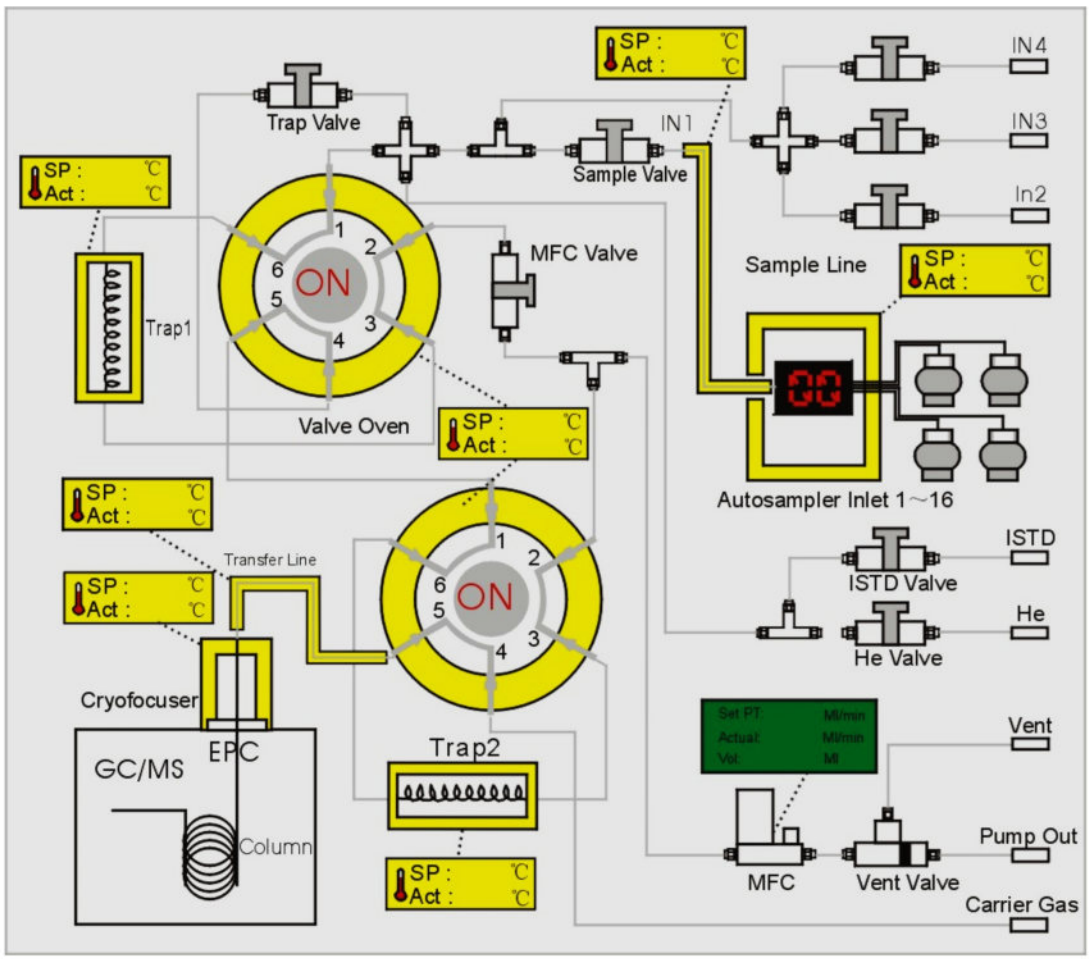
Delivering the right results of VOCs

Nutech 8910 Preconcentrator

The 8910 has the most advanced hardware and software with unique features for the analysis of compounds listed in EPA Methods TO-14 and TO-15. Functionality and longevity were the main goals in the development of Nutech®'s preconcentrator.

Technical Data

Detection limit	0.1ppbv
Loading range	4-2000ml
Concentration ratio	>1000:1
Temperature control	±2°C accuracy
RSD	< 5% for most VOC compounds with a sample
Heating rate	10000°C/min
Operating environment	110v/60hzor 220v/50hz with max 1500w 0-40°C/90% RH operating range
Three stage cryogenic traps	Glass bead: -190°C to 250°C Tenax multimedia trap: -190°C to 250°C Cryofocuser: -190°C to 250°C



Features

Strong Practicability and Wide Application Range

EPA TO-14/15

The 8910 adopts classical 3-stage module (two cryogenic traps and one cryofocuser) and new generation of advanced H_2O&CO_2management technology, its preset TO-15, PAMS and sulfide analysis methods can fullymeet the requirements of US EPA method without any changes or accessories upgrades, and elevates the preconcentrator to a whole new level.

The 8910 adopts vacuum negative pressure for automatic suction and injection, MFC operating range 5-120ml/min with ±2% accuracy with an optional customized flow range . Its ultra-wide injection range (4-2000 ml, with quantitative ring injection valve, the minimum injection volume can be as low as 0.2ml), easily meets the pretreatment requirements of different sample volumes.

MFC

High Sensitivity

It has a concentration rate of more than 1000 times and effectively raises the detection limit of GC or GC-MS.

The advanced temperature control keeps the variation under ±2°C, assuring stable and accurate analysis.

