

ALPHA 50 PLUS

ISOCRATIC PUMP

With flow rate **0.05 – 50 ml/min** and limit of pressure **30 MPa** is this pump suited for **semipreparative** applications in liquid chromatography. Thanks its **very stable run** at low flow rates is it possible to use the pump also for **analytical** applications. It is designed with two pump heads connected in parallel with piston diameter of 3/8".

There are new improvements in piston suspension which has new plastic slide bearing and exchange is now easier. Bypass valve has been improved also and is now easier to operate it.

Intuitive operating using simple keypad allows **easy** chose functions as follow:

- flow rate
- maximal flow rate- **PURGE** (for priming and washing)
- low pressure limit
- high pressure limit
- pulsation compensation on-off

SPECIFICATION

TECHNICAL PARAMETERS:

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|--|--------------------------------------|
| Maximum operating pressure | 30 MPa |
| Precision of pressure measurement | ± 2% |
| Flow rate | 0.05 –50 ml/min in 0.05 steps |
| Precision of flow rate adjusting (10 ml/min, 10 MPa, H ₂ O) | ± 1% |
| Accuracy of flow rate settings | ± 2% |
| Upper pressure limit | 0.1 - 30 MPa |
| Lower pressure limit | 0 – 29.9 MPa |
| Wetted materials | Stainless steel, PEEK, PTFE, ceramic |
| Control | By keypad, RS232 or voltage 0-10 V |
| Power supply | 100, 115, 230 V ± 10% , 50, 60 Hz |
| Power input | 90 VA |
| Dimensions (W x H x D) | 220 x 170 x 450 mm |
| Weight | 13 kg |



- **pressure unit** (PSI, MPa or bar)
- **control mode** (by keypad, RS232 or using voltage)
- display brightness

Two **LED displays** allows to watch (also from a distance) adjusted flow rate and operating pressure. By pump function choosing, give you this displays enough of information for adjusting.

There is possibility to use this pump **by high pressure gradient mode**, where are two, tree or four unit controlled from PC using RS232 or voltage.

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