

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-Ring

Buna[♦]-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

Tubing

PharMed[♦] #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

< 15 mL

MWCO Selection Guide

MWCO	Biomolecule Molecular Weight	Part Number
1K	3-6K	OA001C12
3K	10-20K	OA003C12
5K	15-30K	OA005C12
10K	30-90K	OA010C12
30K	90-180K	OA030C12
50K	150-300K	OA050C12
70K	210-420K	OA070C12
100K	300-900K	OA100C12
300K	900-1800K	OA300C12
500K	1500-3000K	OA500C12
1000K	>3000K	OA990C12

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
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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