# 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. Other available features include Hastelloy fluid path with

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

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.





## Flow Rate

100 mL/min 300 mL/min

#### Pressure

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

## Fluid Path

Stainless Steel, PEEK, or Hastelloy

## Control

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



# PR Class Specifications

100 mL	300 mL
0.0-100.0 mL/min	0.0-300.0 mL/min
0.1 mL/min	0.1 mL/min
±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)
0.5% RSD	0.5% RSD
4,000 psi	1,000 psi
All 100mL pumps and PEEK 300mL: ±50psi SS and Hastelloy 300mL: ±12.5psi	
$\leq$ 4.0% @ 50 mL/min and 500 psi (with pulse da	ampener)
251 μL	565 μL
Self-flushing pump heads—continuous wash w	vithout auxiliary pump
FFKM, PTFE, ETFE, PFA  Stainless Steel pumps may include: 316 Stainle Alumina, UHMWPE, PTFE, ETFE, PFA	ess Steel, PEEK, Synthetic Ruby, Sapphire, Zirconia, , PEEK, Synthetic Ruby, Sapphire, Zirconia,
6.4" x 9.9" x 17.7" (16.1 x 25.1 x 45 cm) (Jacket	ted Hastelloy heads add 0.9" (2.1 cm) to length of pump)
30 lbs. (13.6 kg)	
100-240 VAC (±10%), 50-60 Hz, 75 W	
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.	
RS-232, micro-USB, LAN (serial communications) Run/Stop TTL, Analog flow control (0–10V, 4–20 mA)	
0.5-10.8 cP (to maintain published flow accuracy)	
0-82°C	
Indoor use only (Pollution degree 2)	
Up to 2000m	
10-30°C	
20-90% relative humidity	
	0.1 mL/min  ±3% (2.0 mL/min and above; 80:20 Water/IPA; 1,000 psi)  0.5% RSD  4,000 psi  All 100mL pumps and PEEK 300mL: ±50psi SS and Hastelloy 300mL: ±12.5psi  ≤4.0% @ 50 mL/min and 500 psi (with pulse data 251 μL  Self-flushing pump heads—continuous wash wash wash wash wash wash wash was

<sup>\*</sup>Flow Rate is dependent on solvent selection and operating pressure



teledynelabs.com



<sup>\*\*</sup>Range of fluid viscosities where published flow accuracy is maintained