

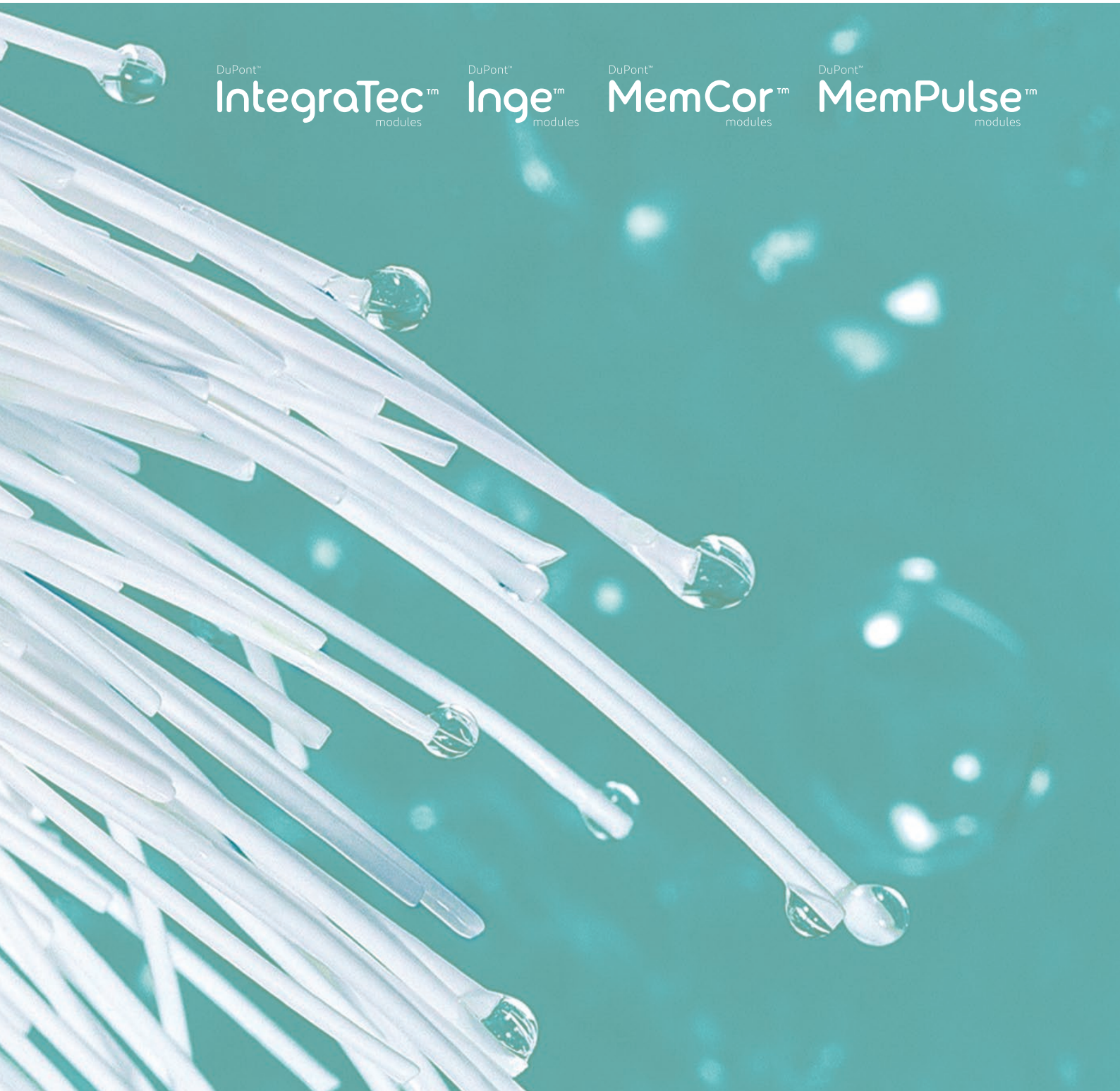
DuPont Ultrafiltration Capabilities

DuPont™
IntegraTec™
modules

DuPont™
Inge™
modules

DuPont™
MemCor™
modules

DuPont™
MemPulse™
