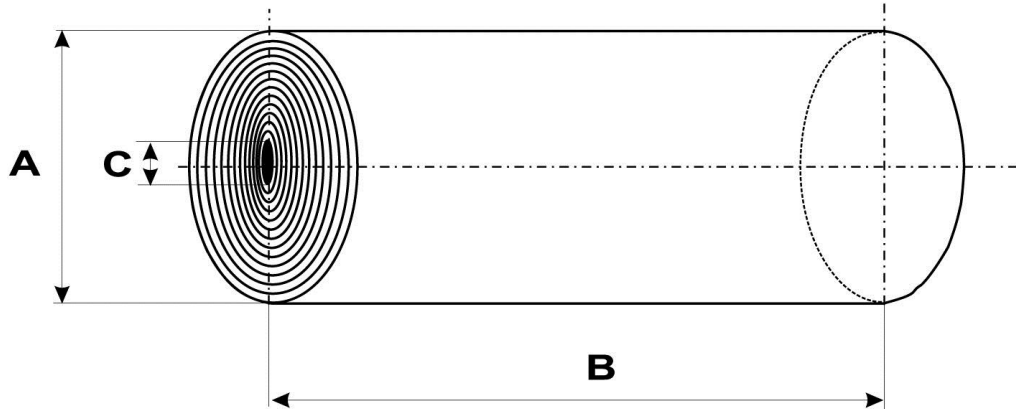


# SPIRA-CEL<sup>®</sup> Data Sheet

## - Sanitary Modules for Nanofiltration -

### DS-NP-3838 Series



Module		A	B	C
		Ø Outside Module	Length Module	Ø Inside Permeate tube
Dimension	mm	96	965	21.1
Tolerance	mm	+0 / -3	+1 / -2	± 0.1

Membrane		
NADIR <sup>®</sup> membranes	NP010	NP030
Membrane material	PES	PES

Module specs & data			
Spacer thickness, diamond type		mil / mm	30 / 0.8    44 / 1.1
Membrane area		m <sup>2</sup>	7.0    5.7
Outer wrap			Spacer wrap

Recommended operating conditions			
Prefiltration		µm	≤ 50    ≤ 75
Crossflow <sup>(1)</sup>		m <sup>3</sup> /h	4    5
Permeate pressure		bar	0    0
Pressure loss per module (Δp)		bar	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	40    40
Retentate pressure, min.		bar	0.7    0.7
Permeate pressure, max.		bar	0.35    0.35
Transmembrane pressure, max.		bar	40    40
Pressure loss per module, max. (Δp <sub>max</sub> )		bar	Please contact MICRODYN-NADIR
Processing temperature		°C	5 - 75    5 - 75
pH range during filtration			2 - 10    2 - 10
pH range during CIP			1.5 - 12.5    1.5 - 12.5
Disinfection with chlorine <sup>(2)</sup>		ppm	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 Nanofiltration -

## DS-NP-3838 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:

SPIRA-CEL<sup>®</sup> spiral wound 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.

The above mentioned SPIRA-CEL<sup>®</sup> spiral wound modules are evaluated by the USDA to be in compliance with 3-A Sanitary Standard, Number 45-02.

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

