

BENQ Qflow

HOLLOW FIBER FILTER

mbranfiltra™ mPES membrane
Designed for Tangential Flow Filtration

- High Flux Rates
- Lower Protein Binding
- Customized



Purification
Concentration
Diafiltration



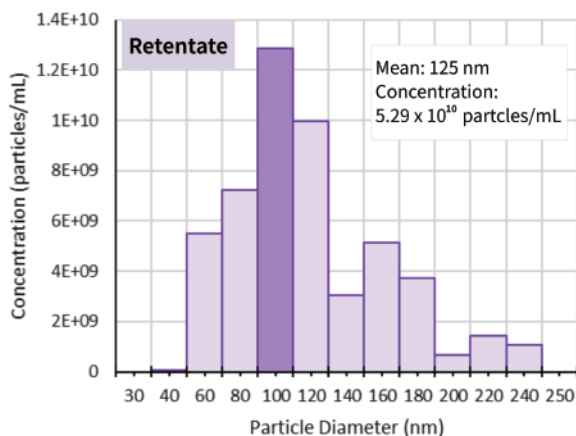
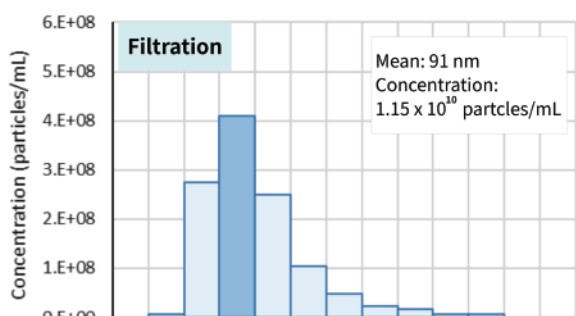
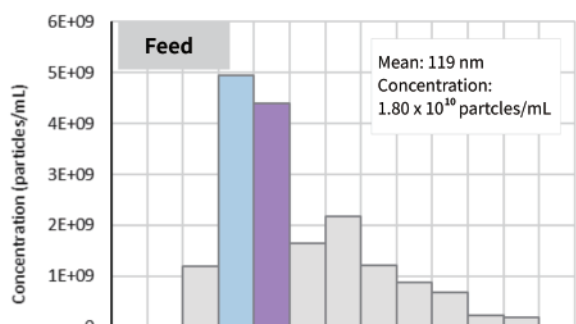
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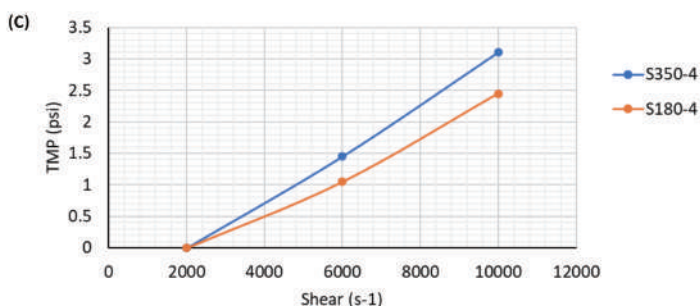
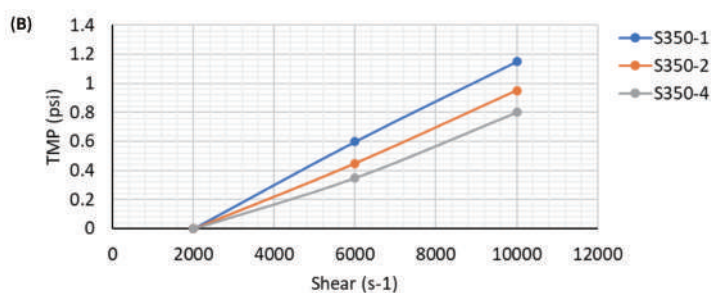
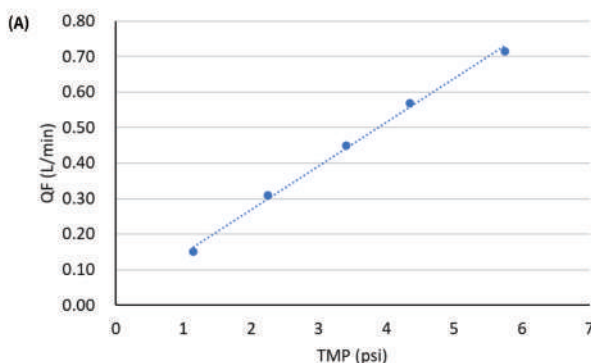
BENQ Qflow Hollow Fiber Filter

Technical Specifications

Model No.	S180-1	S180-1-ST	S180-2	S180-2-ST	S350-1	S350-1-ST	S350-2	S350-2-ST
Hollow fiber material	mPES		mPES		mPES		mPES	
Pore size (nm)	60		100		60		100	
Filtering surface (cm ²)	180		180		350		350	
Internal fiber diameter (μm)	300		300		300		300	
External fiber diameter (μm)	500		500		500		500	
Fiber number per filter	225		225		450		450	
Maximum operating pressure (psi)	30		26		30		26	
Maximum flow rate (ml/min)	358		358		716		716	
Sterilization method	Non-Sterile	Steam	Non-Sterile	Steam	Non-Sterile	Steam	Non-Sterile	Steam
Ev recovery (%)	>90%		>90%		>90%		>90%	
protein removal efficiency (%)	>90%		>90%		>90%		>90%	



TRPS-Measured Particle Profiles of BenQ Qflow TFF Before and After Filtration
Pore Size: 100 nm; Sample: Ev; Particle Diameter: 30-250 nm



Example Performance Evaluation of BenQ TFF Modules under Varying TMP and Shear Conditions.

(A) Permeate flow rate range of S350-1 under different transmembrane pressure (TMP) conditions. (B) Relationship between shear rate and TMP for membranes with different pore sizes. (C) Relationship between shear rate and TMP for cartridges with different fiber counts.