

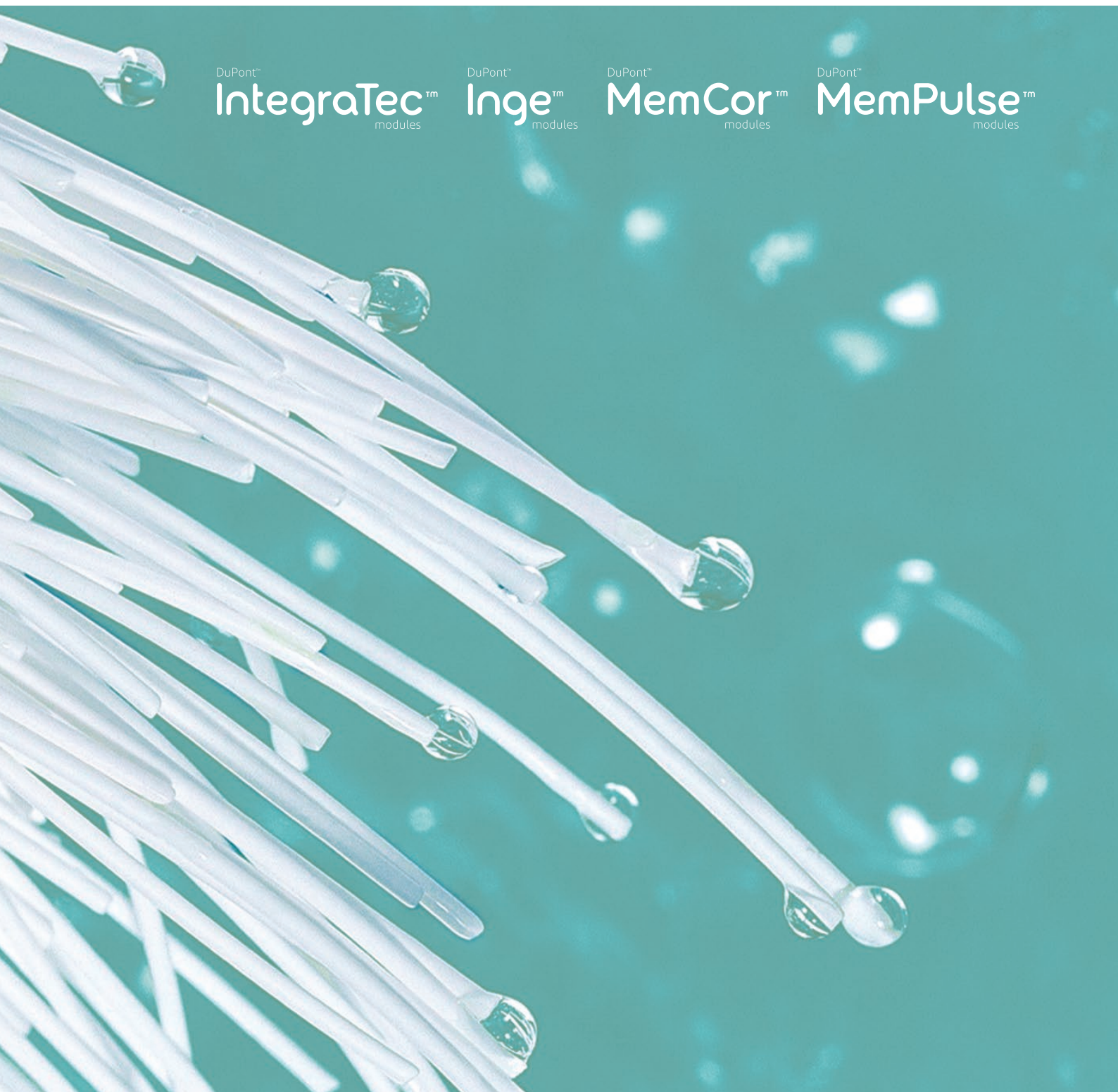
# DuPont Ultrafiltration Capabilities

DuPont™  
**IntegraTec™**  
modules

DuPont™  
**Inge™**  
modules

DuPont™  
**MemCor™**  
modules

DuPont™  
**MemPulse™**  
modules



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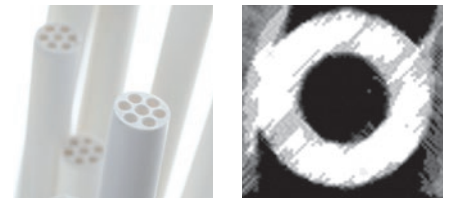
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# DuPont Ultrafiltration Capabilities

## DuPont Ultrafiltration

### Leading globally in Ultrafiltration (UF) Technology

- ▶ Broad installation base totaling >4,000 installations
- ▶ Diverse set of products for a wide range of applications



DuPont has market leading UF portfolio that combines 4 industry-leading brands and portfolios with over 90 years of accumulated experience and knowledge in the industry

**40+**

Scientists & engineers

**200+**

Patents

**4000+**

Global references

**4**

● R&D sites

**3**

▶ Manufacturing sites

**1MM+**

Modules installed

**65MM**

m<sup>3</sup>/day of water produced



#### Global competencies

Global manufacturing capabilities

World class technical service and application development

UF modeling capabilities

Pilot and testing facilities and demonstration units

Operational support