modules



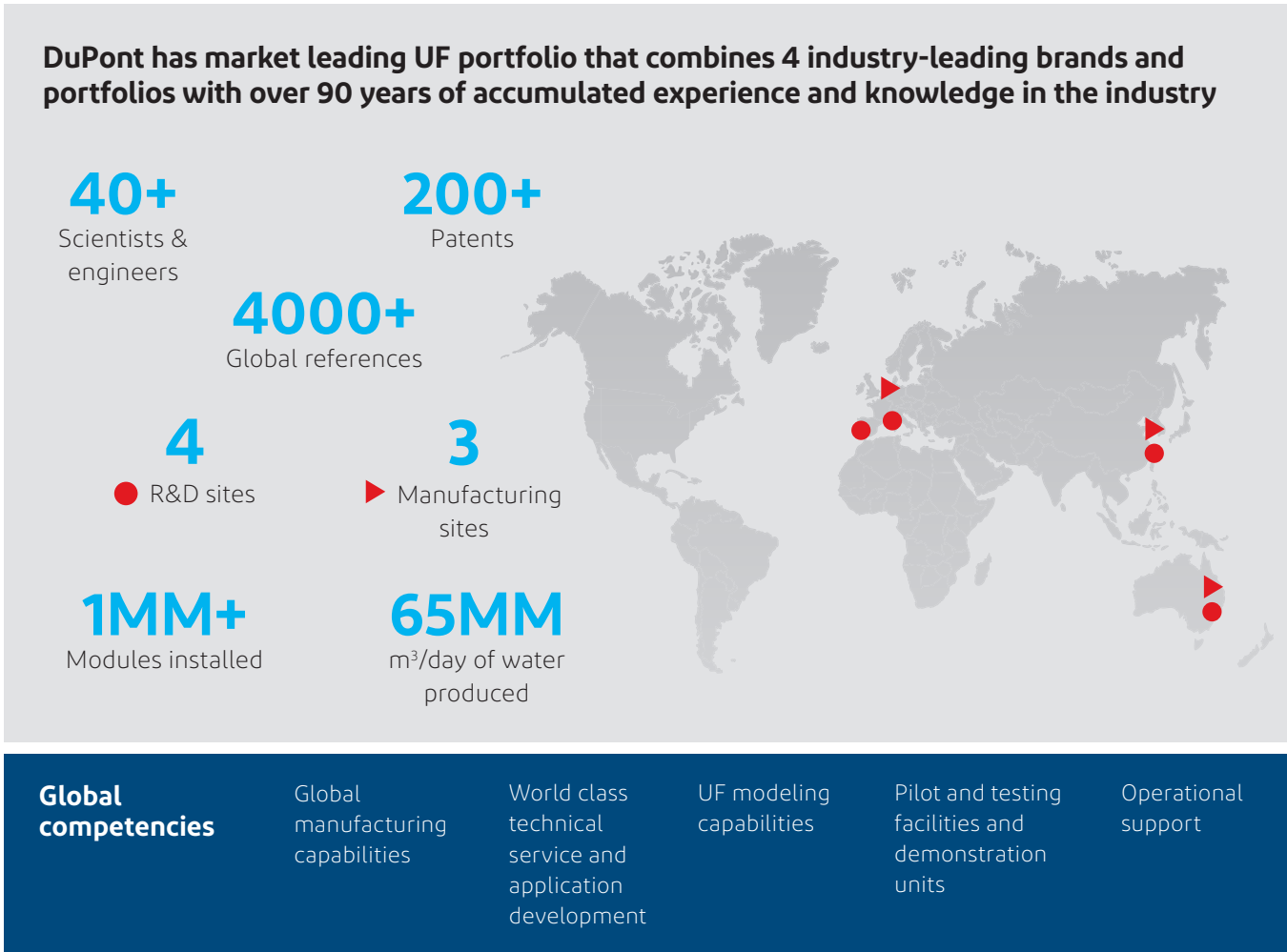
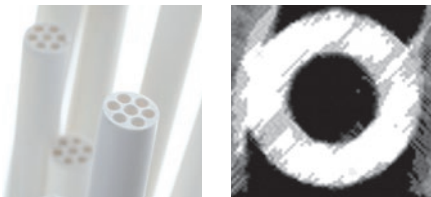
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DuPont Ultrafiltration Capabilities

