

ECS04

QUATERNARY GRADIENT ANALYTICAL SYSTEM WITH AUTOSAMPLER

High effective HPLC system containing **UV-VIS detector, column oven, analytical pump, gradient box and autosampler**. Detector with continuously variable wavelength 190-800 nm and very low noise level offers **high-speed sampling up to 100 Hz**.

Communication of units is through **RS232** or **Ethernet(LAN)**. Additional PC A/D converter card is not required for this system. System contains



autosampler and **Clarity** software. All units are supported in Clarity software from installation.

MAIN PARTS

ECD2800 UV-VIS DETECTOR

Detector with continuously variable wavelength in the range of **190-800 nm** and a noise level $\pm 3 \cdot 10^{-6}$ AU. Unit offers high-speed sampling up to **100 Hz** and wavelength autocalibration. AC 05 analytical cell is included.

ECO2080 COLUMN OVEN WITH HEATING AND COOLING

This column oven allows precise temperature stabilization in the **range 0-80°C**. A big compartment room can accommodate up to **3 columns** with length **up to 25 cm**. Peltier technology offers the possibility of heating and cooling independently from room temperature.

AUTOSAMPLER L-3320

Automatic autosampler ensuring excellent accuracy and linearity of sample injection. Very low sample residue contamination, μ l pick-up mode achieves zero sample loss. Automated selfchecking. Rheodyne valve ensures reliable operation.

ECP2010 ANALYTICAL HPLC PUMP

This isocratic pump works with Gradient Box ECB2004 as a **quaternary gradient pump**. Flow rate range is **0.01-10 ml/min** and pressure limit at **40 MPa**. Unit software includes new learning algorithm for pulsation suppression and many testing and diagnostic functions.

ECB2004 GRADIENT BOX WITH DEGASSER

Box is suited for handling liquids in ECOM gradient systems. It accommodates a container for solvent bottles, built-in high-efficiency **vacuum degasser** and **four-way gradient valve**. Up to four solvent lines may be degassed simultaneously by one unit. Four-way gradient valve is controlled from the pump ECP2010.

CLARITY CHROMATOGRAPHY SOFTWARE

This system is fully controlled by Clarity Chromatography software, which is also a part of delivery. Clarity software complies **CFR21GLP** requirements.



SYSTEM CONTAINS

| Pcs | Description | P/N |
|-----|--|----------|
| 1 | ECD2800 UV-VIS Detector | ADA0000X |
| 1 | ECB2004 Gradient box with degasser | ABA0000X |
| 1 | ECP2010 Analytical HPLC pump | ACA0000X |
| 1 | ECO2080 Column Oven with heating and cooling | AOA0000X |
| 1 | Autosampler L3320 for 2x48 vials | ARA03320 |
| 1 | Clarity – Station for 1 instrument | AP000C50 |
| 1 | Clarity module for HPLC control | AP000A24 |
| 1 | Clarity SW module for AS control | AP000A26 |
| 1 | Accessories for analyt. system series 2000 | ASA00180 |

Note: Column and computer are not included. PC system has to be equipped for handling 3 serial RS232 or 1 Ethernet port at least. Check also Clarity software requirements.