

Model SFC-24 Pump

Positive Displacement Pump for Liquid CO₂



Reliable, Accurate and Consistent Performance

The Model SFC-24 Positive Displacement Pump provides reliable, accurate and reproducible pumping of liquid CO₂ for SFC, SFE, and other applications. The SFC-24 is available with a maximum flow rate of 24 mL/min, and can reach pressures to 10,000 psi.

The pump's constant pressure mode features a selectable pressure set point. The flow rate auto-adjusts to maintain pressure. The SFC-24 features integrated cooling systems using Peltier thermoelectric modules.

Easy Maintenance

The cooling is fully self-contained within the pump cabinet, eliminating the need for external refrigeration units and the associated piping, coolants, and Freon. Peltier technology is 100% solid state.

Standard Features

- All aluminum pump heads (for heat transfer)
- Integrated cooling system using Peltier thermoelectric modules
- Stainless Steel fluid path (other than pump heads)
- In-line electronic pressure transducer
- Simple front panel keypad controls with led display
- Motor stall detector
- Outlet filter
- RS232 and remote voltage control standard

All Pumps from Scientific Systems, Inc. include a 3-Year Warranty.

Rev.2 - 9/9/09

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Model SFC-24 Pump Specifications

Flow Rate	0.01 – 24.0 mL/min.
Pressure	0 – 10,000 psi
Pressure Accuracy	± 2% of full scale pressure
Flow Accuracy	± 5% (based on gas volume measurements and back calculation to liquid)
Controls	RS-232 Serial Com Port for Complete Control & Status Monitoring Run/Stop Inputs (5 Volt TTL Type) Remote 0 – 10 Volt & Remote 0 – 10 KHz Flow Rate Control Input
Constant Pressure	Pressure Monitoring (via transducer) with user-selected upper/lower pressure limits
Control Mode	User-selectable pressuer set point Pump flow rate auto-adjusts to maintain pressure
Dimensions	5.75" H x 11.125" W x 21.125" D (14.6 x 28.3 x 53.7 cm)
Weight	36 lbs. (16.3 kg)

Ordering Information

Description	Part No.
Supercritical 24 Pump, constant pressure, self-flush, 0.01-24 mL/min., 110/220V, with RS232 control, pressure monitoring, thermo-electric head chillers	S10SNXP1
Supercritical 24 Pump, constant flow, self-flush, 0.01-24 mL/min., 110/220V, with RS232 control, pressure monitoring, thermo-electric head chillers	S10SNX01

Pump is not CE marked.