

Prep 100

Preparative Digital Pump



The Prep 100 Digital Pump for Preparative Chromatography applications

The Prep 100 Digital Dual Head Pump has been specifically designed for Preparative Chromatography applications. The unit provides high flow rates and high pressure capabilities, with consistent performance to minimize the potential for column damage.

The Prep 100 offers easy solvent changeover and priming capability. In addition, the Autoflush piston wash and easy seal change keep maintenance costs down.

Standard flow controls include pressure monitoring (with upper/lower pressure limits), RS-232, and remote frequency and remote voltage. All LabAlliance pumps include a **3 year warranty**.

Standard Pump Features:

- Self Flushing Pump Heads and Prime Purge Valve
- Stainless Steel Fluid Path (PEEK available upon request).
- Simple Front Panel Key Pad Controls with LED Display (0.1 mL increments)
- Autoprime™ one button toggles flow rate to maximum for rapid solvent change
- Motor Stall Detector
- Dual ball and seat Check Valves (each head) for Consistent Flow Performance

Optional High-pressure Gradient

The addition of a second Prep 100 gives you the capability to pump 200 mL/min. at 4000 psi. An optional compact stand-alone keypad is used for convenient high-pressure gradient programming without the requirement for a computer.



Gradient System Control Unit

Prep 100

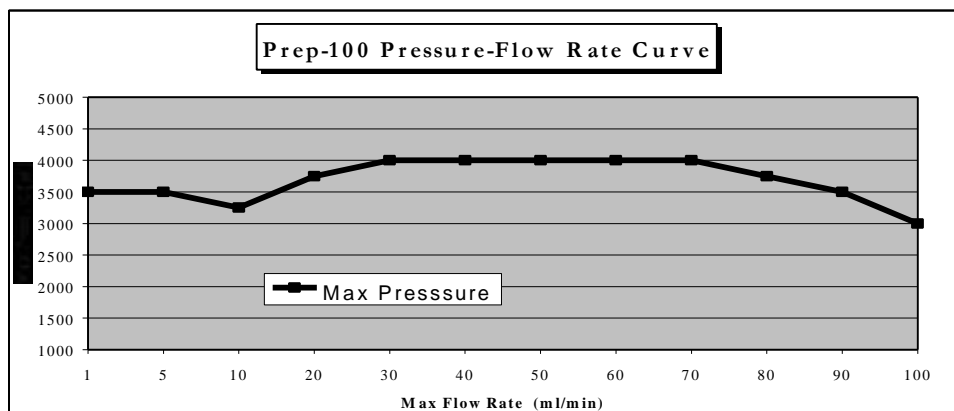
Preparative Digital Pump

PUMP SPECIFICATIONS

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|----------------------|--|
| Flow Rate | 0.1 100.0 mL/min |
| Pressure | 0-4,000 psi |
| Pulsation | ± 5% @ 100 mL/min. and 1,000 psi |
| Pressure Accuracy | ± 2% of full scale pressure |
| Pressure Zero Offset | ± 2 psi |
| Flow Accuracy | ± 2% |
| Flow Precision | 0.5% RSD |
| Physical | 10.375" W x 17.5" D x 5.5" (26 x 44 x 19 cm); 35 lbs (16 kg) |

STANDARD PUMP CONTROLS & OPTIONS

- RS-232 Serial Com Port for Complete Control & Status Monitoring
- Run/stop Inputs (5 volt TTL type)
- Remote 0-10 volt & remote 0-10 kHz Flow Rate Control Input
- **Pressure Control Option:** Includes all of the controls above, and real time pressure monitoring with upper/lower pressure limits.
- **High-Pressure Gradient Control Option:** Stand-alone keypad unit that enables gradient programming with a second Prep 100.



GRADIENT SYSTEM CONTROL UNIT SPECIFICATIONS

- equilibration time: 1-99 min, 1 min increments
- equilibration flow rate: 0.5-200 mL/min, 0.5 mL/min incr.
- equilibration max pressure (Pmax): 0-4000 psi, 10psi incr.
- injection flow rate: 0.1-10 mL/min, 0.1mL/min incr.
- injection volume: 0.1-99 mL, 0.1 mL incr.
- injection delay: 0-9 min, 0.1 min incr.
- run time: 1-999 min, 1 min incr.
- run flow rate: 0.5-200 mL/min, 0.5 mL/min incr.
- run P max: 0-4000 psi, 10 psi incr.
- # of cycles: 1-99
- 2 COM ports for control of two semi-prep pumps in tandem
- 1 COM port for Series II or III pump (for sample introduction)
- 1 COM port for motorized injection valve Rheodyne PR700-112-02
- 4 TTL configurable outputs + 4 relays (COM, NC, NO)
- dot matrix display (2 lines, 16 characters each), membrane keyboard
- configurable from PC-TTL and relay outputs mode (pulse, level logic)

ORDERING INFORMATION

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|------------------|---|
| LABPDP40SFT0001 | Prep 100 pump with pressure monitoring, SS, 110V |
| LABPEP40SFT0001 | Prep 100 pump with pressure monitoring, SS, 220V |
| Optional: | |
| WI-SCU010KIT | System control unit for Prep 100 pumps (requires 2 pumps) |