

T2 Intelligent Thermodesorber

Application

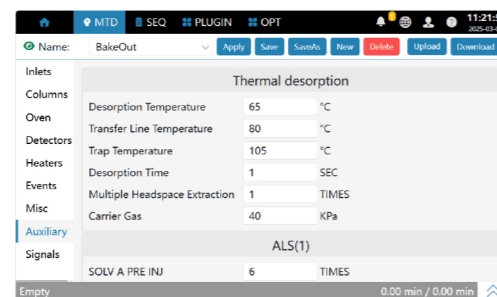
- Environmental monitoring
- Interior decoration
- Construction engineering testing
- Flavor analysis
- Occupational health
- Drug residue analysis
- Vehicle exhaust analysis
- Packaging materials testing



An automatic thermal desorber is actually a combination of technologies. It extracts and concentrates volatile substances from complex matrices for analysis by GC or GC/MS. For gas samples (such as air), a convenient method is to draw a known volume through a thermal desorption tube filled with one or more adsorbents. In other words, air can be drawn into an evacuated container. Other samples (such as polymers, food, packaging materials, etc.) can be directly placed into a thermal desorption tube or a larger container.

It is suitable for the analysis of volatile and semi-volatile organic compounds in air and materials compatible with gas chromatography, including air, semiconductor materials, polymers, interior decoration, furniture packaging materials, drugs, and flavor analysis and detection, etc. The analysis scope can cover organic compounds with volatility greater than n-C40 and a small amount of inorganic substances.

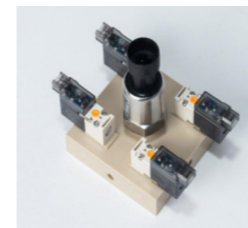
When work with the Mx series GC/GSMS, all parameters of the T2 can be directly edited through the method interface of the Mx. The operation sequence for sample pre-treatment can also be directly edited together with the GC method, eliminating the need for independent installation and operation of dedicated software.



TD software UI in uniLite

Technical Features

- 24 sample positions
- Primary Desorption: From room temperature + 5°C up to 350°C
- Secondary Desorption Temperature: Ranging from room temperature + 5°C to 350°C, with a heating rate of no less than 3000°C per minute
- Valve Box Temperature: From room temperature + 5°C to 280°C
- Sampling Tube Dimensions: 6.35mm in diameter and 90mm in length
- Backflushing and Cleaning Flow Rate: Adjustable continuously within the range of 0- 200ml/min
- Timing Error: No more than 0.01% can be directly retrieved for use each time



Electronic flow gas path control module

This matured module offers high-precision control of gas flow in the TD. It ensures stable performance, accurate flow regulation, and has a fast response, enhancing overall system reliability.



Extremely low operating costs

There is no need for needle insertion or cap removal. Our patented sealing method eliminates the troubles of bent, broken, clogged or jammed injection needles. Users also don't need to replace the injection septum, achieving zero consumables for instrument operation.



Injection with a patented "bidirectional extrusion method"

The injection is carried out in a non-destructive extrusion way. Pre-leak detection is performed on all samples, effectively protecting the samples. It can effectively prevent the injection septum from contaminating the experiment.



One-piece cooling module

It features reliable airtightness, preventing the formation of condensed water due to alternating high and low temperatures. Multiple temperature protection measures ensure safe, reliable and stable operation.



Standard UI with uniLite

When working with Mx series GC, the H2000 can be programmed via UniLite software on GC/GCMS side directly. By doing that, user can either use the touchscreen on Mx GC, or simply use standard web browser. Also, the method of TD can be integrated into GC's method seamlessly, which will boost user's efficiency greatly.