# A versatile portfolio providing application back solutions

## Why choose DuPont™ Ultrafiltration Solutions?

### Membrane excellence

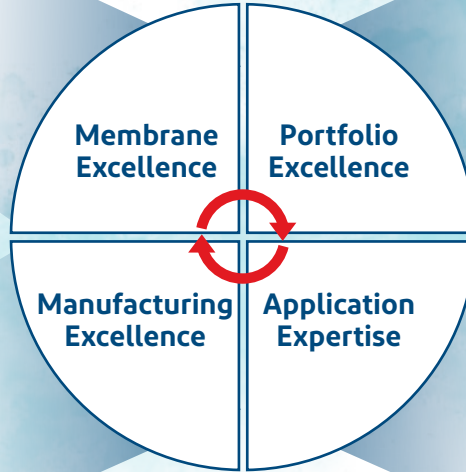
#### Suited to solve diverse challenges

- PVDF, PES and PP Chemistry
- Industrial, municipal, and desalination applications
- Large team of R&D specialists focused on UF development

### Manufacturing excellence

#### Trusted quality with worldwide production

- 3 manufacturing facilities
- High quality standards
- More than 90 accumulated years of experience
- 40+ drinking water regulatory certifications



### Ultrafiltration fiber

#### Range of UF configurations

- Pressurized and submerged modules and racks
- Separation and biological process
- Support for engineering & system design

### Application expertise

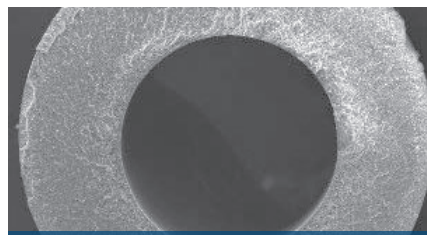
#### Customer support solutions

- 40 pilots globally located
- Dedicated regional technical support
- 5 regional labs
- Digital system design tools (WAVE, Memsize™)

## Solving water treatment challenges with membrane excellence

### Decades of fiber design experience

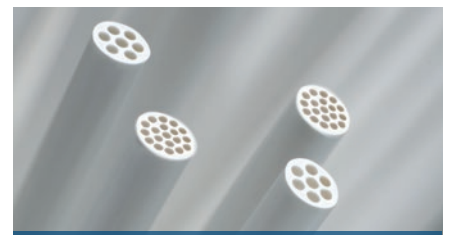
- Diverse membrane chemistries
- Proven results with large installed reference base
- Certified pathogen rejection



