XCell® ATF 10 Single-use Device

Data Sheet

The XCell® ATF 10 Single-use Device is a highly efficient cell retention system leveraging XCell ATF Technology to intensify upstream bioprocesses. It features gentle, low shear diaphragm pumping action to minimize shear stress on cells. This system is utilized in various cell culture applications, including continuous bioprocessing (perfusion), N-1 perfusion for seed train optimization, and high-yield harvest or clarification of fed-batch cultures. It is ideal for the upstream production of monoclonal antibodies, recombinant proteins, vaccines, and many other biologics.



The XCell ATF 10 Single-use Device is gamma-irradiated and pre-sterilized to eliminate the need for autoclaving, enable faster implementation, reduce downtime between cell culture runs, and cut validation time and expense. The device should be placed in the specially designed support stand before use to ensure operational stability. Recommended for 200 - 5000 L process volumes.

Pre-sterilized cell retention device to reduce implementation time by >80%

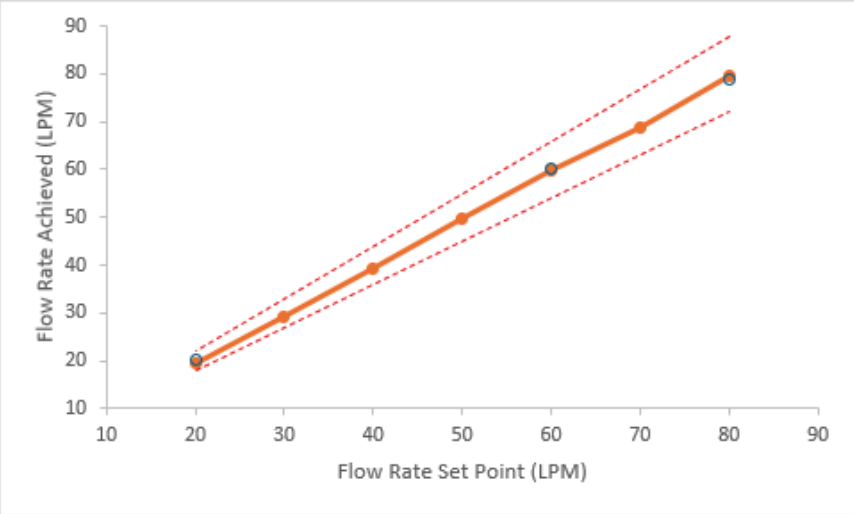
- **ATF technology inside:** Minimizes filter fouling; achieves higher viable cell densities
- **Uniform filter height:** XCell ATF Devices are linearly scalable from 0.5 L to 5000 L
- **Integrates with XCell LS Controller:** Consistent, automated performance
- **Industry-standard connectivity:** Easy to use and connect to bioreactors and tanks
- **Available off-the-shelf:** Improved security of supply

Features	Specification
Typical Bioreactor Size	200 – 5000 L
Chemistry	Polyethersulfone (PES)
Typical Pore Size	0.2 µm
Effective Surface Area	11 m^2
Filter Height	60 cm
Displacement Volume	6.0 L
ATF Flow Range	20 – 80 LPM
Typical Scalable Flow/Fiber	12 mL/min/fiber
Typical Filtrate Rate	4 – 6 LMH
Controller Compatibility	XCell C410 Controller and XCell LS Controller

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Performance Data

The XCell ATF 10 Single-use Device demonstrates consistent performance in achieving the flow rate set points as illustrated in the graph. The line shows a linear correlation between the flow rate set point and the flow rate achieved (in liters per minute, LPM).

Connectivity

The XCell ATF 10 Single-use Device components are a diaphragm pump, filter housing, inlet elbow, and a hollow fiber filter cartridge fitted within the filter housing. The unit contains five ports/connection points: top retentate port, condition/drain port, top permeate port, bottom permeate port, and A2C (XCell ATF to Controller) port. Except for A2C ports, all other ports are supplied dead-ended with AseptiQuik® connectors.

Part Number	Description	Notes
suATF10-R02P-A	XCell ATF 10 Single-use Device, 0.2 µm PES	0.2 µm filter, CPC AseptiQuik aseptic connections

Related Products



The XCell LS Controller is an easy-to-integrate advanced controller for scaling perfusion processes from pilot to commercial scale manufacturing. Advanced monitoring enables consistent operation even with high culture viscosities.



XCell ATF Devices are manufactured in an ISO 9001:2015-certified facility. Single-use and stainless-steel XCell ATF Devices support diverse applications across development from 0.5 L - 5000 L bioreactor sizes.



LONG® R³ IGF-I Cell Culture Supplement is a recombinant analog of human insulin-like growth factor-I (IGF-I) that has been specifically engineered to enhance cell culture performance and to be 200X more potent and 2X more stable in cell culture.

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