

SyriXus 65x

High Pressure Syringe Pump

The 65x syringe pump provides precise, predictable flow and pressure control at flow rates from sub-microliter to 25 mL/min. Exceptional low-flow stability at up to 20,000 psi (1,390 bar) makes this the ideal pump for high pressure applications from deep well core analysis and polymer extrusions. The 65x pumps to the lowest flow rates with zero pulsation available on the market!

20,000 psi (1,390 bar) for high pressure applications. Precision down to 0.01 μ L/min.

The SyriXus controller has backlit keypad and 4-line LCD display, 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. Control the pump remotely using driver for LabVIEW™ software, in addition to pump controller.

The 65x 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.

Continuous pumping is available in either single or dual pumping system controlled via air valves, offering zero pulsation for unlimited delivery.

Trust in the Teledyne ISCO SyriXus pumps for proven reliable design. Known for years of performance, it can deliver fluid or pressurized gas for long term experiments. Or hold pressure constant in the system at a simple click of the button.



SYRIXUS®

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
- Chemical/Reactant feed in chemical process development, catalyst evaluation, plastic formation

Controller Features:

- Operating Modes
 - Constant flow or pressure with up to four pumps
 - Gradient LC programming
 - Flow or pressure programming with a single pump
- External Interface
 - RS232 serial interface
 - Analog voltage inputs
 - Digital inputs and output

65x Specifications

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|-------------------------------------|---|
| Pump Module: | 65x |
| Capacity: | 67.97 mL |
| Flow Range (mL/min): | 0.01 μ L–25mL/min* |
| Flow Accuracy: | + 0.3% of setpoint, (Maximum .25 μ L/min seal leakage) |
| Displacement Resolution: | 2.55 nL/stop |
| Pressure Range: | 10–20,000 psi (0.7–1,390 bar) |
| 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: | 1/4" Autoclave Engineers, type F250C |
| Operating Temperature: | 5–40 °C Ambient |
| Power Required: | 100 VAC, 117 VAC, 234 VAC, 50/60 Hz (specify) |
| Dimensions (H x W x D) | 39.8 x 10.7 x 18.4 in (101 x 27 x 47 cm) |
| Weight: | Pump unit— 72.3 lb (32.8 kg) Controller— 6.5 lb (3.0 kg) |
| Standards Conformity: | EN61326:2013, EN61010-1:2010 Compliant to the European Machinery Directive 2006/42/EC and the European Pressure Equipment Directive (PED) 2014/68/EU |

* Maximum flow rate is dependent upon operating pressure.
(See manual for additional information.)

65x Options & Accessories

- Temperature control jacket (i.e. cylinder cooling for filling with liquefied gas)
- Drivers for LabVIEW™—National Instruments
- 4–20 mA inputs and outputs for flow rate and pressure control

Ordering Information

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| 65x Pump Module..... | 68-1240-834 |
| SyriXus Controller Basic | 68-1240-850 |
| SyriXus 0–10 V Controller | 68-1240-851 |
| SyriXus 4–20 mA Controller | 68-1240-852 |
| LabView Driver | 68-1247-134 |
| 10 ft. Extension Cable for SyriXus Controller..... | 68-1020-210 |
| Continuous Flow Air Valves..... | 68-1267-018 |
| Single Air Valves | 68-1267-019 |
| Manual Refill Valve and Outlet Package | 68-1267-023 |



Continuous
Flow System with
High Temp Package



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Teledyne ISCO is continually improving its products and reserves the right to change product specifications, replacement parts, schematics, and instructions without notice.



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