



Life Sciences

USD 2322a⁽¹⁾



Pall® T-Series Membrane Cassettes

Enhanced membrane cassettes for lab development, pilot scale and production processes between 0.5 and 20,000 L

Filtration. Separation. Solution.SM

Pall T-Series Membrane Cassettes

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The new Pall T-Series Tangential Flow Filtration cassettes represent the natural evolution of technology. Based on Pall's highly successful Centramate™ and Centrasette™ products, the T-Series cassettes have been developed following years of experience optimizing and developing our customers' Biotech and Biopharm processes.

Pall's new T-Series cassettes incorporate many new features and contain the latest in Pall's proprietary membrane technology, including the highly effective, low protein binding, high yield Omega™ membranes.

Centramate products provide scalable membrane formats in Effective Filtration Area (EFA) from as low as 0.1 m² (1.1 ft²), whilst the Centrasette cassettes in combination with Pall's innovative Centrasette holders can process thousands of liters with installations incorporating hundreds of square meters of EFA.

For more details, talk to your local Pall representative or call us today and ask to speak to the TFF Product Manager.



Features

Enhanced Manufacturing Process

- Conforms to cGMP, providing customers with the most robust and consistent products available today

Enhanced Validation

- Ensures that product surpasses the latest Biopharmaceutical and regulatory standards, such as: Extractables, TOC, and USP Biological Test for Plastics, Class VI, 70 °C

Enhanced Documentation

- Comprehensive documented validation guide to support the use of the T-Series cassettes in your process⁽¹⁾

Improved Process Performance

- Designed to give optimal mass transfer for your process⁽²⁾

Documentation

Each T-Series membrane cassette has a unique serial number for full traceability. Each cassette is supplied with:

- Certificate of Quality
- Membrane Cassette Care and Use Procedures
- Material Safety Data Sheet (MSDS) for cassette preservative
- Two platinum cured silicone gaskets

In addition, the full validation guide is available on request from your local Pall contact.



Shelf Life

The shelf life of cassettes packed in glycerin and sodium azide is expected to be five years from the date of manufacture when the cassettes are stored unopened in the original packaging at 4 – 25 °C and protected from direct light. Extended shelf life studies are ongoing.

Notes:

⁽¹⁾ Pall also offers a comprehensive Validation Service for specific tests (such as compatibility) in your process fluid.

⁽²⁾ Pall's Downstream Processing Specialists are available to train and support you in the optimization of your TFF processes.

Pall T-Series Membrane Cassette

Specifications and Ordering Information

Technical Specifications

Materials of Construction

Membrane	Polyethersulfone
Support	Polyolefin
Screens	Polypropylene
Encapsulant	Polyurethane with white pigment (TiO ₂)
Permeate Seals	Platinum cured silicone
Gaskets	Medical grade, platinum cured silicone

Operating Limits

Maximum Pressure⁽¹⁾	6 bar (90 psi) @ 23 °C 4 bar (60 psi) @ 55 °C
Maximum TMP	4 bar (60 psi) @ 55 °C
Temperature Range⁽²⁾	4 – 55 °C
pH Range	2 – 14

⁽¹⁾ Pressure rating will be dependant on rating of lowest system component

⁽²⁾ Cassettes must not be allowed to freeze

Typical Operating Parameters

Crossflow Rate for Processing	5 – 7 L/min/m ² (0.5 – 0.7 L/min/ft ²)
Crossflow Rate for Cleaning	8 – 10 L/min/m ² (0.8 – 1.0 L/min/ft ²)

Integrity Test

Test Pressure	2 bar (30 psi)
Maximum Air Forward Flow	< 1600 sccm/m ² (< 150 sccm/ft ²)

Ordering Information

This is a guide to the part number structure and availability of T-Series Cassettes. For example, the part number **OS010T12** is an Omega membrane, 10 kDa MW, 0.1 m² (1.1 ft²) Centramate screen channel cassette.

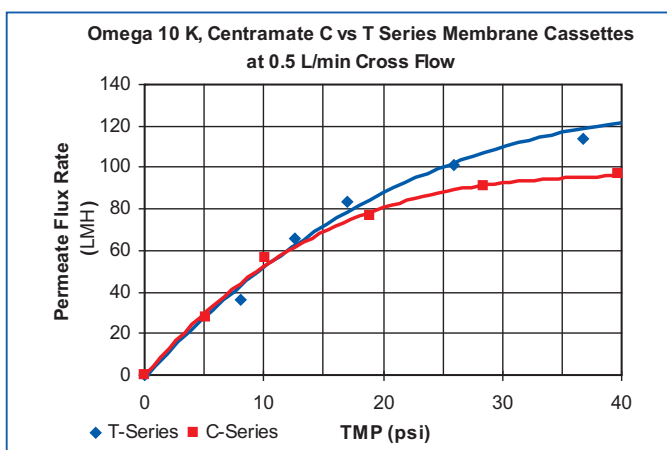
Code	Membrane	Description
OS	Omega	Low protein binding, modified polyethersulfone

Code	MWCO	Code	Type and Area Screen Channel
001	1 kDa	T12	Centramate 0.1 m ² (1.1 ft ²)
003	3 kDa	T06	Centrasette 0.5 m ² (5.4 ft ²)
005	5 kDa	T26	Centrasette 2.5 m ² (27 ft ²)
010	10 kDa		
030	30 kDa		
100	100 kDa		
300	300 kDa		

Improved Mass Transfer

The new T-Series cassettes have been designed to provide maximum mass transfer through the membrane, resulting in faster processing times or reduced area installations, compared to existing similar cassette formats.

To test the new T-Series cassettes in your process, contact Pall today.





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