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## Contributors

Intersep Filtration Systems.

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# Spira-Cel<sup>™</sup>

High Flux Spiral Wound Ultrafiltration Modules

# FILTRATION SYSTEMS

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#### Spira-Cel™ Spiral Wound Modules

Intersep Nadir<sup>®</sup> membranes are available in spiral wound cartridges. Used for Cross-Flow filtration, spiral wound cartridges offer the advantages of high membrane surface areas in a compact design. Spira-Cel<sup>TM</sup> modules fit most commonly used cartridge holders. Alternatively Intersep can supply stainless steel housing modules.

#### Principle

A sandwich of membrane layers is wrapped spirally around an inner permeate collection tube. Process solution is passed tangentially through the cartridge; the permeate passes through the membrane and then flows spirally to the central collection tube. Spacers enable optimum hydro-dynamics and thus a high flow of permeate.

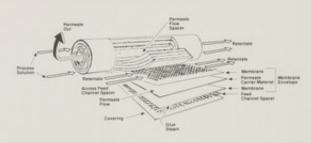
#### Applications

- Separation / concentration / bioprocessing of fermentation products.
- Diafiltration applications.
- Waste water treatment / valuable product recovery.
- Chemical process solution separations.
- Depyrogenation.
- Blood products separations.

#### Features

- Fits standard cartridge holders.
- Available in wide range of membrane types and cut-offs.
- Nadir<sup>®</sup> Regenerated Cellulose membrane allows almost complete recovery of albumin during processing.
- Easily sterilisable by chemical methods.
- · Economical.
- Very high flux rates (Typical 35-40 l/ m<sup>2</sup>h).
- Easy & predictable scale-up with addition of modules.
- High surface areas within compact modules.
- Conforms to USP XXI Class VI Biosafety Standards.
- Rapid clean up with recommended chemical solutions.

## **Ordering Information**



#### Specifications

Size	2"x6"	4"x33"		
Fitting	Sanitary	Sanitary		
Diameter (Inches)	1.8	4.2		
Length (Inches)	6	33		
Standard Feed Spacer (mm)	30	44		
Other Spacers upon request				
Membrane Surface Area (m <sup>2</sup> )	0.14	5.5		
Operating Temperature Range	5°C-70°C	5°C-70°C		
Max. Suspended Solids	10-20%	10-20%		
Rec. Cross-flow Rate per Spiral	1.2m <sup>3</sup> /h	7m <sup>3</sup> /h		
Max. Permeate Pressure	0.35 bar	0.35 bar		
Rec. Pressure Drop	0.8 bar	1.6 bar		
Max. Operating Pressure	10 bar	10 bar		
Stainless Steel Housing	03700016	03700033		

Nominal MWCO (kDaltons)										
Membrane	0.1	4	5	10	20	30	50	100		
Polyethersulphone (PES)	031000**	031004**		031010**			031050**			
Polyaramide (PA)			035005**		035020**		035050**			
Regenerated Cellulose (C)				033010**		033030**		033100**		
Polysulphone (PS)								032100**		

\*\*Please substitute 14 or 55 for cartridges 2" x 6" and 4""x33" respectively. See Data Sheet IS21 for details of all Nadir<sup>®</sup> membranes.

#### Distributed by:



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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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