**PVDF**

#### PVDF "Polyvinylidene fluoride"

- High fouling resistance
- High oxidation resistance
- High recovery



**PES**

#### PES: Polyethersulfone

- Low energy
- High mechanical strength
- High pathogen rejection

## Reliable & durable range of modules & racks configurations

### Module & Potting

- Excellent hydraulics and filtration performance
- Robustness, integrity & stability
- Effective backwash and cleaning
- Diverse module configurations to fit customer requirements



### Racks & Skids

- Optimized flow distribution
- Simple installation
- Designed for durability and regional fit
- Maximized footprint productivity
- Scalable and economic



# World class UF manufacturing & quality

## Manufacturing excellence in 3 production plants

**Huzhou, China**






- 25+ years
- PVDF/Out-In technology
- Pressurized & Integrated UF

**Windsor, Australia**




- 42+ years of UF manufacturing
- PVDF/Out-In technology
- Pressurized & Submerged UF

**Greifenberg, Germany**


- 25+ years of UF manufacturing
- PES/In-Out technology
- Pressurized, Integrated & Submerged UF

## Expertise beyond the product



**WAVE PRO projection software**

- 75+ TS&D personnel globally
- Engineering support
- Projections, designs, layouts
- Projection software: RO, UF & IER



**Water Academy**

- Water education resource
- Application, technology and design best practices
- 30+ Webinars available online

"Great presentation! Very good information even after 10 years in the industry I learned a lot."

"Excellent presentation. I'm looking forward to the next sessions, thank you for the top-notch Leadership in Water."



**Extensive experience**  
with advanced expertise in application innovation

- 4 world class application centers
- Real world testing conditions
- Industrial scale assets
- World class analytical lab
- System Optimization Services (SOS)
- Product & application experts

Greiffenberg, Germany  
Tarragona, Spain  
Huzhou, China  
Windsor, Australia

## Application based portfolio

DuPont™

**IntegraTec™**  
modules

IntegraTec™ Brand: features robust ultrafiltration backed by global expertise in process and wastewater management, for consistent quality and dependable customer experience.



DuPont™

**Inge™**  
modules

Inge™ Brand: delivers high-quality proven products, to utilities and engineering companies looking to maximize water investment value through application support, long service life and reliable rejection.



DuPont™

**MemCor™**  
modules

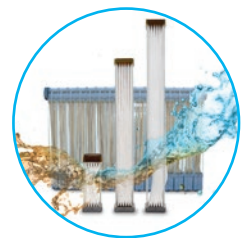
MemCor™ Brand: provides engineered solutions with end-to-end project support, designed for utilities and contractors who value process knowledge and reliable systems.



DuPont™

**MemPulse™**  
modules

MemPulse™ Brand: specializes energy-efficient membrane bioreactor (MBR) solutions, ensuring high recovery rate and optimized operational performance.



# DuPont™ IntegraTec™ Modules

## PVDF-UF scalable IntegraTec™ IP racks and modules

### IP Rack

#### Components

- PVC filtrate and air scour pipes
- Air scour tubing and DIN & ANSI connections
- Connecting flanges
- Frames with fastening nuts & bolts

#### Features

- Scalable to fit 6 – 22 modules
- Easily accessible
- Clear filtrate pipes
- Ships unassembled
- High pressure rating
- Corrosion resistant materials
- Modular for ease of integration



### IP UF Modules

#### XP 77 IP

- 77 m<sup>2</sup> filtration area
- 8" (D) x 80" (H) size
- 0.03 μm pore size fiber
- Suitable for medium to large size plants

#### XP 51 IP

- 51 m<sup>2</sup> filtration area
- 8" (D) x 60" (H) size
- 0.03 μm Pore size fiber
- Suitable for containerized or height restricted sites

