

# Model SFC-24 Pump

Positive Displacement Pump for Liquid CO<sub>2</sub>



## Reliable, Accurate and Consistent Performance

The Model SFC-24 Positive Displacement Pump provides reliable, accurate and reproducible pumping of liquid CO<sub>2</sub> 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 carry a 3-Year Warranty.**

PSS1019-RevC-120713

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## Model SFC-24 Pump Specifications

<b>Flow Rate</b> .....	0.01 – 24.0 mL/min.
<b>Pressure</b> .....	0 – 10,000 psi
<b>Pressure Accuracy</b> .....	± 2% of full scale pressure
<b>Flow Accuracy</b> .....	± 5% (based on gas volume measurements and back calculation to liquid)
<b>Controls</b> .....	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
<b>Constant Pressure</b> .....	Pressure Monitoring (via transducer) with user-selected upper/lower pressure limits
<b>Control Mode</b> .....	User-selectable pressure set point Pump flow rate auto-adjusts to maintain pressure
<b>Dimensions</b> .....	5.75" H x 11.125" W x 21.125" D (14.6 x 28.3 x 53.7 cm)
<b>Weight</b> .....	36 lbs. (16.3 kg)



## Ordering Information

DESCRIPTION	PART No.
<b>SUPERCritical 24 PUMP</b> constant pressure, self-flush, 0.01-24 mL/min., 110/220V, with RS232 control, pressure monitoring, thermo-electric head chillers	<b>S10SNXP1</b>
<b>SUPERCritical 24 PUMP</b> constant flow, self-flush, 0.01-24 mL/min., 110/220V, with RS232 control, pressure monitoring, thermo-electric head chillers	<b>S10SNX01</b>

*Pump is not CE marked.*

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