CHEMAC INC. The source for quality
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GATHER INDUSTRIE

Laboratory pump

General application data of the laboratory pumps

Technical Data

Your application data	Laboratory
Temperature	0 to 85 °C
Ambient temperature	0 to 40 °C
Viscosity	1.0 to 500 mPa s

- Maximum possible differential pressure: 10 bar
- Maximum possible system pressure: 16 bar abs.
- The pressure on the suction side has to be 0.1 bar above the vapour pressure of the liquid
- The needs inflow, means the maximum flow has to flow freely into the pump so that the pump has not to suck
- Differential pressure, capacity and speed (rpm) according to the performance curve (for 1.0 mPa s)
- Because of the manufacturing tolerances the performance curve of the pump head itself may differ. Therefor we recommend calibrating each pump head individually.

Your laboratory pump (gear pump head), magnetic drive – Series 1

Types LAB-ZP-6, LAB-ZP-9, LAB-ZP-12

Materials

Body	Stainless steel 1.4571
Shafts	Stainless steel 1.4571
Diving/driven gear	PEEK (30% CFK)
Bearings	Slide bearings – PEEK (30% CFK)
O-Ring (seals)	PTFE
Magnet type D-magnet	Shrouded in stainless steel 1.4571

Ports

1/4" NPT female (lateral)
In combination with the drive unit (including connecting parts) LAB-Alpha

According to the intended use of the pump you additionally have to follow the remarks of the manuals.

Drive unit with included converter, model: LAB-Alpha

Drive unit with connecting parts made of aluminium, driving D-magnet and with thermal ring, three phase motor, air cooled

Operating voltage	1 x 230 V, 50 Hz (to the motor: 3 x 230 V),
Speed	200 to 4,500 rpm
Power	0,12 kW
Insulation class	F/IP 55

Controlled by a frequency converter mounted in connection box (with filter class B/C1, motor overloading electronically controlled), speed control externally: 0–10 V/0–20 mA/ 4–20 mA/Modbus RTU or manually at the operating unit **(please state in order),** operation with FI-circuit Type A (calibration fault current >30 mA) is possible, leakage current 10 mA, relative humidity <95%, dewing is not permitted, control cable to motor 2 m long, shock-proof plug included.

Completely programmed, operating unit with cable included.