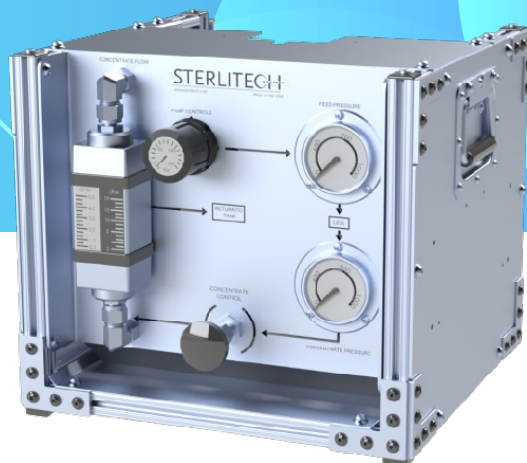


Explosion-Proof Benchtop System



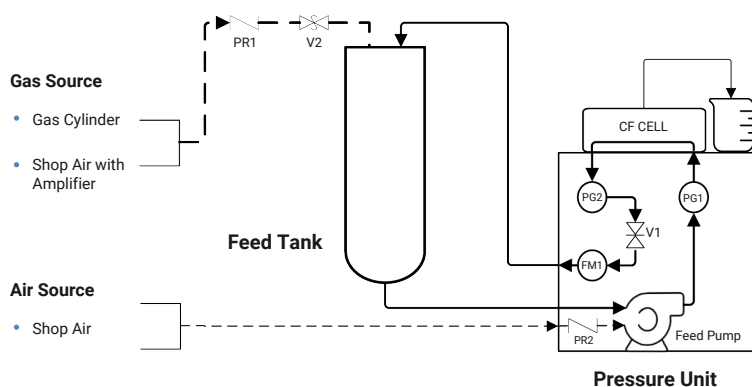
Specifications

Cell Type	Cross Flow Cells, 1812 Housing
Configuration	1 Line, Closed System
Feed Flow Rate	13.3 LPM (3.5 GPM)
Max Pressure	69 bar (1000 PSI)
Max Temperature	82°C (180°F)
Air Supply Required (for Pump Operation)	50-100 PSI Compressed/Shop Air
Gas Supply Required (for System Pressure, SP)	Gas Canister: At or Above SP Shop Air: 100PSI w/ Booster to SP
Pump Rating	316SS HP Air Operated Pump
Tank Capacity	11.4 Liters (3 Gallons)*

*Other tanks sizes and configurations available

The Explosion-proof Benchtop System operates completely on gas/air power and requires no electricity to operate. This design allows for safe operation of combustible fluids without the need for explosion-proof wiring, leading to a more cost-effective solution for organic solvent nanofiltration (OSN), among other applications. This system is batch operated, requiring a gas source for system pressurization and an air source for pump operation.

System P&ID



Legend

V1	Pressure Control Valve
V2	Gas Vent Valve
FM1	Feed Flow Meter
PG1	Feed Pressure Gauge
PG2	Concentrate Pressure Gauge
PR1	Gas Pressure Regulator (High Pressure)
PR2	Air Pressure Regulator (Low Pressure)

Routing Lines Key

---	High Pressure Gas Line
---	Low Pressure Fluid Line
---	High Pressure Fluid Line

System Dimensions

