

ECP2100

PREPARATIVE HPLC PUMP

This pump works as **isocratic** pump and together with **Gradient Box ECB2005** also as **gradient** pump.

Gradient Box ECB2005 is equipped with **four-way gradient mixing valve** and is ordered **separately**.

With a flow-rate of **0.1-100.0 ml/min.** and a pressure limit at **15 MPa** is this pump suited for **preparative** applications in liquid chromatography. It is designed with main and auxiliary pump heads connected in parallel with a piston diameter of 3/8".

New sophisticated unit allows achieving a precise **low-pressure gradient**, i.e. gradual changes of solvent composition by mixing **up to four liquids** at the pump's entry. It is also possible to predefine percentage of composition when using the pump in isocratic mode. The gradient profile can be defined from a computer.



There are many improvements which make pump more reliable, safe and precise. Also maintenance is now easier. E.g. pistons exchange is easier because of new construction; new learning algorithm for **pulsation suppression**; leakage sensor etc.

When necessary, it is possible to use **back washing of pistons** (e.g. when using buffered mobile phase).

Pump is supported by **ECOMAC** and **Clarity** software.

SPECIFICATION

TECHNICAL PARAMETERS

Flow-rate	0.1 – 100.0 ml/min.
Pumping system	two plungers dia. 3/8" connected in parallel
Maximum operating pressure	15 MPa (2176 PSI, 150 bar)
Accuracy of flow-rate (10 ml/min. 12MPa H ₂ O)	± 2%
Repeatability of flow-rate (10 ml/min. 12MPa H ₂ O)	± 0.5%
Accuracy of pressure measurement	± 2%
Adjustable lower pressure limit	0.0 – 14.0 MPa
Adjustable upper pressure limit	1.0 – 15.0 MPa
Number of valves*	4 (A,B,C,D)
Setting of components concentrations*	0.0 – 100.0 %
Wetted materials	stainless steel, sapphire, KEL-F, seals**
Communication	RS232, Ethernet(LAN), USB
Display, keypad	VFD 140x32 pixels, 10 pushbuttons
Power supply	100-240V 50/60Hz 100VA
Dimensions (w x h x d)	280 x 135 x 498 mm (11.02 x 5.12 x 18.23 in)
Weight	12 kg (26,5 lb)
Output capillary outer diameter	1/16"

* gradient functions are available only together with **Gradient Box ECB2005**

** seals material: default is GFP (PTFE), optional is UHMW-PE, more information on request