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Contributors

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Spira-Cel™

**High Flux Spiral Wound
Ultrafiltration Modules**



INTERSEP
FILTRATION SYSTEMS

Spira-Cel™ Spiral Wound Modules

Intersep Nadir® 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™ 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® 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 / m²h).
- 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.

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 (m²)	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	1.2m³/h	7m³/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

Ordering Information

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® membranes.

Distributed by:

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INTERSEP
FILTRATION SYSTEMS

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