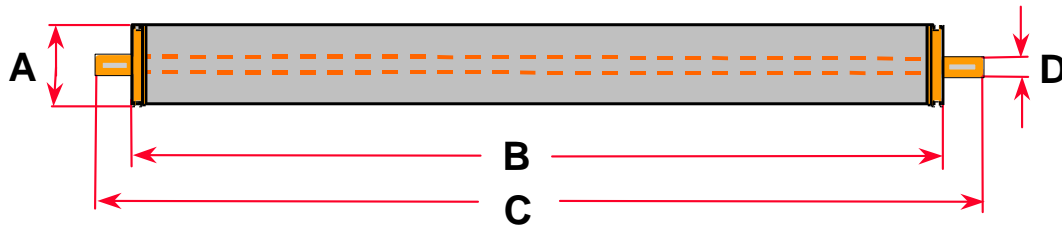


SPIRA-CEL[®] Data Sheet

- Modules for Nanofiltration -

OY-NP-2440 Series

Modules for Pilot Projects



Module					Membrane		
	A	B	C	D			
	Ø Outside Module	Length Module	Length Permeate tube	Ø Outside Permeate tube	NADIR [®] membrane type	NP010	NP030
Dimension mm	62	965	1016	19.05	Membrane material	PES	PES
Tolerance mm	+ 0 / - 2	+ 0 / - 3	± 0.5	+ 0.1 / - 0			

Module specs & data				
Spacer type				Diamond Parallel
Spacer thickness		mil / mm		44 / 1.1 44 / 1.1
Membrane area		m ²		1.8 1.8
Outer wrap				Industry hard shell

Recommended operating conditions				
Prefiltration		µm	≤ 75	≤ 75
Cross flow ⁽¹⁾		m ³ /h	2	2
Permeate pressure		bar	0	0

Allowable operating conditions				
Feed pressure, max.		bar	40	40
Retentate pressure, min.		bar	0.7	0.7
Transmembrane pressure, max.		bar	40	40
Permeate pressure, max.		bar	0.35	0.35
Pressure loss per module, max. (Δp _{max}), 5 - 50 °C		bar	2	2
Pressure loss per module, max. (Δp _{max}), 50 - 65 °C		bar	1.3	1.3
Pressure loss per module, max. (Δp _{max}), 65 - 80 °C		bar	0.5	0.5
Processing temperature		°C	5 - 80	5 - 80
pH range during filtration			0 - 12	0 - 12
pH range during CIP			0 - 12	0 - 12
Disinfection with chlorine ⁽²⁾		ppmh	35.000	35.000

¹⁾ for water at 25 °C / ⁽²⁾ 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[®] Data Sheet

- Modules for Nanofiltration -

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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.

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 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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