



Flexible single-use TFF systems for full-scale production

A unique open system design provides complete flexibility to meet your exact process requirements, while every part of the TFF system features best-in-class components to optimize performance.

Engineered to optimize your process

The Agilitech Advantage:

- Low shear design maximizes yield
- Optimized TMP control streamlines your process
- Easily run processes with more viscous solutions
- Reduced cost of consumables

A magnetically levitated pump combined with a cubical mixing bag with magnetic mixer limits shear on the product throughout the filtration process, maximizing yield at every TFF step. The pump maintains optimal transmembrane pressure to optimize

filter performance throughout the TFF process. Combined with an air modulated diaphragm pressure control valve, retentate pressure reaches set point almost instantly to achieve the desired TMP. These design features work to eliminate pump pulsations and pinching control valves that lead to more erratic pressure control.

The system maximizes product recovery in the recirculation bag. Users simply disconnect the tubing from the TFF skid and move the recirculation bag to the next step for further processing. This results in fewer consumables and reduced cost, while eliminating project delays due to supply chain issues with consumables.

Technical Specifications

Attribute	T750	T1000
General Skid Specifications		
Pressure rating	60 psi/4 bar	60 psi/4 bar
Temperature Range	2-50°C	2-50°C
Humidity (non-condensing)	10-90%	10-90%
Utility Requirements*		
Skid Power	220-230 VAC	220-230 VAC
Mixer Power	100-120 VAC	100-120 VAC
Wetted Materials	USP <88> Class VI and animal free	USP <88> Class VI and animal free
Membrane Holder Capacity	0.5 m ² to 5.0 m ²	2.5 m ² to 10.0 m ²
Feed Flow Rate	5-50 LPM	10-100 LPM
Feed and Filtrate Flow Measurement	Clamp on ultrasonic flow sensor (±3%)	Clamp on ultrasonic flow sensor (±3%)
Temp Control	2-50°C	2-50°C
Inlets	1 product 2 buffers	To recirc bag: 3 inlets, 1 product, 2 buffers To feed pump: 3 inlets, 1 recirculating bag, 2 additional feed ports
Tubing Internal Diameter		
Feed and Retentate:	0.75 in	1 in
Permeate:	0.5 in	0.75 in
Inlets:	0.5 in	0.75 in

Specifications represent standard Agilitech models and may differ when customized for specific customer applications.

Attribute	T750	T1000
Outlet Ports	1 Filtrate	Permeate: 2 outlets; waste or recycle Retentate; 3 outlets waste, recycle or recirculating bag
Tank Size	Up to 650 L	Up to 1000 L
Minimum working volume based on:		
Agitator Top	200 L Bag	650 L Bag
Agitator Bottom	37 L	82 L
Bag Sensors/Sampling	14 L	31 L
Hold-Up Volume (excludes filtration device)	25 L	55 L
Hold-Up Volume (excludes filtration device)	1.5 L	2.5 L
Dims (W x D x H)**		
Skid, mm	1219 x 787 x 1810	2032 x 1270 x 2108
Bag Holder, mm	1219 x 825 x 1595	1371 x 1066 x 1595
Sensor Performance		
Pressure	0-6 psi (± 2%)	0-6 psi (± 2%)
	6-30 psi (± 3%)	6-30 psi (± 3%)
	30-60 psi (± 5%)	30-60 psi (± 5%)
Filtrate Conductivity	0-250 mS/cm (±0.25 mS/cm)	0-250 mS/cm (± 0.25 mS/cm)
Vessel Weight	0-650 kg (± 0.3%)	0-1000 kg (± 0.3%)
Flow	0 - 50 LPM (± 3%)	0-100 LPM (± 3%)

*Compressed air (oil free) @ 80 psi/5.5 bar

**Highest Operator interaction: 5 ft 2 in (T750); 5 ft 8 in (T1000)

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