



Single-Use Chromatography Skid

Equipment Specifications

Utility Requirements	Power	120 - 230 VAC, 50/60 Hz, 1200 Watts	
	Compressed Air	5 - 6 bar, oil & particle free	
Valves	(10) Pinch Valves		
Operating Temperature	2 - 50° C, 10 - 90% RH (Non-condensing)		
Single Use Pressure Sensor	(1) Single-Use Pressure Sensor		
UV	(1) Single-Use Flow Cell with UV Photometer		
UV Wavelength	206 - 700 nm		
Conductivity Sensor	(1) Single-Use Conductivity Sensor		
Conductivity Range	1 – 500 mS/cm		
pH Sensor	(1) Single-Use pH Sensor		
pH Range	2 - 12 pH		
Flow Path	1/4" System	1" System	
System Flow Rate	1 - 180 L/h	6 - 2000 L/h	
Column ID	8 - 25 cm	20 - 80 cm	
Pump Speed Range	0.2 - 265 RPM		
Pump Capacity	up to 3000 L/h		
Inline Dilution Capability	Yes		
Onboard Pressure Sensor	(1) Single-use Pressure Sensor		
Pressure Range	0 - 60 psi ±2 psi		
Overpressure Protection	Yes		
Inline Bubble Detectors	(3) Clamp-on Bubble Detectors		
Control			
HMI (Human Machine Interface)	Yes		
Performance & Testing			
Column Efficiency Testing	Yes		
HETP (Height Equivalent to a Theoretical Plate)	Capability to measure and report		
Asymmetry Factor	Capability to measure and report		



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Flowpath Assemblies

Our single-use flowpaths are designed with cutting-edge fluid management technologies, including overmolded connections, pump heads, tubing, filters, and sensors. These components create a robust, nearly leak-free, closed single-use device. The flowpaths are easily attachable, simplifying operation and enhancing process efficiency. Innovative valve blocks direct fluids through uniform, crevice-free flow paths, achieving extremely low turbulence. Multi TEE injection molded silicone inserts, combined with overmolded connections, minimize the footprint and significantly reducing dead legs.

- **Minimized Turbulence:** Uniform, crevice-free internal diameter (ID) reduces turbulence.
- **Enhanced Leak Prevention:** Over-molded connections significantly reduce the risk of leaks.
- **Improved Drainability:** Minimal dead legs improve drainability and decrease hold-up volume.
- **Dimensional Consistency:** Injection molded flowpaths ensure batch-to-batch consumable consistency.
- **Footprint Optimization:** Multi TEE injection molded silicone inserts and over-molded connections minimize the overall footprint.
- **Increased Efficiency:** Simplified process connections throughout the system boosts operational efficiency and process robustness.

