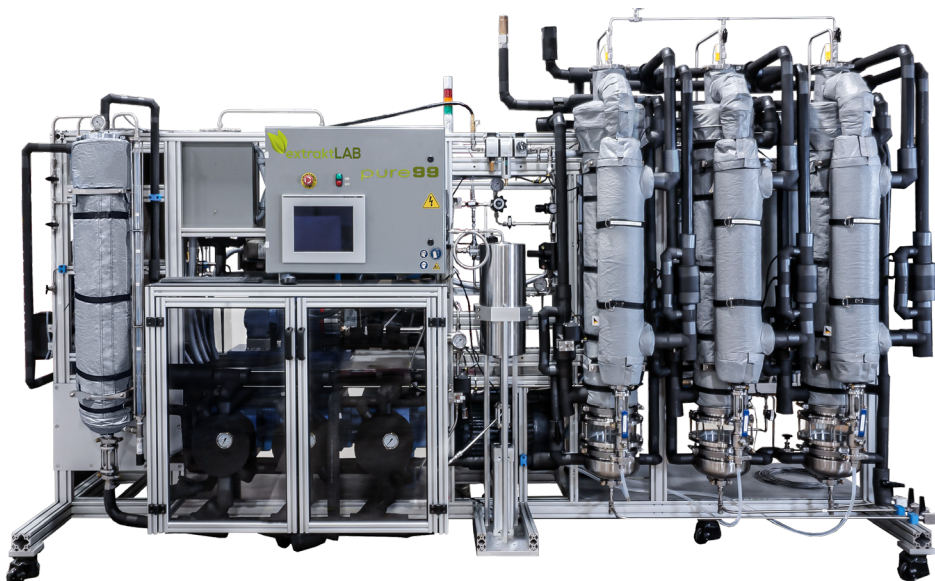


DESCRIPTION

The pure99 chromatography system was designed and optimized for on line preparative separations, with integrative closed loop solvent recovery. Preparative chromatography is used to separate complex mixtures into their pure components.

Based on decades of chromatography engineering experience, we offer a versatile chromatography system allowing you to develop separations methods for your mixture. The system may be used with many different types of eluents and column packings to help you achieve your desired separation. For separations of tens to hundreds of kg per month, the pure99 system is ideal for separations of major components of complex mixtures.



FEATURES

- 🌿 **Closed Loop Solvent Recycling**
- 🌿 **High Pressure Column**
- 🌿 **Large Diameter Column for High Loadability**
- 🌿 **Binary On Line Solvent Gradient Mixing**

EXTENDED

PROCESSING POWER

- Up to 7 L/min Flow Rate
- Diameter Column: 13.6 cm
- User Packable
- 2,500 psi High Pressure Columns
- Built-in Solvent Recovery Falling Film Distillation
- High Pressure Injection

PROCESS CONTROL

- Automated for Batch Operation
- Intrinsically Safe Thermocouples
- Allen Bradley User Interface
- Eluent Density Control
- Coriolis & Turbine Meter Flow Control
- Up to two UV/VIS Detectors
- Closed Loop Solvent Recycling
- Method & Sequence & Data Acquisition Software

GMP COMPLIANCE

- 21 CFR Part 11 Compliant Software
- Sensor Certifications
- Material Certifications
- Inert & Chemically Stable Polymeric Seals
- UL 698A, Listed
- ATEX II & C1D2 Compliant
- Normal, Chiral, and Reverse Phases

