest path possible, i.e. direct injection into the GC.

The desorption tube with sample for analysis is fitted with a desorption tube needle and attached to a connecting tube. Each connecting tube is sealed at the top with a spring loaded ball seal to prevent sample contamination. A Carousel permits 12 samples to be loaded for the unattended analysis of samples. When signaled by the PC from the GC software, the AutoDesorb system automatically locates and loads the sample, and then using the prescribed desorption method, injects and desorbs the sample into the GC. Samples can be run in any sequence using any previously saved method as specified by the Agilent ChemStation or Xcalibur GC software.