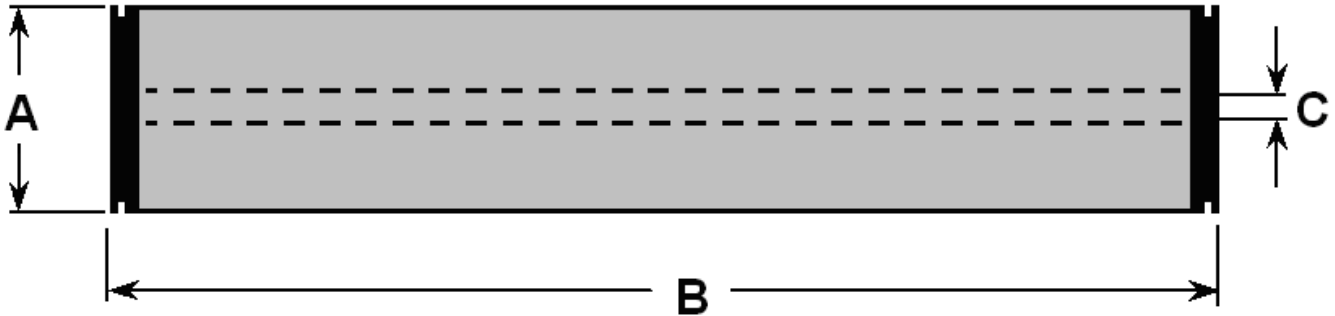


# SPIRA-CEL<sup>®</sup> Data Sheet

## - Modules for Ultrafiltration -

### GY-UP-8040 Series

Modules for Environmental and Industrial Applications



| Module    |    |                  |               | Membrane               |                       |       |       |       |       |
|-----------|----|------------------|---------------|------------------------|-----------------------|-------|-------|-------|-------|
|           |    | A                | B             | C                      |                       |       |       |       |       |
|           |    | Ø Outside Module | Length Module | Ø Inside Permeate tube | Regular membrane type | UP005 | UP010 | UP020 | UP150 |
| Dimension | mm | 200.5            | 1016          | 30.15                  | Membrane material     | PES   | PES   | PES   | PES   |
| Tolerance | mm | +0 / -2          | +1 / -3       | ± 0.1                  | Nom. MWCO (kDa)       | 5     | 10    | 20    | 150   |

| Module specs & data            |  |  |                |           |
|--------------------------------|--|--|----------------|-----------|
| Spacer thickness, diamond type |  |  | mil / mm       | 44 / 1.1  |
| Membrane area                  |  |  | m <sup>2</sup> | 25.0      |
| Outer wrap                     |  |  |                | FRP shell |

| Recommended operating conditions |  |                   |         |
|----------------------------------|--|-------------------|---------|
| Prefiltration                    |  | µm                | ≤ 75    |
| Cross flow <sup>(1)</sup>        |  | m <sup>3</sup> /h | 25 - 40 |
| Permeate pressure                |  | bar               | 0       |

| Allowable operating conditions                                  |  |     |        |
|---|--|-----|--------|
| Feed pressure, max.   |  | bar | 10     |
| Retentate pressure, min.  |  | bar | 0.7    |
| Transmembrane pressure, max.                                    |  | bar | 10     |
| Permeate pressure, max.   |  | bar | 0.35   |
| Pressure loss per module, max. (Δp <sub>max</sub> ), 5 - 50 °C  |  | bar | 2      |
| Pressure loss per module, max. (Δp <sub>max</sub> ), 50 - 65 °C |  | bar | 1.3    |
| Pressure loss per module, max. (Δp <sub>max</sub> ), 65 - 80 °C |  | bar | 0.5    |
| Pressure loss per housing, max. at 80 °C                        |  | bar | 2      |
| Processing temperature  |  | °C  | 5 - 80 |
| pH range during filtration                                      |  |     | 2 - 11 |
| pH range during CIP   |  |     | 1 - 12 |

<sup>(1)</sup> for water at 25 °C

#### Note:

All modules from GY-Series will be delivered with attached ATDs.

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

- Modules for Ultrafiltration -

## GY-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.

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)