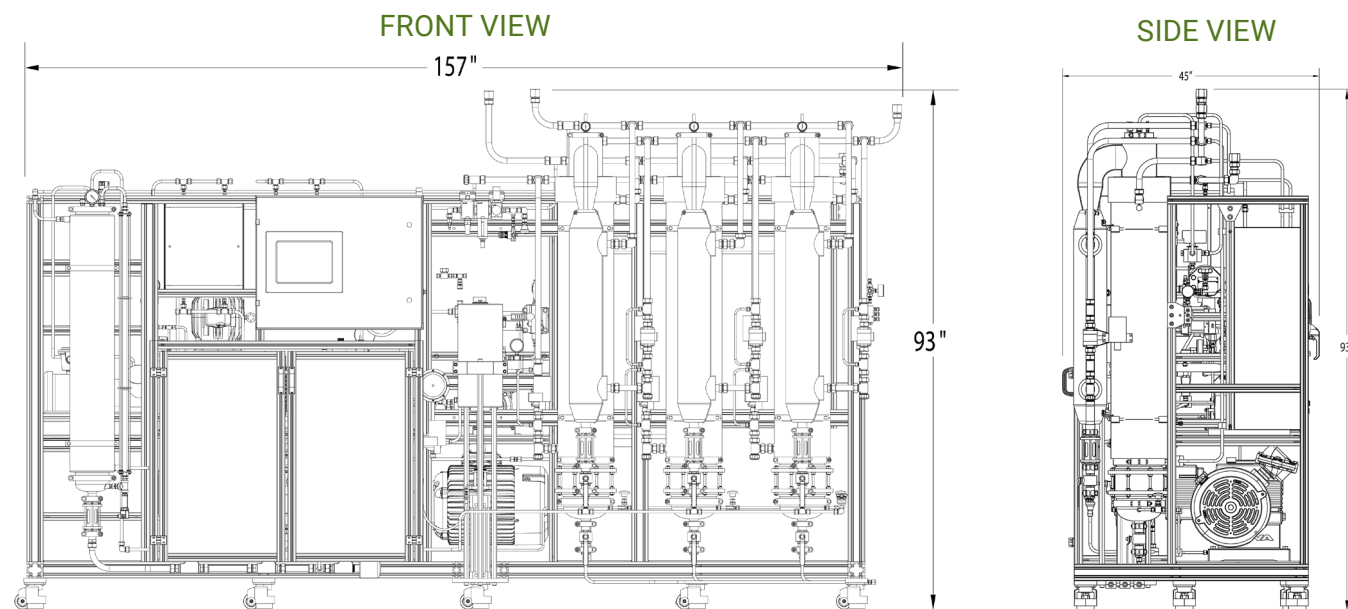
SPECIFICATIONS

ATTRIBUTE	VALUE	ATTRIBUTE	VALUE	ATTRIBUTE	VALUE
General Specifications: C1D2 Ex Proof		Column Preheater		Data System	
Dimensions (w/o light mast, in)	L157 x W45 x H93	Power (watts)	4,000	Chromatography Software: Full Control Over Instrument; Method Builder; Data Collection, Integration & Report Builder	
Unit Weight (lbs)	4500 lbs	Construction	316SS	Detection	
Sound Pressure (db)	40-50 db	Max Pressure (psi)	5,000	Detector Range	210-600 nm variable wavelength UV-VIS
Footprint (sq ft)	98	Max Heater Output	Eluent pre-heating up to 100°C	Lamp Construction	Deuterium
Collection Volume (L)	30	Column Bypass Loop	yes	Flow Cell Pressure (max psi)	1,500
Pressure Transducer	5	Injector System		Flow Cell	Silica Window, 316SS, PTFE
Flow Transducer	3	High Pressure Pump Injection (psi)	up to 2,500	Materials	
Electrical Specifications		Material	PTFE (7 diaphragm)	Wetted Materials	FDA approved, ASME 316SS
Voltage (VAC)	208-230/380	Injector Loop		Automation Specifications	
Frequency (Hz)	50/60	Max Pressure (psi)	2,500	User Interface (Alan Bradley)	Touch Screen 12"
Full Load Amps (amps)	67	Injection Volume	variable (user selected)	Connectivity	WIFI
Phase	3	Pump & Gradient Mixing System		Signal Tower	1
Certifications	UL 698A, Listed	Gradient Forming Pump for on line gradient formulation		Changeover Automation	Yes
Column: Insulated Adiabatic Column		Main Pumps	1 (3 head LEWA)	Sequences	Yes
Separation Column Diameter (cm)	13.6	Gradient Pump	1	Built-in Recipes	Yes
Separation Column Length (cm)	20	Pulse Damper	2	Data Logging	Yes
Column Pressure: ΔP max (psi)	2500.0	Flowmeter	2 Turbine, 1 Coriolis	Installation, Training, and Warranty	
Volume Max		Fractional Collection: 3 Fractions for Low Pressure Collection		Duration (months)	12
Column Pressure ΔP max (psi)	2,500	Chilling Capacity	52 kW	Quality and Labor	Parts & workmanship
Dynamic Axial Pressure (max psi)	3,000	Heating Capacity	48 kW		
Materials	316SS, passivated	Solvent Recovery and Recycling	Integrated		

SOLD SEPARATELY:

Chiller Requirement: 52kW, 15 ton capacity, 460v/3ph/37 amp
 Heater Requirement: 48kW, 200 GPM, 460v/3ph/80.6 amp
 #80-9608 | GMP Equipment Commissioning & Training Package
 #80-9606 | GMP Equipment Documentation Package
 #80-9609 | Maintenance Package (12 months)

LINE DRAWINGS



To Order:

pure99: #10-0087 (208-230V) | #10-0149 (380V)

Chiller Kit, #10-1062 (208-230/380V)

Heater Kit, #10-1074 (208-230/380V)



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