

RESERVOIR ANALYSIS



MODEL 3000-CP-011 MODEL 3000-CP-017

Positive Displacement Pump Systems

The Model 3000-CP-011 is a high flow, large volume dual cylinder pump system, capable of operating in continuous flow or pressure modes at flow rates to 100ml/minute or pressure to 20,000 psi. Cylinders can also be operated independently in either flow or pressure modes. Designed for high temperature applications, the cylinders are mounted on a cart. The cart has locking castors, tool drawer, laptop computer shelf and a 1500 cc fluid reservoir capable of being pre-pressurized to 125 psi. A laptop computer is included, with PumpWorks software pre-loaded and configured. The pump system uses 1/4 inch ported coned and threaded high flow valves with adaptors to standard 1/8 fittings supplied.

This precision pump system is normally supplied with Chandler Engineering's Model 3000 PVT System, but is ideal for use in additional applications where the need for precision delivery or pressure control of high flow/high pressure fluids is required.

The system is based on our highly successful Quizix Pump Model 6000 Series Laboratory product line. It includes a Q6220 Dual Cylinder Pump. For additional details please see our Quizix Q6000 Metering Pumps Brochure and our PumpWorks Software Brochure.

FEATURES

- ✓ Continuous Flow or Pressure Modes at Flow Rates to 100ml/min or Pressure to 20,000 psi
- ✓ Operates Independently in Either Flow or Pressure Modes
- ✓ Ideal for High Temperature Applications
- ✓ Laptop Computer is Included, with PumpWorks Software Pre-loaded and Configured



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SPECIFICATIONS

Q6220-HC Performance Specifications

Max Pressure Rating

20,000 psi / 138 MPa

Max Flow Rate

100 ml/min

Min Flow Rate

0.00003 ml/min

Flow Rate Accuracy

+/- 0.1% of set flow rate

Volume Accuracy

+/- 0.1% of volume dispensed

Volume Resolution

0.0000034 ml per step

Single Stroke Volume (typical)

125 ml

Pressure Accuracy

+/- 0.2% full scale

Pressure Resolution

0.002 psi (0.0004% FS)

Pressure Control Accuracy (typical)

+/- 3 psi (0.02% FS)

Capable of Holding Vacuum for Filling

Yes

Temperature Rating

0 to 50°C or 50 to 200°C

Physical Specifications**Wetted Materials**

Hastelloy C-276 or PH17-4

Piston Material

Zirconium Ceramic

Seal

Dimensions (w x h x d)

UHMW-PE, Elgiloy, PEEK, VITON

Fluid Port Fitting

5/16" HIP Medium Pressure C&T

Manufacturer's specifications subject to change without notice

