

**Molsep : high temperature and pressure resistant hollow fibre cartridges /
Intersep Filtration Systems.**

Contributors

Intersep Filtration Systems.

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Wellcome Collection
183 Euston Road
London NW1 2BE UK
T +44 (0)20 7611 8722
E library@wellcomecollection.org
<https://wellcomecollection.org>

Molsep[®]

High Temperature and
Pressure Resistant
Hollow Fibre Cartridges



INTERSEP
FILTRATION SYSTEMS

Molsep® Hollow Fibre Cartridges

Molsep® Hollow Fibre cartridges are available in a standard sanitary design with a choice of membrane pore sizes and surface areas. The unique double skinned structure of Molsep® hollow fibres offer high resistance to elevated temperatures and pressures. The units are also highly chemical and pH resistant and offer high flow characteristics.

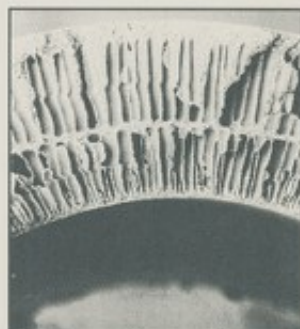
Principle

Microporous hollow fibres are bundled together and sealed within a cartridge. The solution to be filtered is pumped through the cartridge, passing through the lumen of the fibres, being re-circulated in a cross-flow mode. Solutes and solvents with a molecular-weight cut-off smaller than the rated pore-size pass through the membrane and are collected via ports within the housing. Hollow fibres are employed to enable the use of a large membrane surface area within a relatively compact cartridge. Suitable for low to moderate levels of particulate suspension.

Applications

- Bioprocessing.
- End product separation / purification.
- Cell washing / buffer exchange.
- Purification of enzymes / proteins / polysaccharides.
- Separation of flavourings / essences from crude extracts.
- Concentration of hazardous materials prior to disposal.
- Recovery of valuable by-products.
- Preparation of ultra-pure pyrogen free water.

The unique double-skinned hollow fibre structure of Molsep®



Features

- Unique double skinned membrane offers high temperature (98°C) and pressure resistance.
- High flow characteristics.
- Easily sterilisable by a wide variety of standard methods including autoclaving and in-line steam.
- Wide pH and chemical resistance.
- Available with a wide range of pore sizes.
- Built to the highest quality specification.
- Conforms to USP XXI Class VI Biosafety Standards.
- Available in sanitary design with standard clamp connectors.

Specifications

Pore Size (NMWCO)	10, 30, 100, 150K Dalton
Surface Areas	2.3 - 8.3m ²
Fibre Inner Diameter	400-800µm
Max. Feed Pressure	6 Bar
Max. Transmembrane Pressure	3 Bar
Water Flux (measured with distilled water at 25°C and 3 Bar)	240-750 l/m ² h
Max. Temperature	98°C
pH Range	1 - 14
Membrane	Polyethersulphone (PES)
Case	Polysulphone
O Ring	PTFE
Adhesive	Epoxy resin
Connections	Sanitary clamps throughout

Ordering Information

NMWCO (kDaltons)	Product Code	Membrane Surface Area	Fibre Internal Diameter	Water Flux l/m ² h	Membrane
10	04102083	8.3 m ²	500µm	240	PES
30	04103053	5.3 m ²	800µm	500	PES
30	04103082	8.2 m ²	500µm	420	PES
100	04110023	2.3 m ²	400µm	580	PES
150	04115053	5.3 m ²	800µm	750	PES

* 0.5 M² LABORATORY TEST UNITS ARE AVAILABLE UPON REQUEST

Distributed by:

In the U.S. Intersep Inc., Carriage Lane Place, PO Box 560,
Cazenovia, New York 13035-0560
Tel: 1-315-655-4900 Fax: 1-315-655-4076

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Brook House, Molly Millars Bridge,
Wokingham, Berkshire RG11 2RZ, UK
Tel: (0734) 795566 Fax: (0734) 795186

Note: This information is based on our latest state of knowledge and is intended to provide only general notes on our products. At any time we reserve the right to make modifications due to new developments. Any existing industrial property rights must be observed. The quality of our products is guaranteed under our general conditions of sale. The Intersep name is a trademark of Intersep Ltd. Molsep® is a trademark of Dacel Chemical Industries.

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