

DW-EXPEC236

Full-automatic Headspace Sampler

Introduction

DW-EXPEC236 full-automatic headspace sampler is a pretreatment device that puts the sample to be tested in a sealed constant temperature system for gas-liquid or gas-solid balance, and sends the balanced components to be tested to chromatographic analysis. Based on the new design of static headspace pressurization technology, it realizes the solvent-free and efficient extraction of liquid samples and solid samples.

DW-EXPEC236, with the functions of automatic leak detection/multiple extractions/multiple injections, is simple to operate and convenient to maintain, thus improving the pretreatment efficiency of complex samples in all directions, capable of meeting the testing needs of various industries such as environment, cosmetics, materials, justice, health, petrochemical, tobacco and food.

The instrument is mainly composed of an automatic sampling system, a headspace analysis system, and a data recording and processing system. The sample to be tested, after being placed in the sample position, is grabbed to the injection position by XYZ three-axis sample injector. After the sample is heated and pressurized for a certain time, the automatic injection process is controlled by the system.

Basic principles

Headspace injection is a convenient and quick sample pretreatment method in gas chromatography. The principle is that the sample to be tested is placed in a closed container, and the volatile components are volatilized from the sample matrix by heating, reaching equilibrium in gas and liquid (or gas and solid) phases, and the top gas is directly extracted for chromatographic analysis, so as to analyze the composition and content of volatile components in the sample. Headspace sampling technology can avoid tedious sample pretreatment process, avoid the interference of organic solvents on analysis, and reduce the pollution to chromatographic column and injection port.



DW-EXPEC236



DW-EXPEC236 plus

Features

1. High sample throughput
2. Full inert treatment of the flow path
3. Full process high temperature design
4. Machine reinforcement design
5. Any combination
6. Precision control

Applications

Can be used with GC/GC-MS

Medicine, cosmetics, public security investigation, environmental science, energy, material science, light industry packaging, food science, etc.

Specifications

Item	Indicator
Sample cooling	Double cooling position design
Temperature setting	Room temperature +5℃~300℃
Transmission line temperature	Room temperature +5℃~300℃
Valve box temperature	Room temperature +5℃~300℃
Priority position	3 positions
Pressure control	EPC control
Quantitative volume	0.1mL, 0.5mL, 1mL and 3mL for option
Calibration function	With automatic calibration function
Leak detection mode	Automatic leak detection
Automation form	XYZ three-coordinate form
System function	Instrument alarm, maintenance log, etc.
Auxiliary function	5-stage sample oscillation function/overlapping heating/multiple extractions
Repeatability	1.5% RSD
Transmission line	Connected with GC injection port to realize tool-free quick disassembly and 360° protection sleeve
Gas type	Nitrogen/Helium
Communication mode	LAN
Operating power supply	AC 220V±10%/50Hz
Power	≤800W

