

# DuPont™ IntegraTec™ XTP 100 IP IG Module

## Modules for Rack Solution

### Key Features

#### Proven XTP Hydrophilic PVDF Fiber:

- Superior fouling management and chlorine resistance.
- High colloidal particulate, bacteria, and virus log removal rate.
- Excellent filtration permeability, the design flux is 20% higher compared to conventional UF module.
- Long term durability.

#### Optimized Module Design:

- Innovative end cap to direct coupling of modules in IP skids with simple assembly and scalability.
- High active filtration area to maximize productivity.
- 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 water throughput and controlled footprint in:

- Industrial utility water.
- Industrial wastewater reuse.
- Municipal wastewater filtration.
- RO/NF pretreatment.



## Module Specification

### General

Part No / GMID	42000353
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

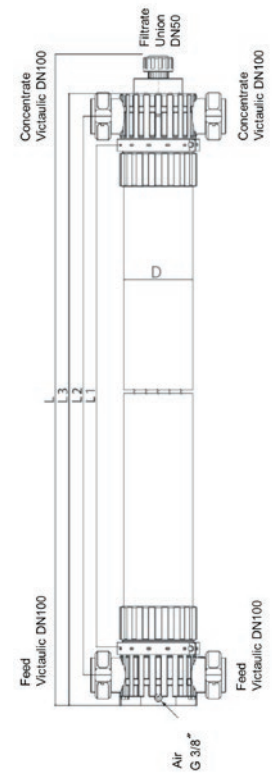
Active Membrane Area	100 m <sup>2</sup>	1,076 ft <sup>2</sup>
Module Length Overall (L)	2,491 ± 3.0 mm	98.1 ± 0.1 inch
Module Length (L1)	2,000 ± 1.5 mm	78.7 ± 0.1 inch
Module Length (L2)	2,192 ± 3.0 mm	86.3 ± 0.1 inch
Module Length (L3)	2,367 ± 3.0 mm	93.2 ± 0.1 inch
Module Diameter (D)	225 mm	8.9 inch
Module Width (W1)	360 mm	14.2 inch
Module Width (W2)	342 mm	13.5 inch

### Weight and Volume

Shipping Weight	87 kg	192 lbs.
Weight Empty	66 kg	146 lbs.
Weight Filled	110 kg	242 lbs.
Hold-Up Volume Feed (Clean-In-Place = CIP)	37 L	9.8 gal
Hold-Up Volume Membrane Structure (CIP)	15 L	4.0 gal
Hold-Up Volume Filtrate (CIP)	13 L	3.4 gal

## 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	0.4 - 1.5 bar	5.8 - 21.8 psi
Backwash Type	Air scour with liquid backwash	
Air Scour Flow	8 ~ 12 Nm <sup>3</sup> /h	4.7 ~ 71 scfm
Backwash Flux	40 - 100 L/(m <sup>2</sup> h)	23.5 ~ 58.8 gfd
Backwash Flow	4.0 - 10.0 m <sup>3</sup> /h	17.6 ~ 44 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/(m <sup>2</sup> h)	64.5 gfd
Filtration Flow	11.0 m <sup>3</sup> /h	48.4 gpm
Backwash Flux	120 L/(m <sup>2</sup> h)	70.6 gfd
Particle Size	300 µm	
Exposure NaOCl	≤ 3,000,000 ppm x h	
Recommended max. instantaneous exposure NaOCl	4,000 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™ IntegraPac™ IP Rack Assembly Manual](#) (Form No.45-D01776-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™ IntegraPac™ IP Rack Assembly Manual](#) (Form No. 45-D01776-en).



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