

# 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.

### 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 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.



#### AUTOSAMPLER L-3320

Automatic autosampler ensuring excellent accuracy and linearity of sample injection. Very low sample residue contamination,  $\mu$ l 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	ANW00001
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	Module for PDA data Clarity (SW)	AP000A29
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.