## PVDF-UF open platform modules

### Standard

#### XTP 100

- 100 m<sup>2</sup> filtration area
- 8" (D) x 80" (H) size
- 0.03 μm pore size fiber
- Suitable for racks built by customers for large size plants

#### XP 77

- 77 m<sup>2</sup> filtration area
- 8" (D) x 80" (H) size
- 0.03 μm pore size fiber
- Suitable for racks built by customers for medium to large size plants

#### XP 51

- 51 m<sup>2</sup> filtration area
- 8" (D) x 60" (H) size
- 0.03 μm pore size fiber
- Suitable for racks built by customers for containerized or height restricted sites



### Adaptive

#### AM L40N v2

- 67 m<sup>2</sup> filtration area
- 7" (D) x 70" (H) size
- 4 adaptive end-caps
- Suitable for new systems, containerized systems, or retrofit existing racks with PVDF

#### XP 55 UXA

- 55 m<sup>2</sup> filtration area
- 6" (D) x 80" (H) size
- 4 adaptive end-caps
- Suitable for compact racks built by customers or replace other PVDF modules

# DuPont™ IntegraTec™ Modules

## PVDF-UF filters for multi-elements vessels

### Components

#### XP 52 IC Modules

- 52 m<sup>2</sup> filtration area
- 6" (D) x 80" (H) size
- 0.03 µm proven XP fiber

#### GRP Vessels:

- Various sizes & Pressure ratings
- Various base configuration

#### Integrated Self Cleaning Filter



### Features

- Outdoor installation with limited civil investment
- Extended engineering & service packages
- High water recovery
- Low energy consumption
- Scalable & easy to assemble
- Flexible designs to suit various layouts
- Quick & simple to maintain
- Compact footprint

# DuPont™ Inge™ Modules

## PES-UF Streamlined TR Rack (TR) offering

### TR Rack

#### Components

- Bottom frame & connecting brace
- Top cross brace
- Feed & drain integrated end caps
- Module connecting parts
- Filtrate header

#### Features

- Long and Short versions
- Safe, reliable & easy to assemble
- Lightweight
- Reduced shipping costs and assembly time
- High pressure rating
- Highest corrosion resistance class (C5)



### TR Modules

#### MB PRO XL 95 TR

#### MB PRO XL 95i TR\*

- 95 m<sup>2</sup> filtration area
- 10" (D) x 83" (H) size
- 0.02 µm innovative Inge™ MB PRO 0.7 fiber
- Suitable for large desal & drinking water plants

#### MB 0.9 XL 80 TR

#### MB 0.9 XL 80i TR\*

- 80 m<sup>2</sup> filtration area
- 10" (D) x 83" (H) size
- 0.02 µm Inge™ MB 0.9 fiber
- Suitable for medium to large size plants

#### MB 1.5 XL 50 TR

- 50 m<sup>2</sup> filtration area
- 10" (D) x 83" (H) size
- 0.02 µm Inge™ MB 1.5 fiber
- Suitable for high TSS water filtration



### TRS Modules short solution

#### MB PRO XL 82 TRS

#### MB PRO XL 82i TRS\*

- 82 m<sup>2</sup> filtration area
- 10" (D) x 74" (H) size
- 0.02 µm innovative Inge™ MB PRO 0.7 fiber
- Suitable for height restricted sites

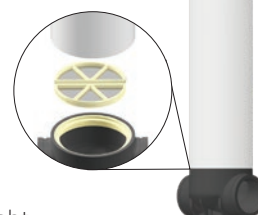
#### MB 0.9 XL 60 TRS

#### MB 0.9 XL 60i TRS\*

- 60 m<sup>2</sup> filtration area
- 10" (D) x 74" (H) size
- 0.02 µm Inge™ MB 0.9 fiber
- Suitable for height restricted sites

#### MB 1.5 XL 40 TRS

- 40 m<sup>2</sup> filtration area
- 10" (D) x 74" (H) size
- 0.02 µm Inge™ MB 1.5 fiber
- Suitable for high TSS water filtration for height restricted sites installations



