

High Pressure Core Flooding and PVT Analysis with High Precision Syringe Pumps



R&D: In-Situ Methods

Research currently underway for ultra-deep wells requires pumps to operate at higher pressures and viscosities. The new 260HP custom pump meets this need with high pressure operation and **266** ml displacement.

**New 260HP
9,500 psi
(26% higher pressure)**

Custom Pumps

For a perfect fit, Isco can provide a custom pump tailored to your needs with special features such as:

- Flow rates
- Pressures
- Port sizes
- Software

Solve tough pumping problems with custom syringe pumps!

Simply contact your Isco rep and we will be happy to discuss your requirements.

Pump Almost Anything

Since 1971, Teledyne Isco has provided customers in the energy industry with pumps that can handle a wide variety of fluids including:

- Slurries and pastes
- Heated fluids
- Viscous fluids
- Liquefied gases

Isco Syringe Pump Product Line - Programmable & Reliable

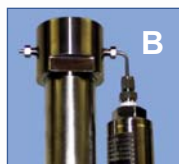
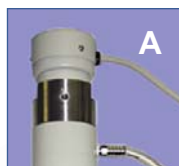
Isco's precision syringe pumps provide flow and pressure control with a remarkable operating range, minus the pulsation or flow anomalies associated with other pump types.

- Continuous, pulseless feeds at precise flow rates from sub-microliter to 400 ml/min
- Accuracy of $\pm 0.5\%$ or better
- Pressures from atmospheric to 20,000 psi

260HP High Pressure Syringe Pump

The 260HP syringe pump provides precise, predictable flow and pressure control at flow rates from sub-microliter to 64 ml/min. Exceptional low-flow stability at up to 9,500 psi makes this the ideal pump for high pressure applications from deep well core analysis to multi-dimensional capillary LC using small-bore packed capillary columns.

- Control:**
- Constant flow or pressure
 - Flow or pressure programming
 - Independent control of up to three pumps
 - Continuous flow or pressure with dual pump
 - Serial communication or analog I/O for external control/readout



260HP Accessories

- Temperature control jacket (i.e. cylinder cooling for filling with liquefied gas) **(A)**
- High-accuracy pressure transducers (0.1% linear accuracy) **(B)**
- Drivers for LabVIEW software - National Instruments

260HP Specifications

Pump module:	260HP
Capacity:	266 ml
Flow range (ml/min):	0.001 – 107 ml/min
Flow accuracy:	± 0.5% of setpoint, (Maximum 0.50 µl/min seal leakage)
Displacement resolution:	16.63 nl
Motor stability:	± 0.001% per year
Pressure range:	0.7 - 655 bar (10 - 9,500 psi)
Standard pressure accuracy:	0.5% FS
Optional pressure accuracy:	0.1% FS
Wetted materials (standard):	Nitronic 50, Graphite filled PTFE, TFE, Hastelloy C-276, inert polymers, gold, titanium
Plumbing ports:	1/8" Valco
Operating temperature:	5 - 40° C ambient
Power required:	100 Vac, 117 Vac, 234 Vac, 50/60 Hz (specify)
Dimensions (H x W x D):	102cm x 27cm x 46cm (40.6" x 10.7" x 17.9")
Weight:	Pump unit – 33.8 kg, Controller – 2.96 kg
Standards conformity:	EN1010-1, EN61326:1998, UL6101A-1, CSA1010

For guidance in selecting a pump to meet your needs,
visit us on the web at:

www.isco.com/pumpselector1



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