

# DuPont™ IntegraTec™ XP 52 IC Module

Modules for Multi Element Vessel

## Key Features

### Proven XP™ Hydrophilic PVDF Fiber:

- Superior fouling and chlorine resistance.
- High colloidal particulate, bacteria and virus log removal rate.
- Excellent filtration permeability.
- Easy cleaning and wettability.

### Optimized Module Design:

- Unique end cap to suit integration in Multi-Element Vessel configuration.
- High active filtration area to minimize footprint.
- High operation recovery with high air scouring tolerance.
- Reduced chemical consumption with maintenance cleanings protocol.
- Hybrid submerged-pressurized operation mode for high pressure systems.
- Robust materials for long lifetime.
- Easy installation and low maintenance..

## Key Applications

High pressure, outdoor, compact footprint and large scale filtration in:

- Oil feed water.
- Large size desalination RO pretreatment.
- Large size municipal drinking water filtration.
- RO pretreatment.



## Module Specification

### General

|                                |                                |  |
|--------------------------------|--------------------------------|--|
| Part No / GMID                 | 12091652                       |  |
| Mode of Filtration             | Out-In Pressurized             |  |
| Membrane Type                  | Hollow fiber                   |  |
| Membrane Material              | PVDF (Polyvinylidene Fluoride) |  |
| Membrane Pore Size             | 0.03 µm                        |  |
| Module Operating Process       | Dead-end                       |  |
| Other Wetted Module Components | Polyurethane, uPVC, and EPDM   |  |

### Dimensions

|                            |                   |                     |
|----------------------------|-------------------|---------------------|
| Active Membrane Area       | 52 m <sup>2</sup> | 560 ft <sup>2</sup> |
| Module Length Overall (L2) | 2,265 ± 2.0 mm    | 89.2 ± 0.08 inch    |
| Module Length (L1)         | 2,119 ± 1.5 mm    | 83.4 ± 0.06 inch    |
| Module Diameter (D1)       | 178 mm            | 7.0 inch            |
| Module Diameter (D2)       | 160 mm            | 6.3 inch            |
| Module Diameter (D3)       | 170 mm            | 6.7 inch            |
| Module Diameter (D4)       | 80 mm             | 3.1 inch            |

### Weight and Volume

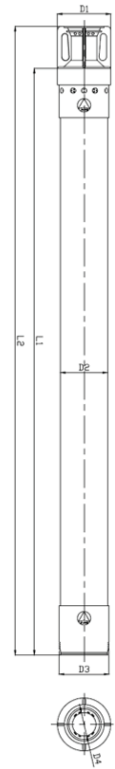
|  |       |          |
|--|-------|----------|
| Shipping Weight                            | 30 kg | 66 lbs.  |
| Weight Empty                               | 26 kg | 57 lbs.  |
| Weight Filled                              | 52 kg | 115 lbs. |
| Hold-Up Volume Feed (Clean-In-Place = CIP) | 19 L  | 5.0 gal  |
| Hold-Up Volume Membrane Structure (CIP)    | 10 L  | 2.6 gal  |
| Hold-Up Volume Filtrate (CIP)              | 6 L   | 1.6 gal  |



Certified to  
 NSF/ANSI/CAN 61

## Suggested Operating Conditions

| General  | Details   |                |
|--|---|----------------|
| Operating Temperature Range                      | 1 - 40 °C   | 34 - 104 °F    |
| Operating pH                                     | 2 - 11  |                |
| Cleaning pH                                      | 2 - 12  |                |
| Typical Filtration Trans-Membrane Pressure (TMP) | 0.4 - 1.5 bar                                     | 5.8 - 21.8 psi |
| Typical Backwash TMP                             | 0.6 - 2.0 bar                                     | 8.7 - 29.0 psi |
| Backwash Type                                    | Air scour with liquid backwash                    |                |
| Backwash Flux                                    | 100 L/(m <sup>2</sup> h)                          | 58.8 gfd       |
| Backwash Flow                                    | 5.2 m <sup>3</sup> /h                             | 22.9 gpm       |
| Operating Limits (Maximum)                       |   |                |
| Rate of Pressure Change                          | 0.5 bar/sec                                       | 7.3 psi/sec    |
| Inlet Pressure                                   | Please refer to the pressure vessel manufacturer. |                |
| Filtration TMP                                   | 2.1 bar   | 30.5 psi       |
| Backwash TMP                                     | 2.5 bar   | 36 psi         |
| Filtration Flux                                  | 110 L/(m <sup>2</sup> h)                          | 64.5 gfd       |
| Filtration Flow                                  | 5.7 m <sup>3</sup> /h                             | 25.3 gpm       |
| Backwash Flux                                    | 120 L/(m <sup>2</sup> h)                          | 70.6 gfd       |
| Particle Size                                    | 300 µm  |                |
| Exposure NaOCl                                   | ≤ 1,500,000 ppm x h                               |                |
| Recommended max. instantaneous exposure NaOCl    | 2,000 ppm   |                |



## General Information

- Avoid any abrupt pressure variations during start-up, operation, shutdown, cleaning or other sequences to prevent possible membrane damage. The maximum pressure change allowable is 0.5 bar/s.
- If operating limits and guidelines given in this document are not strictly followed, any warranty will be null and void.
- To control biological growth during extended system shutdowns, it is recommended that storage solution be introduced into the membrane modules.

## Regulatory Note

- Certified drinking water modules require specific conditioning procedures prior to producing potable water. For operating parameters, please refer to the [DuPont™ IntegraTec™ MEV Modules Process & Design Manual](#) (Form No. 45-D04596-en).
- Drinking water modules may be subjected to additional regulatory restrictions in some countries. Please check local regulatory guidelines and application status before use.



Have a question? Contact us at:  
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