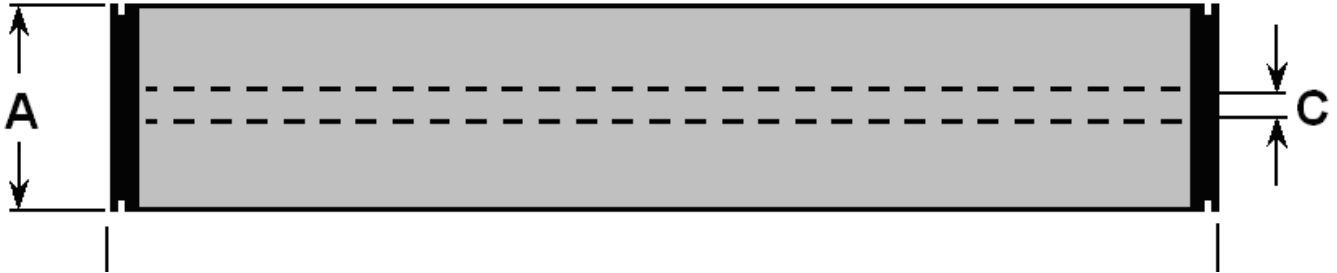


# SPIRA-CEL<sup>®</sup> Data Sheet

## - Modules for Ultrafiltration -

### OY-UP-8040 Series

Modules for Environmental and Industrial Applications



Module					Membrane					
		A	B	C			UP005	UP010	UP020	UP150
		Ø Outside Module	Length Module	Ø Inside Permeate tube	Regular membrane type		PES	PES	PES	PES
Dimension	mm	200.5	1016	30.15	Nom. MWCO (kDa)		5	10	20	150
Tolerance	mm	+0 / -2	+0 / -3	± 0.1						

Module specs & data						
Spacer type				Diamond	Parallel	Parallel
Spacer thickness		mil / mm		44 / 1.1	44 / 1.1	80 / 2.0
Membrane area		m <sup>2</sup>		27.5	27.5	19.0
Outer wrap				Industry hard shell		

Recommended operating conditions						
Prefiltration		µm		≤ 75	≤ 75	≤ 150
Cross flow <sup>(1)</sup>		m <sup>3</sup> /h		30	30	40
Permeate pressure		bar		0	0	0

Allowable operating conditions						
Feed pressure, max.		bar		10	10	10
Retentate pressure, min.		bar		0.7	0.7	0.7
Transmembrane pressure, max.		bar		10	10	10
Permeate pressure, max.		bar		0.35	0.35	0.35
Pressure loss per module, max. (Δp <sub>max</sub> ), 5 - 50 °C		bar		2	2	2
Pressure loss per module, max. (Δp <sub>max</sub> ), 50 - 65 °C		bar		1.3	1.3	1.3
Pressure loss per module, max. (Δp <sub>max</sub> ), 65 - 80 °C		bar		0.5	0.5	0.5
Pressure loss per housing, max. at 80 °C		bar		2	2	2
Processing temperature		°C		5 - 80	5 - 80	5 - 80
pH range during filtration				0 - 12	0 - 12	0 - 12
pH range during CIP				0 - 12	0 - 12	0 - 12
Disinfection with chlorine <sup>(2)</sup>		ppmh		35.000	35.000	35.000

<sup>1)</sup> for water at 25 °C / <sup>(2)</sup> at 200 ppm chlorine, 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.

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# SPIRA-CEL<sup>®</sup> Data Sheet

- Modules for Ultrafiltration -

## OY-UP-8040 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.

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