

Isco Syringe Pumps

65DM High Pressure Syringe Pump

NEW! 10,000 PSI FOR LOW FLOW RATE APPLICATIONS

The new 65DM syringe pump provides precise, predictable flow and pressure control at flow rates from sub-microliter to 30 ml/min. Exceptional low-flow stability at up to 10,000 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.

The D-series controller has a keypad and LCD, as well as built-in and optional interfaces for computer control and other devices. Programming is easy and flexible, with instant access to menu screens even when the pump is running. This allows you to change operating parameters on the fly. An optional extension cable lets you locate the controller up to 50 feet from the pump.

The 65DM pump module has a single-ratio drive train with auto-lubricating gears for long life and low maintenance. Special fittings are used to prevent leaks and ensure safety at maximum pressure.

Wetted materials are compatible with most aqueous and organic liquids, corrosive solutions, heated fluids, liquefied gases, viscous fluids, or slurries and pastes.

Applications

- High-pressure experiments requiring precision control
- Proteomics research using nanobore capillary packed columns
- Rock core analyses for hydrocarbon recovery studies in deep-well reservoirs
- Reactant feed in chemical process development, catalyst evaluation, plastic formation

Standard Controller Features

Operating Modes

- Constant flow or pressure with up to three pumps
- Gradient LC programming
- Flow or pressure programming with a single pump

External Interface

- RS232 serial interface
- Analog voltage inputs
- Digital inputs and outputs



65DM Specifications

Pump module:	65DM
Capacity:	67.97 ml
Flow range (ml/min):	0.00001 – 25 ml/min
Flow accuracy:	± 0.3% of setpoint, (Maximum 0.25 µl/min seal leakage)
Displacement resolution:	2.55 nl/step
Motor stability:	± 0.001% per year
Pressure range:	0.7 - 689 bar (10 - 10,000 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
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):	103cm x 27cm x 45cm (40.6" x 10.7" x 17.9")
Weight:	Pump unit – 33.2 kg, Controller – 2.96 kg
Standards conformity:	EN1010-1, EN61326:1998

Teledyne Isco is continually improving its products and reserves the right to change specifications without notice.

65DM Options & Accessories

- Hastelloy 276 or Titanium cylinder for added corrosion resistance
- Temperature control jacket (i.e. cylinder cooling for filling with liquefied gas)
- High-precision pressure transducers (0.1% linear accuracy)
- Drivers for LabVIEW - National Instruments
- 4-20 mA input for flow rate and pressure control

Temperature Control Jacket

Dual Pump Configurations



65DM Ordering Information

65DM Pump Module (only)	68-1240-065
65DM Series Controller (only)	62-1240-066
65DM Syringe Pump (includes controller)	67-1240-270
A65DM Dual Pump Continuous Flow System with Air Valves	67-1240-271



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