2018

EQUIPMENT FOR ANALYTICAL, PREPARATIVE AND FLASH LIQUID CHROMATOGRAPHY

ECOM
HPLC FROM PRAGUE

HPLC SERIES 2000 includes:

- Gradient Box ECB2004
- Analytical Pump ECP2010
- Column Oven ECO2080
- UV–VIS Detector ECD2600

Check out our brand new TOYDAD and BABYDAD detectors

ANALYTICAL SYSTEMS

Modular Analytical HPLC system includes **PDA Detector** or **UV-VIS Detector**, **autosampler** for 96 vials, **isocratic pump** with flow rate up to 10ml/min works together with **gradient box** with degasser as **gradient pump** and **column oven** with heating/cooling. Communication is through RS232 or LAN. New addition to these units is **ECB2004PC box which has built-in PC.**

Gradient box with degasser ECB2004 or ECB2004PC box with built-in PC

Analytical HPLC pump ECP2010 with flow-rate up to 10 ml/min and pressure up to 40 MPa

Column oven ECO2080 with heating and cooling or ECO2099 with heating only

ECDA2800 PDA scanning detector or ECD2800 / ECD2600 UV-VIS detector with continuously variable wavelength

L3320 Autosampler with excellent accuracy and linearity

Units controlled by Clarity SW

System configuration examples

Equipment	ECS01	ECS02	ECS03	ECS04	ECS05
	ASA0100X	ASA0200X	ASA0300X	ASA0400X	ASA0500X
	Gradient	Gradient	Isocratic	Gradient	Gradient
Detector	ECD2800	ECD2600	ECD2600	ECD2800	ECDA2800
Pump	ECP2010	ECP2010	ECP2010	ECP2010	ECP2010
Column Oven	ECO2080	ECO2099	–	ECO2080	ECO2080
Box	ECB2004	ECB2004	ECB2006	ECB2004	ECB2004
Sampling	Manual	Manual	Manual	L3320	L3320

NOTE:

- For more information and technical specifications see pages 4 and 5.
- This system is controlled by Clarity Chromatography software.
- Ask us for different configuration.

DETECTORS

ECDA2800 UV-VIS PDA Detector

Analytical Diode Array Detector measures at eight wavelengths simultaneously or full scan with speed up to 100 Hz. 3D support in Clarity SW. Noise level $\pm5\times10^{-6}$ AU. Four analog outputs. Two special mathematical channels are available. Wavelength range 200-800 nm. AD05 analytical cell included.

ECDA2800	P/N ANW0000X

ECD2800 / ECD2600 UV-VIS Detector

UV-VIS detector with continuously variable wavelength in range of 190-800 (600) nm and noise level $\pm3\times10^{-6}$ AU controlled by RS232, LAN or keypad. Automatic wavelength calibration using deuterium spectral lines. AC05 analytical cell included.

ECD2800	P/N ADA0000X
ECD2600	P/N ADB0000X

ECD2800 / 2600 EX UV-VIS Detector

Modification of basic ECD2800/2600 unit suited for **external cell** connecting using optical cables with SMA 905 connectors. Noise level $\pm1.5\times10^{-5}$ AU. Wide range of external cells available.

ECD2800 EX	P/N ADAEX00X
ECD2600 EX	P/N ADBEX00X

ECD2800 / 2600 CE UV-VIS Detector

Modification of basic ECD2800/2600 unit suited for **capillary electrophoresis**. Easily replaceable capillary in cell compartment. Noise level $\pm1.5\times10^{-5}$ AU.

ECD2800 CE	P/N ADACE00X
ECD2600 CE	P/N ADBCE00X

L3320 Autosampler

Autosampler for 96 vials with excellent accuracy and linearity of sample injection. Inovated needle design significantly reduces sample residue contamination. Wide range of sample volumes, even µl pick-up mode with zero sample loss.

L3320	P/N ARA03320

AC05 / AD05 Analytical Cells

Standardly included cells with 5 mm optical path length. Cells with optical path length 2 and 10 mm are available on request. Cells are designed with a temperature exchanger which suppresses the temperature changes.
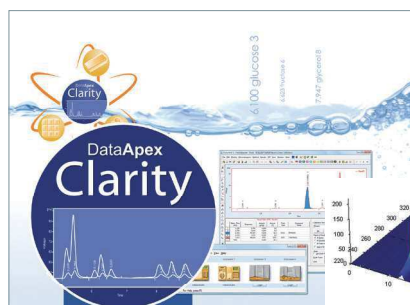
AC05 (for ECD2800 / 2600)	P/N ADA7000X
AD05 (ECDA 2800)	P/N ANW7000X

CLARITY Chromatography Station

Clarity is an advanced Chromatography Data Station with optional software modules for data acquisition, data processing and instrument control. Its wide range of data acquisition interfaces (A/D converters, LAN, USB, RS232) allows connection to any ECOM unit. Single Instrument SW can be extended by SW modules for LC control, AS control, System Suitability Test, PDA Data processing, Single Instrument Add-on and Offline version for data processing.

All ECOM units drivers are included in Module LC Control. Drivers contain **full control** of instruments as well as **diagnostics tools** and are made by ECOM with DataApex supervision that guarantees the highest quality and full integration into the Clarity station.

ECP2010 / ECP2010H Analytical HPLC Pump

Works as isocratic pump, together with Gradient Box also as gradient pump. It has two pump heads connected in series with a piston diameter of 1/8". Unit software includes new learning algorithm for pulsation suppression and many testing and diagnostic features.

Flow rate 0.02–10 ml/min
ECP2010 40 MPa (5800 PSI)
ECP2010H 60 MPa (8700 PSI)

ECP2010	P/N ACA0000X
ECP2010H	P/N ACF0000X

KAPPA10 / KAPPA10PP Isocratic One Piston Pump

Single piston pump suited for column washing and columns regeneration process. Kappa 10PP includes pressure sensor. It is designed with piston diameter of 1/8". Completely new concept of electronic control and drive of pump allows it to be used as a standalone unit.

Flow rate 0.01–10 ml/min
40 MPa (5800 PSI) up to 2 ml/min
20 MPa (2900 PSI) 2.01 to 10 ml/min

KAPPA10	P/N PK00000X
KAPPA10PP	P/N PL00000X

ECB2004 / ECB2004PC Gradient Box with Degasser

Box is suited for handling liquids in ECOM gradient systems. It accommodates container for solvent bottles, built-in high-efficiency vacuum de-gasser and four way gradient valve. Four way gradient valve is controlled via ECP2010 pump. Up to four solvent lines may be degassed simultaneously. ECB2004PC has a built-in PC included inside.

ECB2004	P/N ABA0000X
ECB2004PC	P/N ABAPC00X

ECB2006 Box for solvent bottles

ECB2006 is a simple container for solvent bottles.

ECB2006	P/N ABC000X

ECO2080 / ECO2099 Column Oven

Peltier heating/cooling column oven (0-80°C) with a big compartment room can accommodate up to 3 columns with length up to 25 cm. Unit is controlled via keypad, RS232 or LAN Interface.
Column oven can be also supplied with heating only, temperature range up to 99°C as ECO2099.

ECO2080	P/N AOA0000X
ECO2099	P/N AOB0000X

These graphs show linear and stepped gradient (10 % steps and at the beginning and end 1 %) performed on HPLC pump ECP2010 and gradient box ECB2004. This is used for measuring and testing performance criteria such as accuracy and reproducibility of solvent delivery system in production.