

Closed, Single-use and Complete Flow Paths for Optimized Tangential Flow Depth Filtration (TFDF™)

ProConnex® TFDF™ Flow Paths

The single-use, Gamma-irradiated and closed ProConnex® Flow Path with integrated sensors enables seamless operation on a KrosFlo® TFDF™ System. ProConnex® TFDF™ Flow Paths arrive dry, sodium hydroxide, glycerin, preservative and ethanol free for a zero flush start state. Feed stream enters the bottom port. Retentate travels through the lumen and exits the top of the tube. Permeate exits the enclosure through the lower permeate port.

ProConnex® TFDF™ Flow Path includes:

- TFDF™ filter
- Disposable pump head
- Integrated sensors
- Tubing
- Aseptic connectors

To ensure linear scalability from 1 to 2000 L, the tube length and the number of tubes per enclosure increases. Tube length increases from 20 cm to 108 cm. The effective length of the filter may be less than the physical length of the filter. The number of tubes increases from 1 - 40 per enclosure.



Actual products subject to change. All images shown for display purposes only.

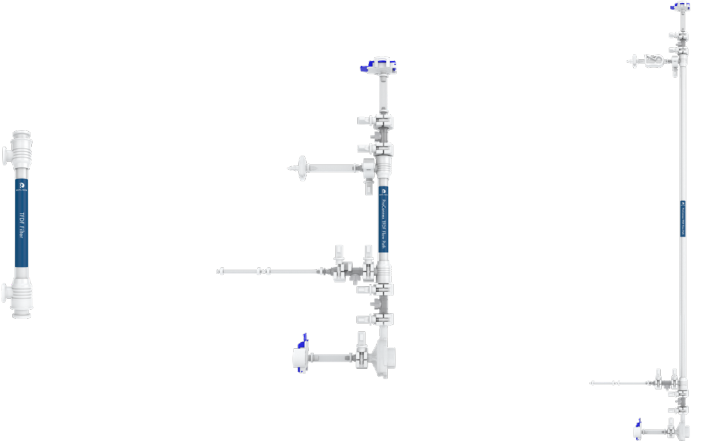




Length (cm)	20	108
Surface Area (cm ²)	3	150



Number of tubes	1	10	40
Surface area (cm ²)	3 - 150	1500	6000



ProConnex® TFD TM Flow Path	Lab-scale			Pilot-scale	Process-scale
Type	Filter	Flow path	Flow path	Flow path	Flow path
Surface area (cm ²)	3	3	150	1600	6000
Recommended process volume (L)	< 1 L	< 1 L	< 50 L	< 500 L	< 2000 L
Total filter length (cm)	20	20	108	108	108
Effective length (cm)	2.2	2.2	108	108	108
Number of tubes	1	1	1	10	40
Standard configuration made to stock	Yes	Yes	No	No	No
Customizable	N/A	Yes	Yes	Yes	Yes
Part number	TFDF-3	STFDFCL15111N	-	-	-
ProConnex Flow Paths					

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Product Contact Materials of Construction			
TFDF filter module	Polysulfone, polypropylene, polyethylene terephthalate, urethane	Pump head	Polypropylene
Gaskets	Platinum cured silicone	Pressure sensors	Polysulfone
Reducers	Polysulfone	Connectors, hosebarb adaptors	Polypropylene
Tubing	Platinum-cured silicone, C-Flex [†] , PharmaMed ^{***}	Air filter	PTFE, polyester, polypropylene
Aseptic connectors	Polycarbonate, platinum-cured silicone, polyethylene	Various fittings ^{**}	PVDF, polypropylene
Manifold	PVDF		

*Materials of construction vary based on scale and subject to change based on customer specific designs. †Lab-scale only. **Pilot and process scales only.