

# DuPont™ IntegraTec™ XP 51 Module

Modules for Open Platform

## 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:

- Open platform design to fit customer built skids.
- Short module design to suit height restricted or containerized installation.
- High operation recovery with high air scouring tolerance.
- Reduced chemical consumption with maintenance cleanings protocol.
- Robust materials for long lifetime.
- Easy installation and low maintenance.

## Key Applications

High recovery,  
height restricted or  
containerized filtration in:

- Municipal drinking water.
- Industrial utility water.
- Industrial wastewater reuse.
- Municipal wastewater filtration.
- RO pretreatment.



## Module Specification

### General

|                                |                                   |
|--------------------------------|-----------------------------------|
| Part No / GMID                 | 12091625                          |
| 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, EPDM, and ABS |

### Dimensions

|                               |                |                 |
|-------------------------------|----------------|-----------------|
| Active Membrane Area          | 51 m²          | 549 ft²         |
| Module Length Overall (L)     | 1,863 ± 3.0 mm | 73.3 ± 0.1 inch |
| Module Length (L1)            | 1,500 ± 1.5 mm | 59.1 ± 0.1 inch |
| Module Length (L2)            | 1,633 ± 3.0 mm | 64.3 ± 0.1 inch |
| Module Length (L3)            | 1,823 ± 3.0 mm | 71.8 ± 0.1 inch |
| Module Diameter (D)           | 225 mm         | 8.9 inch        |
| Module Width (W1)             | 180 mm         | 7.1 inch        |
| Module Width (W2)             | 342 mm         | 13.5 inch       |
| Feed / Filtrate port DN50 (F) | 51 mm          | 2.0 inch        |

### Weight and Volume

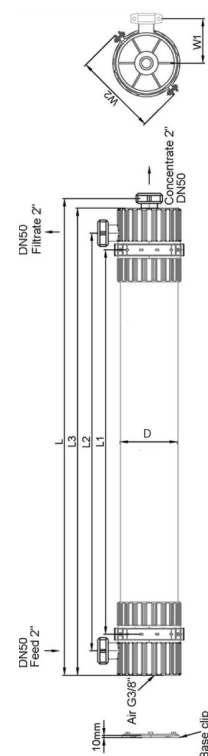
|                                            |       |          |
|--------------------------------------------|-------|----------|
| Shipping Weight                            | 60 kg | 132 lbs. |
| Weight Empty                               | 48 kg | 106 lbs. |
| Weight Filled                              | 83 kg | 183 lbs. |
| Hold-Up Volume Feed (Clean-In-Place = CIP) | 30 L  | 7.9 gal  |
| Hold-Up Volume Membrane Structure (CIP)    | 9 L   | 2.4 gal  |
| Hold-Up Volume Filtrate (CIP)              | 8 L   | 2.1 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/(m²h)                    | 58.8 gfd       |
| Backwash Flow                                    | 5.1 m³/h                       | 22.4 gpm       |
| Operating Limits (Maximum)                       |                                |                |
| Rate of Pressure Change                          | 0.5 bar/sec                    | 7.3 psi/sec    |
| Inlet Pressure                                   | 6.25 bar (at 20 °C)            | 90.7 psi       |
| Filtration TMP                                   | 2.1 bar                        | 30.5 psi       |
| Backwash TMP                                     | 2.5 bar                        | 36 psi         |
| Filtration Flux                                  | 110 L/(m²h)                    | 64.5 gfd       |
| Filtration Flow                                  | 5.6 m³/h                       | 24.8 gpm       |
| Backwash Flux                                    | 120 L/(m²h)                    | 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).
- For assembly please refer to the latest version of the [DuPont™ IntegraTec™ Open Platforms PVDF-UF Modules Assembly Manual](#) (Form No.45-D02507-en).
- 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™ Process and Design Manual](#) (Form No. 45-D00874-en).
- Drinking water modules may be subjected to additional regulatory restrictions in some countries. Please check local regulatory guidelines and application status before use.
- Flushing needs to be done according to the [DuPont™ IntegraTec™ Open Platforms PVDF-UF Modules Assembly Manual](#) (Form No. 45-D02507-en).



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