

Smartline

► CHANCE®



The smallest HPLC system ever

CHANCE is the ideal HPLC system for many basic separation tasks where simple operation is desired and where space is at a minimum.

The system is perfect for ...

- isocratic HPLC applications using UV detection at 254 nm
- semi-preparative LC purification tasks
- educational purposes

A complete isocratic HPLC system, consisting of a pump capable of 400 bars, equipped with pressure sensor and a 254 nm UV detector, fits into a housing of just 23 x 14 x 39 cm, making it one of the most compact HPLC systems in the world. For purification tasks, the same housing can even accommodate an additional fractionation valve and the pump can be equipped with a 50 ml/min pump head to form a semi-preparative LC system.

Typical analytical configuration ...

- Smartline Pump 100 with pressure sensor and 10 ml/min stainless steel pump head
- Smartline UV Detector 200 with 10 mm flow cell
- manual injection valve equipped with 20 µl stainless steel sample loop

Based on KNAUER's modular Smartline/Assistant concept, the CHANCE system can be easily expanded to support high pressure gradients, automatic injection and even other detection principles.

The CHANCE HPLC system can be completely controlled without software (stand-alone) or with KNAUER's full-featured ChromGate® chromatography data system, or our easy-to-use ClarityChrom® software. Both software packages are available in analytical or preparative versions.

Technical data

System	
Power supply	90–260 V, 47–63 Hz
Dimensions (W×H×D)	226 x 135 x 410 mm (manual injection valve adds 100 mm width)
Weight	6.0 kg (A5004V15)
Injection	manual full loop injector 20 µl, deviation < 1%
Autosampler	optional
Pump 100 with 10 ml/min pump head	
Delivery system	dual piston pump with one working piston, one auxiliary
Piston washing	available
Pump head	10 ml/min (50 ml/min optionally available), stainless steel inlays
Flow range	0.05–10 ml/min
Max. delivery pressure	400 bar (40 MPa), built in pressure sensor
Flow rate accuracy	deviation ≤ 1.0% (1 ml/min, 12 MPa)
Flow rate precision	RSD ≤ 0.1% (1 ml/min, 12 MPa)
System protection	P _{min} und P _{max} programmable
Control	digital: RS-232, LAN; analog: remote control strip, touch pad
GLP function	detailed report
UV Detector 200	
Wavelength	fixed at 254 nm
Lamp	mercury vapor lamp
Flow cell	10 mm, 10 µl (other path lengths and volumes are available)
Noise*	< 3 × 10 ⁻⁵ AU, 1 s
Drift*	< 1.5 × 10 ⁻⁴ AU/h *according to ASTM E1657-94
Linearity	up to 1.2 AU, deviation < 0.5% at 1 AU
Time constants	0.05/0.2/1.0/2.0/5.0 s
Software ClarityChrom®	
Operating system	Windows 2000, XP and Vista in any language version
GLP	FDA 21 CFR Part 11 compliance, system IQ, OQ, PQ
Integration	27 integration parameters (peak width, threshold, etc.), automatic reintegration
Calculation types	with and without calibration (internal and external standard method)
Automation	sequences, automatic launch of selected applications
Reports	custom protocols, print preview option, printing to PDF file

Ordering information

Order no.	HPLC system CHANCE€, isocratic
A5004V15	Smartline Pump 100, 10 ml/min pump head (stainless steel inlays), pressure sensor, Smartline UV Detector 200, 10 mm flow cell, manual injection valve
	HPLC system CHANCE€, gradient
A5004V17	2 Smartline Pumps 100, 10 ml/min pump head (stainless steel inlays), pressure sensor, degassing unit, Smartline UV Detector 200, 10 mm flow cell, automatic injection valve
	HPLC system CHANCE€, semi-preparative
A5004V13	Smartline Pump 100, 50 ml/min pump head (stainless steel inlays), pressure sensor, Smartline UV Detector 200, 2 mm flow cell, 16 port fractionation valve, manual injection valve

Technical data are subject to change without notice.

Visit www.knauer.net for details on complete HPLC systems, HPLC columns, and osmometers.

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