



SFT Nex10 Liquid Carbon Dioxide Pump



- Constant Pressure CO₂ Pump
- Pressure Display and Control
- Pressures up to 10,000 psi (68.9 MPa)
- Selectable Pressure Set Point
- Flow Rates up to 100 ml/min liquid CO₂
- Self-Contained Thermoelectric Cooling
- Stainless Steel Fluid Path

◀ The SFT Nex10 Liquid CO₂ Pump

The **SFT Nex10** is a robust, high capacity carbon dioxide pump designed to boost the delivery pressure of the liquified gas up to 10,000 psi (68.9 MPa). It may be used to deliver liquid CO₂ to new and existing SFE equipment including SFT's model 110, 110XW, 120, and 120XW SF extractors. The pump may be placed under an SFT-110 or 120 SFE, saving valuable lab bench space.

It may be used to inject high pressure CO₂ into reaction chambers for supercritical fluid reaction chemistry (SFR) and any other application requiring high pressure CO₂. It is ideal for use with SFT's HPR Series™ high pressure chemical reactors.

The Nex10's high performance, pneumatically driven piston pump rapidly compresses liquid CO₂ from tank pressure (750-900 psi) up to the pressures required for SFE, SFR, and other high-pressure applications. The pump operates in a constant pressure mode. The flow rate automatically adjusts to maintain the desired pressure.

The Nex10 has a stainless-steel fluid path. The CO₂ is cooled by an internal thermoelectric cooling module, ensuring efficient pumping. Cooling jackets and baths are not required.

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Pump Features

- Maintains a constant user selectable set pressure
- Reliable, robust pneumatic pump
- Stainless Steel pump head and fluid path
- CO₂ inlet filter

Standard Configuration

- **Flow Rate:** Up to 100 mls/min.
- **Pressure:** 700 to 10,000 psi (68.9 MPa)
- **Dimensions:** 6.25" high x 17.55" wide x 15" deep (15 x 45 x 137 cm)
- **Weight:** 45 Lbs. (20.4 Kg)

Utility Requirements

- **Power Requirements:** One (1) 90-240VAC, single phase, 50/60. All units have a power entry module that utilizes a C14 connection.
- **Gas Supply:** Liquid CO₂ cylinder with a dip tube
- **Compressed air:** 95 psi; 3 SCFM