



Single-Use Ultrafiltration Diafiltration Skid

Equipment Specifications

Utility Requirements	Power	120 - 230 VAC, 50/60 Hz, 1200 Watts
	Compressed Air	6 bar minimum, oil & particle free
Tank Volume	50 L, 100 L, or 200 L	200 L
Minimum Working Volume	as low as 0.7 L	as low as 2.2 L
Hold-up Volume (excluding filtration device)	as low as 700 mL	as low as 2200 mL
Membrane Area	up to 10 m ²	up to 20 m ²
Feed Flow Rate	2.0 - 20.0 L/min ±10%	4.0 - 150 L/min ±10%
Filtrate Flow Rate	0.5 - 8.0 L/min ±5%	
Retentate Flow Rate	<2 L/min ±0.12 L/min >2 L/min ±5% L/min	
Pump Speed Range	0.2 - 265 RPM	
Pump Capacity	up to 16000 mL/min	
Valves	(5) Pinch Valves	
Onboard Bubble Detectors	(3) Clamp-on Bubble Detectors	
Operational Temperature	2 - 40 °C, 10 - 90% (non-condensing)	
Inlets	5 inlets (air plus 4 fluids)	
Outlet Ports	1 drain, 1 recovery, 1 filtrate	
Unrecoverable Volume	nominal amount	
Onboard Pressure Sensors	(3) Single-Use Pressure Sensors	
Pressure Control	0 - 100% control for 75 - 0 psi	
Pressure Maximum	0 - 4 bar ±0.2 bar	
Over Pressure Protection	Yes	
Operational Filtrate Conductivity	0 - 150 µS/cm Default range: 0 - 100 µS/cm ±3% + 0.4µS/cm	
Tank Temperature Sensor	2 - 45 °C ±2 °C	
Optional Filtrate UV Sensor	0 - 2 AU (wavelengths 280/300 nm) ±2% FS	
Optional Flow Meter Sensor (non-contact)	0.4 - 2.0 ±0.12 L/min >2.0 L/min ±5% at 20 °C	
Control		
HMI	Yes	



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Flowpath Assemblies

Our single-use flowpath assemblies are designed for optimal ease-of-use and consistent performance. These assemblies are USP Class VI and Animal-Free or EMA/410/01-compliant, providing a high level of safety and reliability comparable to traditional stainless-steel systems. With clear labeling to minimize operator error, our flowpaths eliminate moving parts and reduce dead space, effectively minimizing contamination risks. Additionally, our flowpaths support closed processing, which decreases cleanroom requirements and enhances the flexibility and productivity of your facility.

- **Ready to Use:** Gamma irradiated to reduce set-up time.
- **Enhanced Reliability:** Fewer connections compared to traditional single-use systems, minimizing the risk of integrity failure.
- **Tested for Performance:** Assemblies are 100% integrity tested during manufacturing to ensure robust performance.
- **Maximized Efficiency:** Reduced dead legs enhance product purity, recovery, and diafiltration efficiency.
- **No Cleaning Needed:** Eliminates the need for cleaning validation.
- **Increased Flexibility:** Closed operation mode reduces contamination risks and boosts manufacturing efficiency and flexibility.

