DRAWELL
Artist of Science

UHPLC DW-EXPEC5180

Ultra High Performance Liquid Chromatography

Introduction

DW-EXPEC5180 ultra-high performance liquid chromatography is a new generation ultra-high performance liquid chromatography system developed for the trace organic components analysis. It has industry-leading performance. This instrument has the characteristics of fast analysis speed and low solvent consumption, and can significantly improve the efficiency of large batch sample detection and analysis.

The DW-EXPEC5180 ultra-high performance liquid chromatography includes a high-pressure mixing binary pump with a max pressure up to 20,000 psi, provides ultra-low dwell volume and high-precision gradient. The CDS software supports stand-alone/network deployment and ensure data security and compliance. Suitable for industries such as food, chemical, pharmaceutical, and environmental applications

Work Environment

1. Operation temperature: (15℃-35℃)
2. Operation humidity: (35~80)% RH, no condensation
3. Power supply: single-phase power (220±20) V AC, 10A, 50 Hz

Features

Ultra-high performance liquid chromatography workstation software:

● 1. Windows 10 and better operating platforms. The software can control the parameter settings of each component of liquid
chromatography, and has built-in data processing and report editing functions;
it can automatically realize functions such as instrument function configuration, condition optimization, automatic quantitative function, chromatographic data analysis, and spectral library creation;

● 2. The software has functions such as automatic calibration and instrument status monitoring;

● 3. The operating software can be installed on a personal computer, and sample analysis data can be processed offline using this software and reports can be generated.

Applications

Food

Chemical

Pharmaceutical

Eenvironment

Specifications

1. ULC 580 ultra -high pressure binary gradient pump	
Solvent switching	**Through solvent selection valve switching, one of each of the two solutions A1, A2 and B1 , B2 can be selected as the system mobile phase**
Solvent degassing	**built-in vacuum degasser, pump A/B binary channels each have independent degassing channels**
Flow range	**0.010-2.0 mL/min, supports binary gradient method editing**
Maximum pressure	**≥20000 psi**
Flow rate accuracy	**± 1.0% @0.5 mL/min**
Flow rate precision	**≤0.07%RSD or 0.01 min , whichever is greater**
Dimensions (length × width × height)	**570 mm × 330 mm × 255 mm**
Weight	**about 23 kg**
2. AS 580 ultra -high pressure automatic sampler	
Injection mod	**Full loop injection, partial loop injection, microliter injection.**
Sample loop	**100 µL (standard configuration), other volumes are optional**
Injection volume	**full loop injection 100 µL partial loop injection 0~50 µL microliter injection 0~27 µL**
Injection repeatability	**<0.3%RSD (full loop injection)**
Carryover	**<0.05%**
Maximum sample capacity	**2*48-bit 1.5ml vials or 2*96-bit multi-well plates or 2*384-bit multi-well plates**
Dimensions (length × width × height)	**570 mm × 330 mm × 360 mm**
Weight	**about 19 kg**

Configuration

1. 1 ULC 580 ultra -high pressure binary gradient pump
2. 1 AS 580 ultra-high pressure automatic sampler (optional refrigeration component)
3. 1 DAD 580 diode array detector
4. 1 CH 582 column oven
5. 1 ET 580 solvent tray
6. 1 Chromatography software