

KAPPA 10P

SINGLE PISTON ISOCRATIC PUMP

Single piston pump with flow rate **0.01-9.99 ml/min** and limit of pressure **40(20) 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 (is not possible to use with RI detectors). Pulsation should be eliminated by pulse dampers. More than one pumps controlled by ECOMAC can produce high-pressure gradient.

Quite new concept of electronic and pump drive **allow using it as standalone unit, just as in PC controlled systems.**

New piston suspensions and its easy replacement **prolong working life and simplify maintenance.**



Intuitive operating using simple keypad allows easy functions chosen:

- **flow rate**
- **maximal flow rate - PURGE** (for priming and washing)
- **high pressure limit**
- **low pressure limit**
- **settings of pressure sensor zero**
- **pressure unit change** (MPa, PSI, bar)
- **display brightness**

LED display allows to watch (also from a distance) actual pressure or flow-rate settings.

By work with buffered solvents is possible to use pistons **back washing**.

SPECIFICATION

TECHNICAL PARAMETERS:

Flow rate	0.01–9.99 ml/min
Method of setting	in steps of 0.01 ml/min
Flow-rate accuracy	±2 %
Maximum operating pressure	40 MPa (up to 2 ml/min), 20 MPa (2.01-9.99 ml/min)
Precision of pressure measurement	±2 %
Upper pressure limit	0.1–40.0 MPa (up to 2 ml/min); 0.1–20.0 MPa (2.01–9.99 ml/min)
Lower pressure limit	0.0–39.9 MPa (up to 2 ml/min); 0.0–19.9 MPa (2.01–9.99 ml/min)
Selectable pressure units	MPa, PSI, bar
Wetted materials	Stainless steel, PEEK, PTFE, ceramic
Control	By keypad, RS232
Power supply	100, 115, 230 V ±10% , 50, 60 Hz
Power input	35 VA
Dimensions (W x H x D)	185 x 150 x 200 mm
Weight	5.0 kg