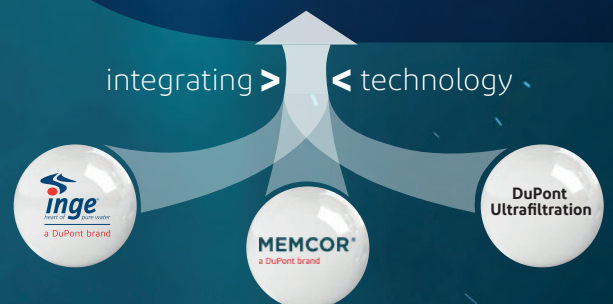


DuPont™ IntegraTec™ Ultrafiltration Capabilities

IntegraTec™



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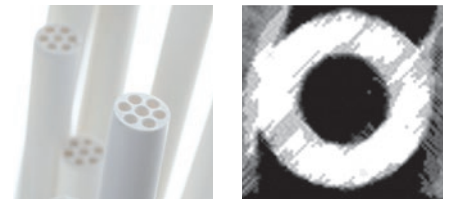


DuPont™ IntegraTec™ Ultrafiltration Capabilities

IntegraTec™ Ultrafiltration

a new global leader in Ultrafiltration (UF) Technology

- ▶ Broad installation base totaling >3,000 installations
- ▶ Diverse set of products for a wide range of applications



DuPont has created a UF portfolio that combines 3 industry-leading brands and portfolios with over 85 years of accumulated experience and knowledge in the industry

40+

Scientists & engineers

200+

Patents

3000+

Global references

4

● R&D sites

3

▶ Manufacturing sites

700K+

Modules installed

50MM

m³/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 that delivers reliable solutions

Why choose DuPont™ IntegraTec™ 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 85 years of experience
- 40+ drinking water regulatory certifications



Hollow Fiber

Range of UF configurations

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

Application Expertise

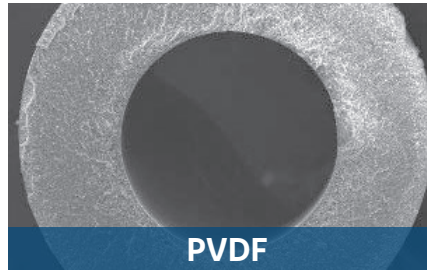
Customer support solutions

- 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 virus 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





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

Windsor, Australia





- 35+ years of UF manufacturing
- PVDF/Out-In technology
- Pressurized and Submerged UF

Greifenberg, Germany






- 20+ years of UF manufacturing
- PES/In-Out technology
- Pressurized & Integrated UF

Expertise beyond the product



WAVE projection software

- 75+ TS&D personnel globally
- Engineering support
- Drawings, layouts, designs, projections, P&ID
- 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



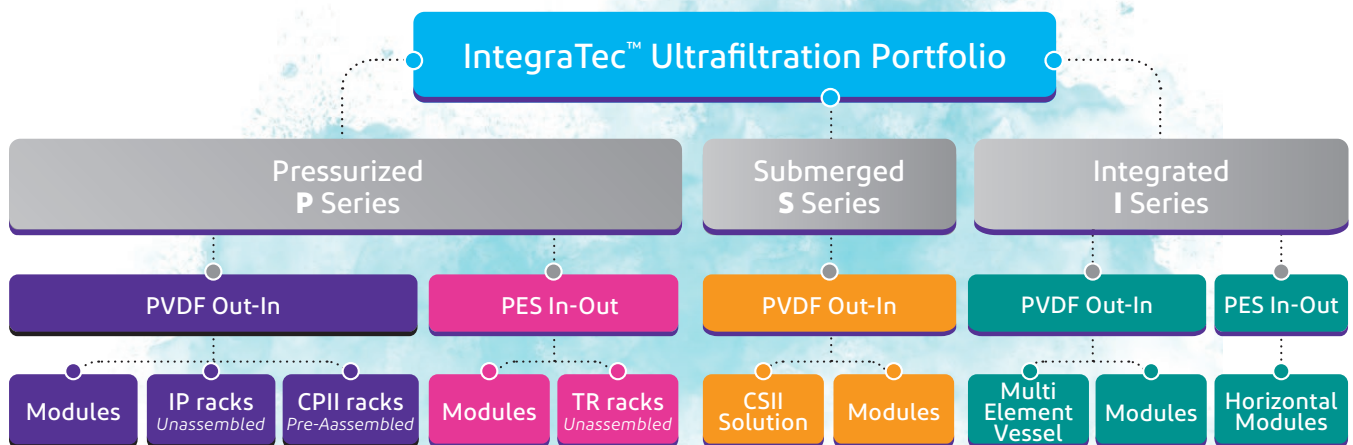
Greifenberg, Germany
Tarragona, Spain
Huzhou, China
Windsor, Australia

