

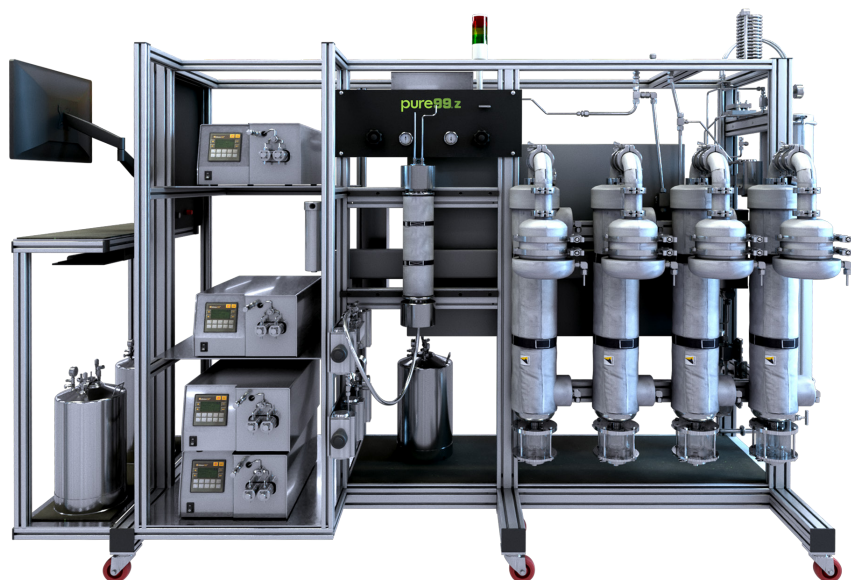
DESCRIPTION

The pure99[®]z chromatography system is a R&D platform with a high degree of versatility. The nature of R&D lends itself to this equipment getting better and better. Preparative chromatography is used to separate complex mixtures into their pure components. The pure99[®]z was designed and optimized for on line preparative separations, utilizing high pressure injection or a sample loop.

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. The pure99[®]z system is ideal for separations of major components of complex mixtures.

FEATURES

- 🌿 **High Pressure Column**
- 🌿 **Large Diameter Column for High Loadability**
- 🌿 **Binary On Line Solvent Gradient Mixing**
- 🌿 **Automated Methods & Data Integrity Controls**
- 🌿 **Closed Loop Solvent Recycling**



**Product in development; image & specifications may change.*

EXTENDED

PROCESSING POWER

- Sample loop up to 100 mL
- Pumps able to pressurize up to 5K psi @ 900 mL/min
- Column is packable with a variety of materials, selectivity, particle diameter, and pore diameter
- High pressure mixing, eliminating need for solvent degassing & helium sparging
- State of the art data system to enable automation of methods & data integrity controls

PROCESS CONTROL

- Automated for Batch Operation
- Column, Eluent
- Temperature Control
- Computer
- Touchscreen User Interface
- UV/VIS Detectors
- Closed Loop Solvent Recovery
- Method & Sequence & Data Acquisition Software

GMP COMPLIANCE

- 21 CFR Part 11 Compliant Software
- Material Conformity Certifications DIN EN 10204 2.2 or FDA 21 CFR177/178
- Inert & Chemically Stable Polymeric Seals
- UL 698A, Listed; cUL and CSA equivalents
- Normal, Chiral, and Reverse Phases

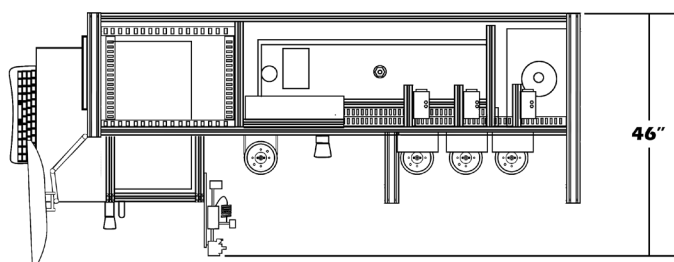
SPECIFICATIONS

ATTRIBUTE	VALUE
General Specifications: C1D2 Ex Proof	
Dimensions (w/o light mast, in)	L104 × W46 x H84
Unit Weight (lbs)	1,800
Sound Pressure (db)	50
Footprint (sq ft)	22.5
Pressure Transducer	5
Transducer	on pump
Electrical Specifications	
Voltage (VAC)	208-230/380
Frequency (Hz)	50/60
Full Load Amps (amps)	60
Phase	3
Certifications	UL 698A, Listed
	ETL UL 508A Stamped
Column: Insulated Adiabatic Column	
Separation Column Diameter (cm)	13.6
Separation Column Length (cm)	variable
Column Pressure: ΔP max (psi)	2500.0
Materials	316SS, passivated

