

ECP2011S

ECP2011SP

**ANALYTICAL SINGLE
PISTON HPLC PUMP**



Single piston pump with flow rate of **0.02-10.00 ml/min** and limit of pressure at **40 MPa** is suited for **columns washing and columns regeneration process** in liquid chromatography. It is designed with piston diameter of 1/8".

This pump may be used in classical analytical applications where pulsation does not matter. Pulsation can be eliminated by pulse dampers.

Completely new concept of electronic control and drive of pump **allows using it as standalone unit, as well as in PC controlled systems.**

OLED display allows to watch (also from a distance) actual pressure or flow rate settings. When working with buffered solvents, it is possible to use piston **back washing**.

Intuitive operating using simple keypad allows easy selection of functions for both pump version:

- **flow rate**
- **maximal flow rate - PURGE** (for priming and washing)
- **display brightness**
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For ECP2011SP only:

- **high pressure limit**
- **setting pressure sensor zero**
- **pressure unit change** (MPa, PSI, bar)

SPECIFICATION

	ECP2011S (without pressure sensor)	ECP2011SP (with pressure sensor)
Part number	ACKS000X	ACLS000X
Flow rate	0.02 – 10.00 ml/min.	
Pumping system	One piston dia. 1/8"	
Maximum operating pressure	40 MPa (5800 PSI, 400 bar)	
Accuracy of flow-rate (1ml/min. 12MPa H ₂ O)	± 2 %	
Repeatability of flow-rate (1ml/min. 12MPa H ₂ O)	± 0.5 %	
Accuracy of pressure measurement	Not available	± 2 %
Adjustable upper pressure limit	Not available	1.0 – 40.0 MPa
Wetted materials	Stainless steel, ceramic, PEEK, seals*	
Communication	RS232	
Display, keypad	OLED 2.4" 128x64 pixels, 10 pushbuttons	
Power supply	100-240V 50/60Hz 60VA	
Dimensions (w x h x d)	200 x 136 x 230 mm (7.87 x 5.35 x 9.06 in)	
Weight	4.68 kg (10.32 lb)	

* Seals material: default is GFP (PTFE), recommended optimal seals material are UHMW-PE seals, ask for more information.