

# ReaXus PR Class

## High-Flow Dual Head Pumps



The rugged PR Class consists of dual-headed, positive displacement piston pumps that provide high, accurate flows and excellent pressure capability for a variety of uses. Standard fluid path materials are Stainless Steel and PEEK.

*Designed for a wide range of Preparative and Semi-Prep Chromatography as well as SMBC applications.*

Other available features include Hastelloy fluid path with jacketed pump heads for temperature controlled applications.



The pumps are designed for a wide range of Preparative and Semi-Prep Chromatography, as well as SMBC (simulated moving bed chromatography), and many process and industrial applications. With 100 mL/min and 300 mL/min versions, reaching pressures up to 4,000 psi, the pumps will meet the most demanding LC and process needs.

Features include an integrated Prime-Purge Valve, interactive keypad control, and complete PC control and status through RS-232C, micro-USB, and Ethernet serial communications. The PR Class provides the flow rates and pressures required for high throughput separations.

# REAXUS

### FLOW RATE

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100 mL/min  
300 mL/min

### PRESSURE

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Up To 4,000 psi  
(100 mL/min)

### FLUID PATH

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Stainless Steel, PEEK, or Hastelloy

### CONTROL

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RS-232, Micro USB, Run/Stop, Ethernet, Analog (0-10V, 4-20mA)

## PR Class Specifications

	100 mL	300 mL
<b>Flow Rate Range</b>	0.0–100.0 mL/min	0.0–300.0 mL/min
<b>Flow Rate Increment</b>	0.1 mL/min	0.1 mL/min
<b>Flow Rate Accuracy*</b>	±3% (2.0 mL/min and above; 80:20 Water/IPA; 1,000 psi)	±4% (5.0 mL/min and above; 80:20 Water/IPA; 500 psi)
<b>Flow Reproducibility</b>	0.5% RSD	0.5% RSD
<b>Maximum Delivery Pressure</b>	4,000 psi	1,000 psi
<b>Pressure Accuracy</b>	<b>All 100mL pumps and PEEK 300mL: ±50psi</b> <b>SS and Hastelloy 300mL: ±12.5psi</b>	
<b>Pulsation</b>	≤4.0% @ 50 mL/min and 500 psi (with pulse dampener)	
<b>Piston Displacement</b>	251 µL	565 µL
<b>Piston Wash</b>	Self-flushing pump heads—continuous wash without auxiliary pump	
<b>Wetted Materials</b>	<b>PEEK pumps may include:</b> PEEK, Synthetic Ruby, Sapphire, Zirconia, Alumina, Titanium, UHMWPE, FKM, FFKM, PTFE, ETFE, PFA <b>Stainless Steel pumps may include:</b> 316 Stainless Steel, PEEK, Synthetic Ruby, Sapphire, Zirconia, Alumina, UHMWPE, PTFE, ETFE, PFA <b>Hastelloy pumps may include:</b> Hastelloy C-276, PEEK, Synthetic Ruby, Sapphire, Zirconia, Alumina, UHMWPE, FKM, PTFE, ETFE, PFA	
<b>Dimensions (H x W x D)</b>	6.4" x 9.9" x 17.7" (16.1 x 25.1 x 45 cm) (Jacketed Hastelloy heads add 0.9" (2.1 cm) to length of pump)	
<b>Weight</b>	30 lbs. (13.6 kg)	
<b>Power</b>	100–240 VAC (±10%), 50–60 Hz, 75 W	
<b>Front Panel</b>	5-digit LED to monitor flow rate, pressure, and indicate parameters and alarms. Run/Stop, Prime, and menu keys, seven status indicators, Increase/Decrease displayed parameters.	
<b>Communication</b>	RS-232, micro-USB, LAN (serial communications) Run/Stop TTL, Analog flow control (0–10V, 4–20 mA)	
<b>Viscosity**</b>	0.5–10.8 cP (to maintain published flow accuracy)	
<b>Liquid Temperature</b>	0–82 °C	
<b>Environment</b>	Indoor use only (Pollution degree 2)	
<b>Altitude</b>	Up to 2000m	
<b>Ambient Temperature</b>	10–30 °C	
<b>Humidity</b>	20–90% relative humidity	

\*Flow Rate is dependent on solvent selection and operating pressure

\*\*Range of fluid viscosities where published flow accuracy is maintained

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