\* Module with integrated 230 µm Pre-Filter

# DuPont™ Inge™ Modules

## PES-UF Open Platform modules offering

### Standard

MB PRO XL 95 OP	MB PRO XL 82 OP	MB 0.9 XL 80 OP	MB 0.9 XL 60 OP
<ul style="list-style-type: none"> <li>- 95 m<sup>2</sup> filtration area</li> <li>- 10" (D) x 75" (H) size</li> <li>- 0.02 µm innovative Inge™ MB PRO 0.7 fiber</li> <li>- Suitable for large desal &amp; drinking water plants</li> </ul>	<ul style="list-style-type: none"> <li>- 82 m<sup>2</sup> filtration area</li> <li>- 10" (D) x 66" (H) size</li> <li>- 0.02 µm innovative Inge™ MB PRO 0.7 fiber</li> <li>- Suitable for containerized or height restricted sites</li> </ul>	<ul style="list-style-type: none"> <li>- 80 m<sup>2</sup> filtration area</li> <li>- 10" (D) x 75" (H) size</li> <li>- 0.02 µm Inge™ MB 0.9 fiber</li> <li>- Suitable for medium to large size plants</li> </ul>	<ul style="list-style-type: none"> <li>- 60 m<sup>2</sup> filtration area</li> <li>- 10" (D) x 66" (H) size</li> <li>- 0.02 µm Inge™ MB 0.9 fiber</li> <li>- Suitable for containerized or height restricted sites</li> </ul>
MB 1.5 XL 40 OP	MB 0.9 XL 38 OP	MB 1.5 XL 25 OP	
<ul style="list-style-type: none"> <li>- 40 m<sup>2</sup> filtration area</li> <li>- 10" (D) x 66" (H) size</li> <li>- 0.02 µm Inge™ MB 1.5 fiber</li> <li>- Suitable for High TSS water filtration</li> </ul>	<ul style="list-style-type: none"> <li>- 38 m<sup>2</sup> filtration area</li> <li>- 10" (D) x 40" (H) size</li> <li>- 0.02 µm Inge™ MB 0.9 fiber</li> <li>- Suitable for small plant size</li> </ul>	<ul style="list-style-type: none"> <li>- 25 m<sup>2</sup> filtration area</li> <li>- 10" (D) x 46" (H) size</li> <li>- 0.02 µm Inge™ MB 1.5 fiber</li> <li>- Suitable for high TSS water filtration in small plant size</li> </ul>	



### Non - Standard

#### MB 0.9 L 55 V

- 55 m<sup>2</sup> filtration area
- 8.7" (D) x 67" (H) size
- 0.02 µm Inge™ MB 0.9 fiber
- Suitable for medium to large size plants



# DuPont™ Inge™ Modules

## PES-UF Horizontal Modules Suitable for retrofits and upgrades

### MB PRO L 64 H

- 64 m<sup>2</sup> filtration area
- 8.7" (D) x 61" (L) size
- 0.02 µm innovative Inge™ MB PRO 0.7 fiber

### MB 0.9 L 55 H

- 55 m<sup>2</sup> filtration area
- 8.7" (D) x 61" (L) size
- 0.02 µm Inge™ MB 0.9 fiber

### MB 0.9 L 40 HB

- 40 m<sup>2</sup> filtration area
- 7.9" (D) x 60" (L) size
- 0.02 µm Inge™ MB 0.9 fiber



## PES-UF Submerged Modules Suitable for retrofits and upgrades

### Submerged MB Rack

#### Components

- Bottom frame
- Connecting brace
- Top cross brace & filtrate header
- Module connecting parts
- Lifting and suspension points

#### Features

- Simple and quick to install
- Modular standardized design
- High grade stainless steel
- High pressure resistant