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



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

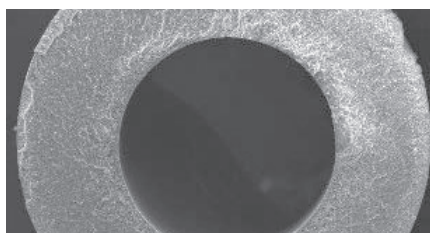
Customer support solutions

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

Solving water treatment challenges with membrane excellence

Decades of fiber design experience

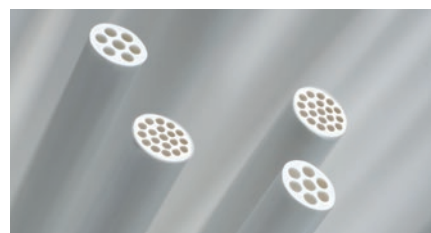
- Diverse membrane chemistries
- Proven results with large installed reference base
- Certified pathogen rejection



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



"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."

Water Academy

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



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

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

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.

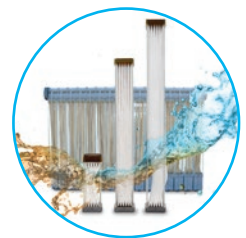


DuPont™

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 m² (829 ft²) filtration area
- 225 mm (8.9 inch) (D) x 2,491 mm (98 inch) (H) size
- 0.03 µm pore size fiber
- Suitable for medium to large size plants

XP 51 IP

- 51 m² (549 ft²) filtration area
- 225 mm (8.9 inch) (D) x 1,991 mm (78.4 inch) (H) size
- 0.03 µm pore size fiber
- Suitable for containerized or height restricted sites

PVDF-UF open platform modules

Standard

XTP 100

- 100 m² (1,076 ft²) filtration area
- 225 mm (8.9 inch) (D) x 2,323 mm (91 inch) (H) size
- 0.03 µm pore size fiber
- Suitable for racks built by customers for large size plants



XP 77

- 77 m² (829 ft²) filtration area
- 225 mm (8.9 inch) (D) x 2,323 mm (91 inch) (H) Size
- 0.03 µm pore size fiber
- Suitable for racks built by customers for medium to large size plants



XP 51

- 51 m² (549 ft²) filtration area
- 225 mm (8.9 inch) (D) x 1,863 mm (73.3 inch) (H) size
- 0.03 µm pore size fiber
- Suitable for racks built by customers for containerized or height restricted sites



Adaptive

AM L40N v2

- 67.9 m² (731 ft²) filtration area
- 188 mm (7.4 inch) (D) x 1,919 mm (75.6 inch) (H) size
- 4 adaptive end-caps
- Suitable for new systems, containerized systems, or retrofit existing racks with PVDF

XP 55 UXA

- 55 m² (592 ft²) filtration area
- 165 mm (6.5 inch) (D) x 2,418 mm (95 inch) (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 m² (560 ft²) filtration area
- 160 mm (6.3 inch) (D) x 2,265 mm (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 m² filtration area
- 250 mm x 2,101 mm 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 m² filtration area
- 250 mm x 2,101 mm size*
- 0.02 µm Inge™ MB 0.9 fiber
- Suitable for medium to large size plants

MB 1.5 XL 50 TR

- 50 m² filtration area
- 250 mm x 2,101 mm 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 m² filtration area
- 250 mm x 1,879 mm size*
- 0.02 µm innovative Inge™ MB PRO 0.7 fiber
- Suitable for height restricted sites

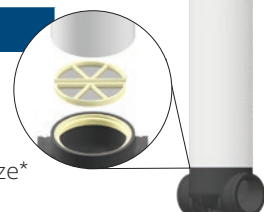
MB 0.9 XL 60 TRS

MB 0.9 XL 60i TRS**

- 60 m² filtration area
- 250 mm x 1,879 mm size*
- 0.02 µm Inge™ MB 0.9 fiber
- Suitable for height restricted sites

