



XTREME R-SERIES PUMPS



**Dual Xtreme-12R pumps
on wheeled cart**

The Xtreme R-series syringe pumps are the next generation of pressure delivery systems. Expanding on the original Xtreme series pumps the R-series pump is four times faster on pressure buildup and refill cycling, near continuous duty-cycle operation, and all in a quieter unit. The Xtreme-12R, the primary unit in this series, is designed specifically to support the Daedalus overburden cells and reverse micelle preparation technology. It can operate in constant pressure mode or constant flow mode with delivery from 0.01 - 8 ml/min at 12,000 psi. Higher rates may be possible depending on the fluid characteristics. Inlet and outlet flow can be controlled manually or with air actuated valves. The latter allows for a variety of applications such as unattended cycling of the pump for pressure buildup of gaseous media or linking to a second pump for constant flow applications as required for rock core analysis.

Multiple units can be linked together and controlled by a single command pump or externally linked control pad. In addition, each unit can independently control solenoid air drive blocks for valves and provides for eight GPIO lines for additional indicators or triggered events. Highly programmable for a wide range of user-defined applications. The Xtreme-50R rated to 50,000 psi is also available.

Power requirements	100-120 VAC / 200-240 VAC, 50/60 Hz
Input current	7.8 A / 3.95 A
Temperature range media	10°C to 110°C (standard configuration)
Weight	140 lbs (68.2 kg)
Dimensions	11.35" W x 14.1" D x 33" H
Wheeled cart dimensions	36" W x 25" D x 47" H; 75 lbs

Pressure range	Xtreme-12R 0-12,000 psi (827 bar) maximum Xtreme-50R 0-50,000 psi (3448 bar) maximum
Flow rate	Xtreme-12R 0.1—17.7 ml/min ambient 13 ml/min @ 6,000 psi max 8 ml/min @12,000 psi max
Wetted parts	316 and 17-4PH stainless steel. Parker Poly Pak® is standard. Hastelloy wetted parts are available.
Operating medium	Water, Oils, Alcohols, Hydrocarbons, Inert Gases; Brine (Hastelloy components recommended)
Displacement volume	Xtreme-12R: 17.7 mL displacement Xtreme-50R: 6.7 mL displacement
Pressure connection	Xtreme-12R Inlet / Outlet ports are HiP AF1 (1/4"-28 UNF) for use with 1/16" tubing Xtreme-50R Inlet / Outlet ports are HiP HF4 (9/16"-18 UNF) for use with 1/4" tubing



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