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

Portfolio overview



DuPont™ IntegraTec™ P Series

PVDF UF Out-In

PVDF open platform modules

Standard

XP 77

- 77 m² 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



Adaptive

N 67 AM

- 67 m² 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 51

- 51 m² 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



XP 55 UXA

- 55 m² filtration area
- 6" (D) x 80" (H) size
- 3 adaptive end-caps
- Suitable for compact racks built by customers or replace other PVDF modules



PVDF DuPont™ IntegraPac™ IP Racks

IP Rack

Components

- PVC filtrate and air scour pipes
- Air scour tubing and DN connectors
- 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 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 m² filtration area
- 8" (D) x 60" (H) size
- 0.03 µm Pore size fiber
- Suitable for containerized or height restricted sites

DuPont™ IntegraTec™ P Series

PVDF UF Out-In

PVDF pre-assembled compact CPlI Racks

Components

N 67 Modules

- 67 m² filtration area
- 7" (D) x 70" (H) size
- 0.03 µm Proven N Fiber

Fully assembled racks with

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



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



DuPont™ IntegraTec™ P Series

PES In-Out

PES Open Platform modules offering

Standard

MB PRO 95

- 95 m² filtration area
- 10" (D) x 75" (H) size
- 0.02 μm innovativ Multibore™ PRO fiber
- Suitable for large desal & drinking water plants

MB PRO 82

- 82 m² filtration area
- 10" (D) x 66" (H) size
- 0.02 μm innovativ Multibore™ PRO fiber
- Suitable for containerized or height restricted sites

MB 80

- 80 m² filtration area
- 10" (D) x 75" (H) size
- 0.02 μm Multibore™ fiber
- Suitable for medium to large size plants

MB 60

- 60 m² filtration area
- 10" (D) x 66" (H) size
- 0.02 μm Multibore™ fiber
- Suitable for containerized or height restricted sites

MB 40

- 40 m² filtration area
- 10" (D) x 66" (H) size
- 0.02 μm Multibore™ fiber
- Suitable for High TSS water filtration

MB 38

- 38 m² filtration area
- 10" (D) x 40" (H) size
- 0.02 μm Multibore™ fiber
- Suitable for small plant size

MB 25

- 25 m² filtration area
- 10" (D) x 46" (H) size
- 0.02 μm Multibore™ fiber
- Suitable for high TSS water filtration in small plant size



Special

MB 55

- 55 m² filtration area
- 8,7" (D) x 67" (H) size
- 0.02 μm Multibore™ fiber
- Suitable for medium to large size plants



DuPont™ IntegraTec™ P Series

PES In-Out

PES Streamlined T-Rack™ (TR) offering

TR Modules

MB PRO 95 TR

- 95 m² filtration area
- 10" (D) x 83" (H) size
- 0.02 µm innovative Multibore™ PRO fiber
- Suitable for large desal & drinking water plants

MB 80 TR

- 80 m² filtration area
- 10" (D) x 83" (H) size
- 0.02 µm Multibore™ fiber
- Suitable for medium to large size plants

MB 50 TR

- 50 m² filtration area
- 10" (D) x 83" (H) size
- 0.02 µm Multibore™ fiber
- Suitable for high TSS water filtration in containerized or height restricted sites installations

TR Module containerized solutions

MB PRO 82 TR S

- 82 m² filtration area
- 10" (D) x 74" (H) size
- 0.02 µm innovative Multibore™ PRO fiber
- Suitable for containerized or height restricted sites

MB 60 TR S

- 60 m² filtration area
- 10" (D) x 74" (H) size
- 0.02 µm Multibore™ fiber
- Suitable for containerized or height restricted sites

