

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.

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

Standard fluid path materials are Stainless Steel. Other available features include jacketed heads for temperature controlled processes.



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 4000 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-232 and Micro USB 2.0 ports. The PR Class provides the flow rates and pressures required for high throughput separations.

REAXUS

FLOW RATE

100 mL/min
300 mL/min

PRESSURE

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

FLUID PATH

Jacketed Stainless Steel

CONTROL

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

PR CLASS—Model Selection Matrix

High Flow Dual Head Pumps for Preparative Chromatography, Process & SMBC Applications

Use the Following Lists of Options and Option Codes to Construct Your Pump Model Number.

<u>P</u> <u>R</u>	<u> </u> <u> </u> <u> </u>	<u>J</u>	<u>F</u>	<u>T</u>	<u>1</u>	<u>X</u>	<u>F</u>	<u>T</u> <u>L</u>
PUMP CLASS	FLOW RATE	MATERIAL	SELF-FLUSH	PULSE DAMPENER	PISTON SEAL	INLET/OUTLET	CONTROL MODE	
PR = PR Class	100 = 100 mL/min (4,000 psi max.) 300 = 300 mL/min (1,000 psi max.)	J = Jacketed Stainless Steel Fluid Path	F = w/ Self-Flush Piston Wash	T = Pulse Dampener w/ Pressure & Leak Sensors	1 = Standard Seal (SS Energizer)	Standard	F = Flow (Constant)	

Example Model Number: PR100JFT1XFTL

Please Note: Some features and options are not available with certain configurations.

PR CLASS—Specifications

Flow Rate Range and Max. Pressure Ratings*
0.0–100 mL/min (4,000 psi)
0.0–300 mL/min (1,000 psi)

Pulsation** ≤4% @ 50 mL/min and 500 psi (100 mL)

Pressure Accuracy ±2% of full scale pressure

Flow Precision 0.5% RSD

Flow Accuracy
Within 3% of set flow rate, 2.0 mL/min and above; 80:20 Water/IPA @ 1,000 psi (100 mL)
Within 4% of set flow rate, 5.0 mL/min and above; 80:20 Water/IPA @ 500 psi (300 mL)

Flow Precision 0.5% RSD

Wetted Materials (See Above Options), Synthetic Ruby, Sapphire, UHMWPE, PTFE

Dimensions 6.3" H x 10" W x 17" D
(16 x 25.4 x 43.2 cm)

Weight 30 lbs. (13.6 kg)

Power 100–240 Vac (± 10%), 50–60 Hz

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

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

** Pulsation value with pulse dampener.

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