### MB PRO L 72 S

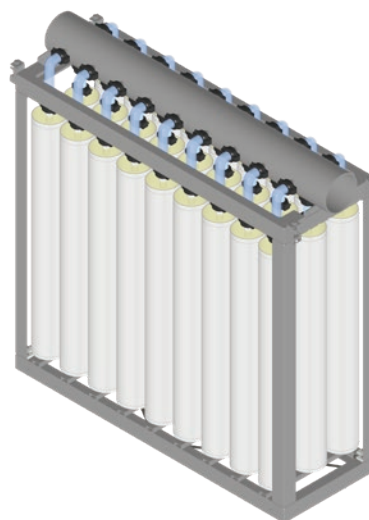
- 72 m<sup>2</sup> filtration area
- 8.7" (D) x 61" (L) size
- 0.02 µm innovative Inge™ MB PRO 0.7 fiber

### MB PRO L 64 S

- 64 m<sup>2</sup> filtration area
- 8.7" (D) x 61" (L) size
- 0.02 µm innovative Inge™ MB PRO 0.7 fiber

### MB 0.9 L 55 S

- 55 m<sup>2</sup> filtration area
- 8.7" (D) x 61" (L) size
- 0.02 µm Inge™ MB 0.9 fiber



# DuPont™ MemCor™ Modules

## PVDF-UF pre-assembled MemCor™ CPlI racks and modules

### Components

#### Fully assembled racks with

- Molded nylon rack headers
- ABS module housing center tube
- Mechanical fittings & accessories
- Painted, mild steel support skids

#### L40N v2 & L40N Modules

- 68 m<sup>2</sup> & 67 m<sup>2</sup> filtration area
- 7" (D) x 70" (H) size
- 0.03 μm Proven N Fiber



### Features

- Up to 36 L40N modules per rack
- Self-supporting, self-manifolded for rapid installation
- Multiple configurations to fit a specific site
- Top and side module access point for ease of maintenance
- Standard seismic design
- Up to 5.0 bar operational pressure
- Most compact design for large scale projects
- Highly efficient air push backwash



## PVDF-UF pre-assembled MemCor™ submerged CS & CSII racks and modules

### Components

#### Pre-engineered nylon racks

#### In-tank rack support hardware

#### L20N v2 & L20N Modules

- 42 m<sup>2</sup> & 34.8 m<sup>2</sup> filtration area
- 4.7" (D) x 70" (H) size
- 0.04 μm Innovative N fiber
- Suitable for CSII Racks

#### S10N v2 Modules

- 28 m<sup>2</sup> filtration area
- 5" (D) x 47" (H) size
- 0.04 μm Innovative N fiber
- Suitable for CS Racks



### Features

- Up to 44 modules per rack
- Scalable building blocks
- High solids handling capacity
- Single step direct coupling to RO
- Low total cost of ownership
- Low energy consumption
- Most compact footprint



# DuPont™ MemPulse™ Modules

## DuPont™ MemPulse™ B50N membrane bioreactor module

### Components

- 50 m<sup>2</sup> active membrane area
- 8" (D) x 78.8" (L) size
- 0.04 µm membrane pore size

### Features

- Very large single non-cassette module area
- High packing density with high solid loading tolerance
- High quality effluent
- Energy-efficient aeration design with low maintenance & operation costs
- Optimized design to suit large size installations
- Robust fibers that do not require slack adjustment
- In-tank cleaning



## DuPont™ MemPulse™ B40N membrane bioreactor module

### Components

- 40 m<sup>2</sup> active membrane area
- 8" (D) x 63" (L) size
- 0.04 µm membrane pore size

### Features

- Large single non-cassette module area
- High packing density with high solid loading tolerance
- High quality effluent
- Energy-efficient aeration design with low maintenance & operation costs
- Optimized design to suit large size installations
- Robust fibers that do not require slack adjustment
- In-tank cleaning.



Water Solutions

[www.dupontwatersolutions.com](http://www.dupontwatersolutions.com)

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