



Minimate™ EVO Tangential Flow Filtration System

Plug and Play Benchtop TFF System

Pall's Minimate EVO Tangential Flow Filtration (TFF) system is designed for highly reliable buffer exchange or concentration of samples up to 1 liter. The new TFF system includes the addition of a downstream pressure gauge to enable accurate transmembrane pressure (TMP) differential calculations, allowing greater user control and easier validation. In addition, the Minimate EVO TFF system features improved stirring, more durable tubing and connections, and overall easier setup and operation.

Applications

Tangential flow filtration is a rapid and efficient method for the concentration or diafiltration of biomolecules. It can be used in a wide range of applications.

- Concentrate and desalt proteins, peptides, or nucleic acids (DNA, RNA, oligonucleotides)
- Recover antibodies or recombinant proteins from clarified cell culture media
- Process metal sensitive enzymes and molecules
- Separate (fractionate) large from small biomolecules
- Recover or remove viruses from solutions
- Prepare samples prior to column chromatography
- Concentrate samples after gel filtration
- Replace dialysis applications
- Depyrogenate water, buffers, and media solutions



Specifications

Materials of Construction

Reservoir

Polysulfone

Reservoir Cover

Polypropylene

Reservoir O-RingBuna[◆]-N rubber (nitrile)**Magnetic Stir Bar**

PTFE coated

Gauge Wetted Parts

Type 316L stainless steel

SS Fitting O-ring

EPDM rubber

Gauge Mounting Block

Polypropylene

Luer Fittings

Polypropylene and stainless steel

TubingPharMed[◆] #16**Three-Way Valves**

Polycarbonate body, acetal core

Drip Tray

Urethane

Minimate EVO TFF System

Includes peristaltic pump, pump head, 2 pressure gauges, reservoir, stir plate, drip tray, and assorted fittings

Dimensions

30.7 cm W x 48.2 cm D x 20.8 cm H
(12.1 in. W x 19 in. D x 8.2 in. H)

Weight

6.0 kg (13.2 lbs.)

Maximum Inlet Pressure

4.1 bar (410 kPa, 60 psi)

Operating Temperature Range

0 - 50 °C (0 - 106 °F)

Recirculation Flow Rate

10 - 240 mL/min

Minimum System Working Volume

< 5 mL

MWCO Selection Guide

MWCO Selection for Protein Applications

MWCO	Membrane Nominal Pore Size*	Biomolecule Size	Biomolecule Molecular Weight
3K	—	—	10K - 30K
10K	—	—	30K - 90K
30K	—	—	90K - 300K
100K	10 nm	30 - 90 nm	300K - 900K
300K	35 nm	90 - 200 nm	900K - 3,000K

MWCO Selection for Virus Applications

MWCO	Membrane Nominal Pore Size*	Virus or Particle Diameter
100K	10 nm	30 - 90 nm
300K	35 nm	90 - 200 nm

*Nominal pore size as measured by electron microscopy



Ordering Information

Minimate EVO TFF System

Part Number	Description	Pkg
OAPMPUNV	Includes peristaltic pump, pump head, 2 pressure gauges, reservoir, stir plate, drip tray, and assorted fittings	1/pkg

Minimate TFF Capsules with Omega™ Membrane


Part Number	Description (MWCO)	Pkg
OAD65C12	650DALTON	1/pkg
OA001C12	1K	1/pkg
OA003C12	3K	1/pkg
OA005C12	5K	1/pkg
OA010C12	10K	1/pkg
OA030C12	30K	1/pkg
OA050C12	50K	1/pkg
OA070C12	70K	1/pkg
OA100C12	100K	1/pkg
OA300C12	300K	1/pkg
OA500C12	500K	1/pkg
OA990C12	1000k	1/pkg



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