The pipeline, valve and other flow path components are inert, durable and corrosion-resistant, eliminating unwantedcarryover and chemical reactions, minimizing sample contamination and ensuring complete recovery.

High Automatic, Powerful Software

The software is powerful, user-friendly and easy to operate. The system has the ability to perform automatic leak checking, generate reports, and alarm errors automatically. It can automatically display operation status, record process data, and supports QC/QA report printing.

Good Compatibility, Powerful Extended Function

The 8910 is highly flexible for users to establish a new analytical method based on the presupposed standard analytical method according to the application needs. It is compatible with different types of GC or GC-MS in the market, can be used independently or connected to the automatic sampler.

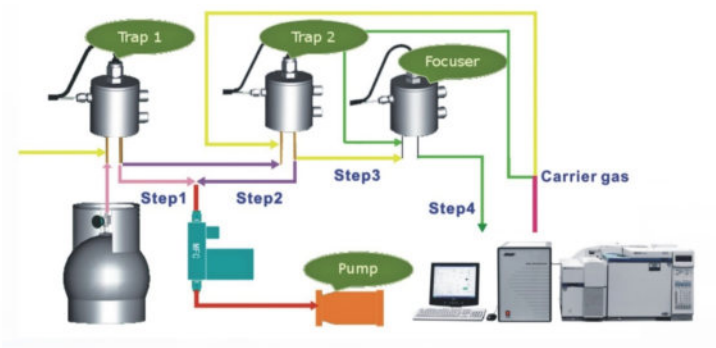
Tedlar®

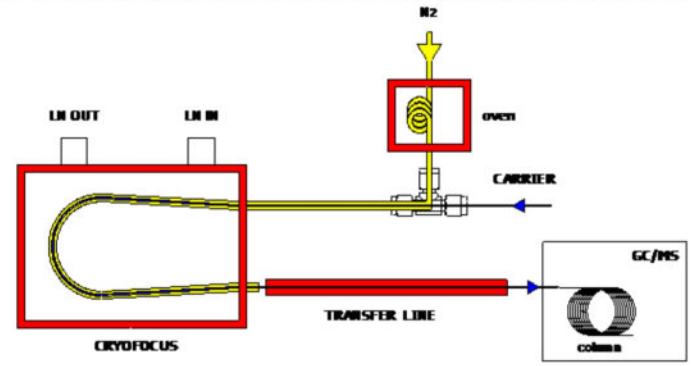
Long-term Stable Operation

Internal structure optimization module design, effective isolation of temperature control module and sensitive components, liquid nitrogen valve external, effectively avoid abrupt change in temperatue and condensate interference or even rust on electronic components, to ensure long-term stable operation of the instrument.

The small volume trap is designed, so that its temperature and liquid nitrogen flow control mode are optimized. The liquid nitrogen loss is small and the replacement is convenient.

3-Stages H_2O&CO_2 management technology:





❶ Control Trap 1 temperature and transfer parameters to retain part of water in Trap1 during Trap1 to Trap 2 transfer.

❷ Control Trap2 material property and temperature to avoid water and CO_2 being trapped.

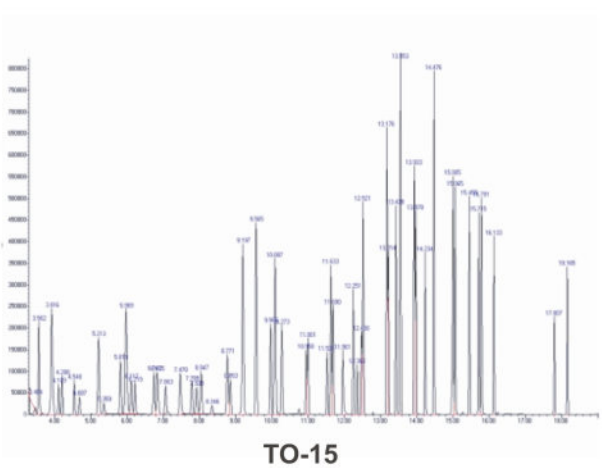
❸ **Focuser Heating Injection control:**

a.N_2 is preheated in the oven.

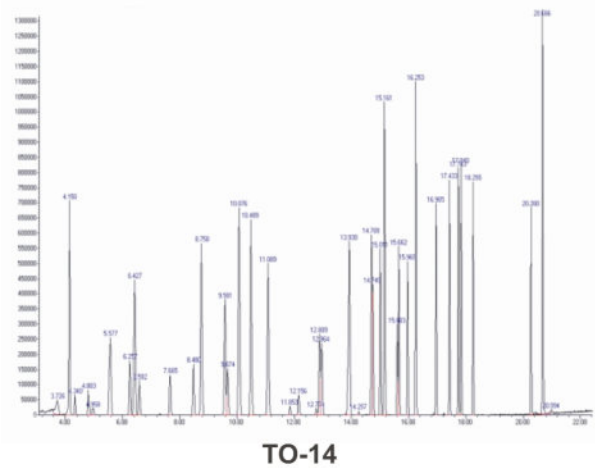
b.Heated N_2 goes through the outside of the focuser column to generate rapid heating rate (Over 10000°C/min).

c.Water is partially retained in focuser and can be removed with second heating clean process as an optional step at end of GC run.

Chramatogram



TO-15



TO-14

Nutech®

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