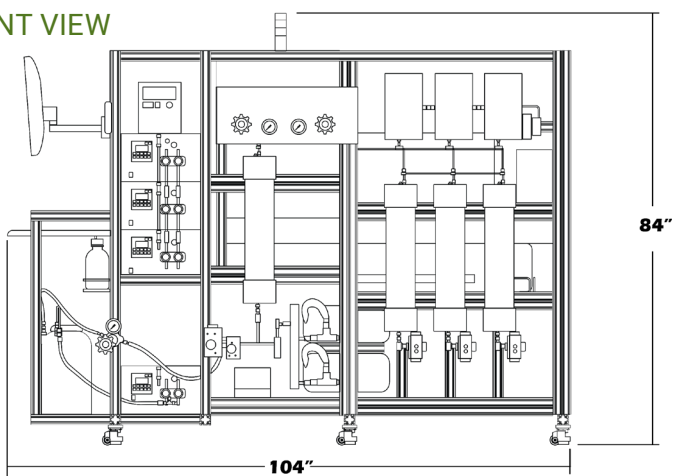
ATTRIBUTE	VALUE
Column Preheater	
Power (watts)	3,000
Construction	316SS
Max Pressure (psi)	3,000
Max Heater Output	Eluent pre-heating up to 100°C
Column Bypass Loop	yes
Injector System	
High Pressure Pump Injection (psi)	up to 2,500
Material	PTFE (316SS)
Injector Loop	
Max Pressure (psi)	2,500
Injection Volume	variable (user selected)
Pump & Gradient Mixing System	
Gradient Forming Pump for on line gradient formulation	
Gradient Pump	1
Pulse Damper	3
Flowmeter	in pump
Fractional Collection: 3 Fractions for Low Pressure Collection	
Chilling Capacity (tons)	10
Heating Capacity (kW)	48
Solvent Recovery and Recycling	Integrated

ATTRIBUTE	VALUE
Data System	
Chromatography Software: Full Control Over Instrument; Method Builder; Data Collection, Integration & Report Builder	
Detection	
Detector Range	210-600 nm variable wavelength UV-VIS
Lamp Construction	Deuterium
Flow Cell Pressure (max psi)	1,500
Flow Cell	Silica Window, 316SS, PTFE
Materials	
Wetted Materials	FDA approved, ASME 316SS
Automation Specifications	
Touch Screen HMI	15"
Connectivity	WIFI
Signal Tower	1
Changeover Automation	Yes
Sequences	Yes
Built-in Recipes	Yes
Data Logging	Yes, Built-in Tracking
Installation, Training, and Warranty	
Duration (months)	12
Quality and Labor	Parts & workmanship

LINE DRAWINGS



TOP VIEW

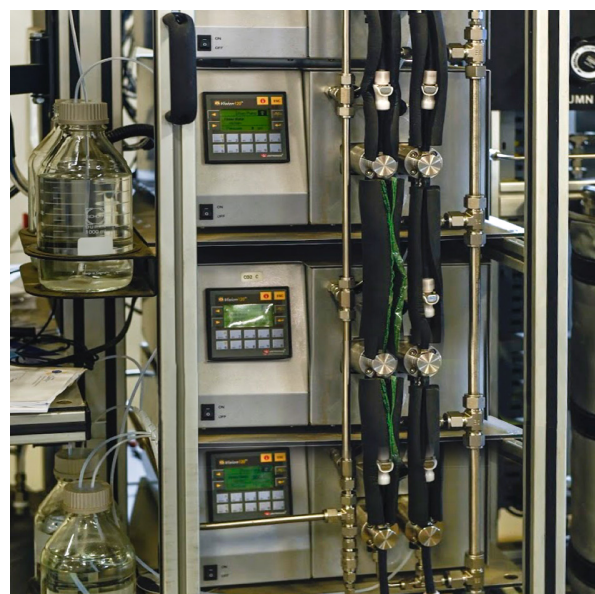


FRONT VIEW

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SOLD SEPARATELY:

Chiller Requirement: 10 tons
 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)



To Order:

pure99®z: #10-0165 (208-230V)

pure99®z: #10-0166 (380V)



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