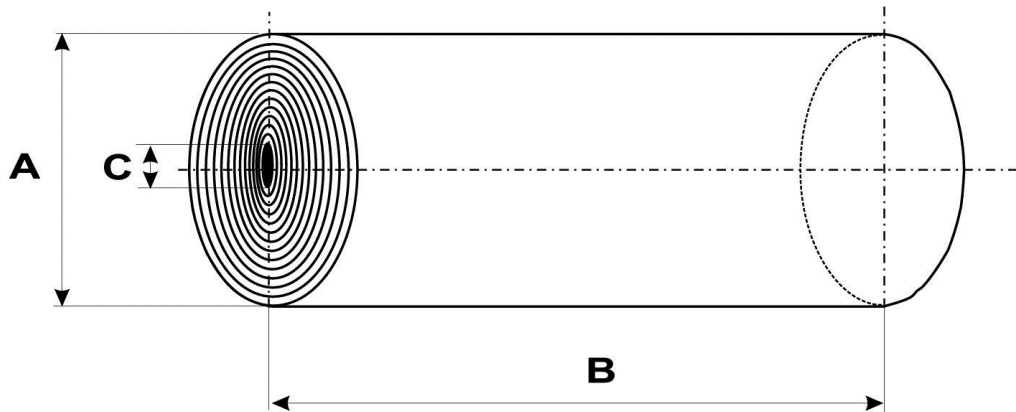


# SPIRA-CEL<sup>®</sup> Data Sheet

## - Sanitary Modules for Ultrafiltration -

### PS-UH-4333 Series



Module				Membrane		
		A	B	C		
		Ø Outside Module	Length Module	Ø Inside Permeate tube	NADIR <sup>®</sup> membranes	UH030 UH050
Dimension	mm	109.5	838	21.1	Membrane material	PESH PESH
Tolerance	mm	+0 / -3	+1 / -2	± 0.1	Nom. MWCO (kDa)	30 50

Module specs & data					
Spacer thickness, diamond type			mil / mm	30 / 0.8	44 / 1.1 80 / 2.0
Membrane area			m <sup>2</sup>	7.6	6.3 4.3
Outer wrap					Spacer wrap

Recommended operating conditions					
Prefiltration		µm		≤ 50	≤ 75 ≤ 150
Crossflow <sup>(1)</sup>		m <sup>3</sup> /h		5	6 8
Permeate pressure		bar		0	0 0
Pressure loss per module (Δp)		bar		1.0 - 1.3	1.0 - 1.3 1.0 - 1.3
Pressure loss per housing (Δp)		bar		Please contact MICRODYN-NADIR	

Allowable operating conditions					
Feed pressure, max.		bar		10	10 10
Retentate pressure, min.		bar		0.7	0.7 0.7
Permeate pressure, max.		bar		0.35	0.35 0.35
Transmembrane pressure, max.		bar		10	10 10
Pressure loss per module, max. (Δpmax)		bar		Please contact MICRODYN-NADIR	
Processing temperature		°C		5 - 75	5 - 75 5 - 75
pH range during filtration				2 - 10	2 - 10 2 - 10
pH range during CIP				1.5 - 12.5	1.5 - 12.5 1.5 - 12.5
Disinfection with chlorine <sup>(2)</sup>		ppm		200	200 200

<sup>(1)</sup> for water at 25 °C / <sup>(2)</sup> at 30 - 50 °C and pH > 11 for max. 30 min/day

**Note:** Not all combinations are available. Please do not hesitate to contact MICRODYN-NADIR for any further information.

MICRODYN-NADIR behält sich das Recht vor, Angaben ohne vorherige Ankündigung anzupassen.  
We reserve the right to change specifications without prior notification.

MICRODYN-NADIR GmbH  
Industriepark Kalle-Albert  
Rheingaustraße 190 – 196  
D-65203 Wiesbaden

Telefon: +49 (0) 611/962-6001  
Telefax: +49 (0) 611/962-9237  
E-Mail: info@microdyn-nadir.de  
Internet: www.microdyn-nadir.de



# SPIRA-CEL<sup>®</sup> Data Sheet

## - Sanitary Modules for Ultrafiltration -

### PS-UH-4333 Series

#### Changes:

The here printed values may be subject to changes. Presently valid are the values on the data sheet shown on web site [www.microdyn-nadir.com](http://www.microdyn-nadir.com).

#### Tolerances:

The tolerances indicated on our data sheets are composed to the best of our knowledge.

#### Warranty:

Stated warranties are valid if values on this data sheet are followed during use of the module(s) only. Also rules for installation, cleaning, water and preservation have to be adhered to and log registered made available for MICRODYN-NADIR on request. MICRODYN-NADIR approved cleaning detergent, anti-foam, polymers, other chemicals and filter-aids lubricants can be applied only.

#### First Cleaning:

MICRODYN-NADIR modules may be put into production after having gone through the first cleaning prescribed by MICRODYN-NADIR on product packing notes or given differently by MICRODYN-NADIR.

#### Conformity:

All materials of the above mentioned SPIRA-CEL<sup>®</sup> spiral wound modules are suitable under applicable FDA regulations; certificates are on file and will be furnished upon request. Please inquire for availability of further certificates.

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E-Mail: [info@microdyn-nadir.de](mailto:info@microdyn-nadir.de)  
Internet: [www.microdyn-nadir.de](http://www.microdyn-nadir.de)

