# ECS05

## QUATERNARY GRADIENT SYSTEM WITH AUTOSAMPLER AND PDA

High effective HPLC system containing **UV-VIS PDA detector**, **column oven**, **analytical pump, gradient box** and **autosampler**. Detector with eight channels in range 200-800 nm and very low noise level offers also **high-speed scanning with speed 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.

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### ◼ MAIN PARTS

#### ECDA2800 UV-VIS PDA DETECTOR

Analytical Diode Array Detector measures at eight wavelengths simultaneously or performs full scan with speed up to 100 Hz. 3D support in Clarity SW. Noise level $\pm 5 \times 10^{-6}$ AU. Four analog outputs. Two special mathematical channels are available. AD 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.

#### ECP2010 ANALYTICAL HPLC PUMP

This isocratic pump works with Gradient Box ECB2004B 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.,

#### ECB2004B 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.

**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.

#### CLARITY CHROMATOGRAPHY SOFTWARE

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

#### AUTOSAMPLER L-3320

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

### SYSTEM CONTAINS

| Pcs | Description | P/N |
|---|---|---|
| 1 | ECDA2800 Analytical UV-VIS PDA Detector | ANW0000X |
| 1 | ECB2004B 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 | Module for PDA data Clarity (SW) | AP000A29 |
| 1 | Accessories for analyt. system series 2000 | ASA00180 |
| 1 | Accessories ECOM for AS Rigol L3320/L3320H | ARA00180 |

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