MB 40 TR S

- 40 m² filtration area
- 10" (D) x 74" (H) size
- 0.02 µm Multibore™ fiber
- Suitable for high TSS water filtration in containerized or height restricted sites installations



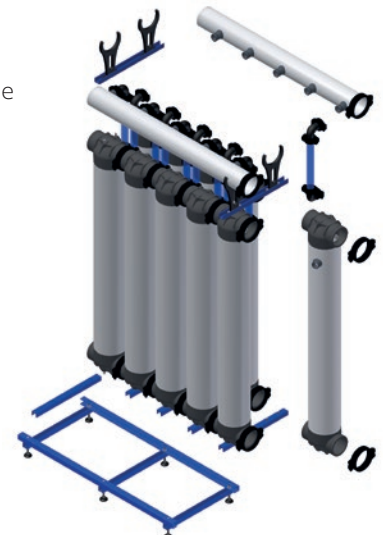
TR Skid

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)



DuPont™ IntegraTec™ S Series

PVDF Out-In

PVDF compact submerged (CS & CSII) offering

Components

N 42 Modules

- 42 m² filtration area
- 4.7" (D) x 70" (H) size
- 0.04 µm Innovative N fiber
- Suitable for CSII Racks

S10N Modules

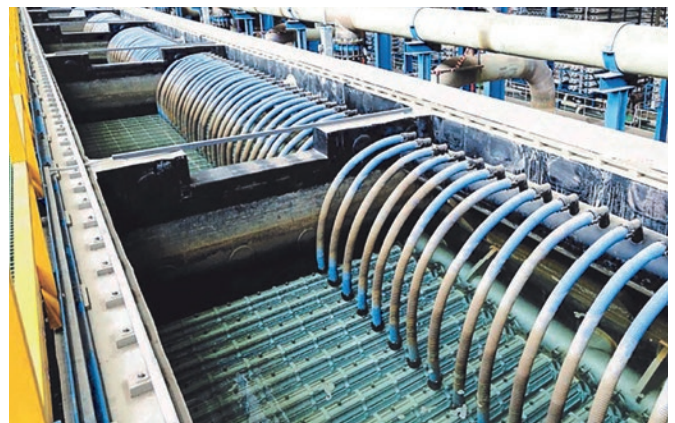
- 28 m² filtration area
- 5" (D) x 47" (H) size
- 0.04 µm Innovative N fiber
- Suitable for CS Racks

Pre-engineered nylon racks

In-tank rack support hardware

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™ IntegraTec™ I Series

PVDF Out-In

PVDF multi-tech filter offering

Components

XP 52 Modules

- 52 m² filtration area
- 6" (D) x 80" (H) size
- 0.03 µm proven XP fiber

GRP Vessels:

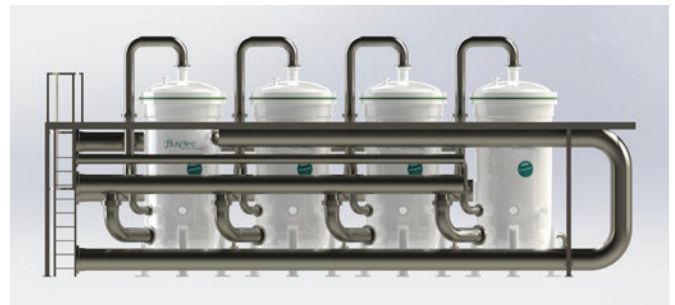
- Various sizes & Pressure ratings
- Various base configuration

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™ IntegraTec™ I Series

PES In-Out

PES Horizontal Modules Suitable for retrofits and upgrades

MB PRO 64 H

- 64 m² filtration area
- 8.7" (D) x 61" (L) size
- 0.02 µm innovative Multibore™ PRO fiber

MB 55 H

- 55 m² filtration area
- 8.7" (D) x 61" (L) size
- 0.02 µm Multibore™ fiber

MB 40 HB

- 40 m² filtration area
- 7.9" (D) x 60" (L) size
- 0.02 µm Multibore™ fiber



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Water Solutions
www.dupontwatersolutions.com

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Form No. 45-D03762-en, Rev. 5 CDP
October 2024