MB 1.5 XL 40 TRS

- 40 m² filtration area
- 250 mm x 1,879 mm size*
- 0.02 µm Inge™ MB 1.5 fiber
- Suitable for high TSS water filtration for height restricted sites installations



* Size = Diameter (D) x Height (H)

** Module with integrated 230 µm Pre-Filter

DuPont™ Inge™ Modules

PES-UF Open Platform modules offering

Standard

MB PRO XL 95 OP	MB 0.9 XL 80 OP	MB PRO XL 82 OP
– 95 m² filtration area – 250 mm (D) x 1,914 mm (H) size – 0.02 µm innovative Inge™ MB PRO 0.7 fiber – Suitable for large desal & drinking water plants	– 80 m² filtration area – 250 mm (D) x 1,914 mm (H) size – 0.02 µm Inge™ MB 0.9 fiber – Suitable for medium to large size plants	– 82 m² filtration area – 250 mm (D) x 1,679 mm (H) size – 0.02 µm innovative Inge™ MB PRO 0.7 fiber – Suitable for height restricted sites
MB 0.9 XL 60 OP	MB 1.5 XL 40 OP	MB 1.5 XL 25 OP
– 60 m² filtration area – 250 mm (D) x 1,679 mm (H) size – 0.02 µm Inge™ MB 0.9 fiber – Suitable for height restricted sites	– 40 m² filtration area – 250 mm (D) x 1,679 mm (H) size – 0.02 µm Inge™ MB 1.5 fiber – Suitable for High TSS water filtration	– 25 m² filtration area – 250 mm (D) x 1,179 mm (H) size – 0.02 µm Inge™ MB 1.5 fiber – Suitable for high TSS water filtration in small plant size



Special

MB 0.9 L 55 V	MB PRO L 64 V
– 55 m² filtration area – 220 mm (D) x 1,898 mm (H) size – 0.02 µm Inge™ MB 0.9 fiber – Suitable for medium to large size plants	– 64 m² filtration area – 220 mm (D) x 1,898 mm (H) size – 0.02 µm innovative Inge™ MB PRO 0.7 Fiber – Inclusive of special kit to suit replacing other PES modules



DuPont™ Inge™ Modules

PES-UF Horizontal Modules Suitable for retrofits and upgrades

MB PRO L 64 H

- 64 m² filtration area
- 220 mm (D) x 1,537 mm (L) size
- 0.02 µm innovative Inge™ MB PRO 0.7 fiber

MB 0.9 L 55 H

- 55 m² filtration area
- 220 mm (D) x 1,537 mm (L) size
- 0.02 µm Inge™ MB 0.9 fiber

MB 0.9 L 40 HB

- 40 m² filtration area
- 220 mm (D) x 1,537 mm (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 m² filtration area
- 220 mm (D) x 1,720 mm (L) size
- 0.02 µm innovative Inge™ MB PRO 0.7 fiber

MB PRO L 64 S

- 64 m² filtration area
- 220 mm (D) x 1,537 mm (L) size
- 0.02 µm innovative Inge™ MB PRO 0.7 fiber

MB 0.9 L 55 S

- 55 m² filtration area
- 220 mm (D) x 1,537 mm (L) size
- 0.02 µm Inge™ MB 0.9 fiber



DuPont™ MemCor™ Modules

PVDF-UF pre-assembled MemCor™ CII 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

- 67.9 m² (731 ft²) & 67 m² (721 ft²) filtration area
- 182 mm (7.2 inch) (D) x 1,800 mm (70.9 inch) (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

- 42.1 m² (453 ft²) & 34.8 m² (375 ft²) filtration area
- 119 mm (4.7 inch) (D) x 1,800 mm (70.9 inch) (H) size
- 0.04 µm Innovative N fiber
- Suitable for CSII Racks

S10N v2 Modules

- 28.1 m² (302 ft²) filtration area
- 130 mm (5.1 inch) (D) x 1,195 mm (47.0 inch) (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 m² (538.2 ft²) filtration area
- 203 mm (8 inch) (W/D) x 2,000 mm (78.8 inch) (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 m² (431 ft²) filtration area
- 203 mm (8 inch) (W/D) x 2,000 mm (78.8 inch) (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

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