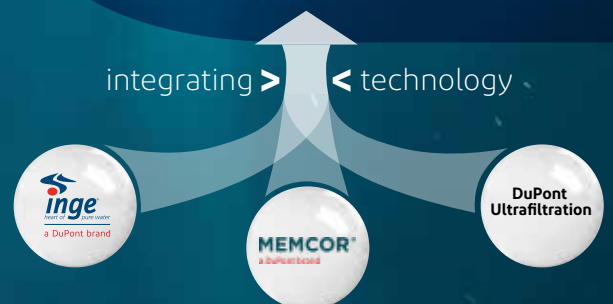


DuPont™ IntegraTec™ Ultrafiltration Capabilities

IntegraTec™



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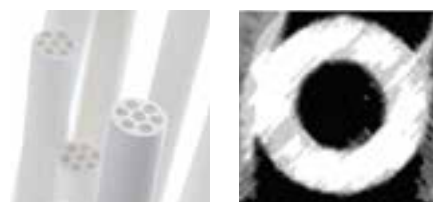


DuPont™ IntegraTec™ Ultrafiltration Capabilities

IntegraTec™ Ultrafiltration

a new global leader in Ultrafiltration (UF) Technology

- ▶ Broadest application cases for leverage total >3,000 Installations
- ▶ One-stop consultation for Multi-tech solutions



DuPont has created a UF portfolio that combines 3 industry leading brands and portfolios to deliver 35 years of experience and knowledge to 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

Membrane excellence

The most versatile portfolio delivers ideal solutions

Why choose DuPont™ IntegraTec™ Ultrafiltration Solutions?

Membrane excellence

Suited to solve all challenges

- PVDF, PES and PP Chemistry
- Industrial, municipal and commercial applications
- Membrane prototyping and chemistry formulation

Manufacturing excellence

Trusted quality with world class production

- 3 manufacturing facilities
- Highest quality standards
- More than 35 years of experience
- 40+ drinking water regulatory certifications



Range of UF configurations

Durable, reliable & best fit solution

- Pressurized, submerged & integrated UF solutions
- Flexible commercial offering: components, racks and system level solutions
- Engineering & system design services

Expertise beyond the product

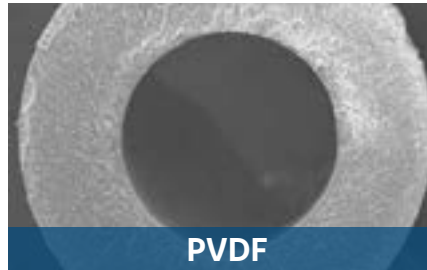
Customer tailored solutions

- 40 pilots globally located
- 75+ technical support professionals
- 40+ R&D specialists
- 5 regional labs
- Interactive tools (water academy, WAVE, iSD, Memsize)

Solving various challenges with membrane excellence

Decades of UF experience

- Industry leading portfolio
- Diverse membrane chemistries
- Solves various filtration challenges
- Proven results and large installed reference base
- Proven solids and pathogen rejection



PVDF

PVDF "Polyvinylidene fluoride"

- High fouling resistance
- High oxidation resistance
- High Recovery



PES

PES: Polyethersulfone

- Low energy
- Highest mechanical strength
- High virus rejection

Reliable & durable range of modules & racks configurations

Module & Potting

- Highest quality standards
- Optimal filtration performance
- Robustness, integrity & stability
- Effectively backwash and cleaning
- Differentiation to fit customer requirements
- Proven experience



Racks & Skids

- Durability & suitability
- Simplify installation
- Maximize productivity
- Scalable and economic
- Suit all geographies



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



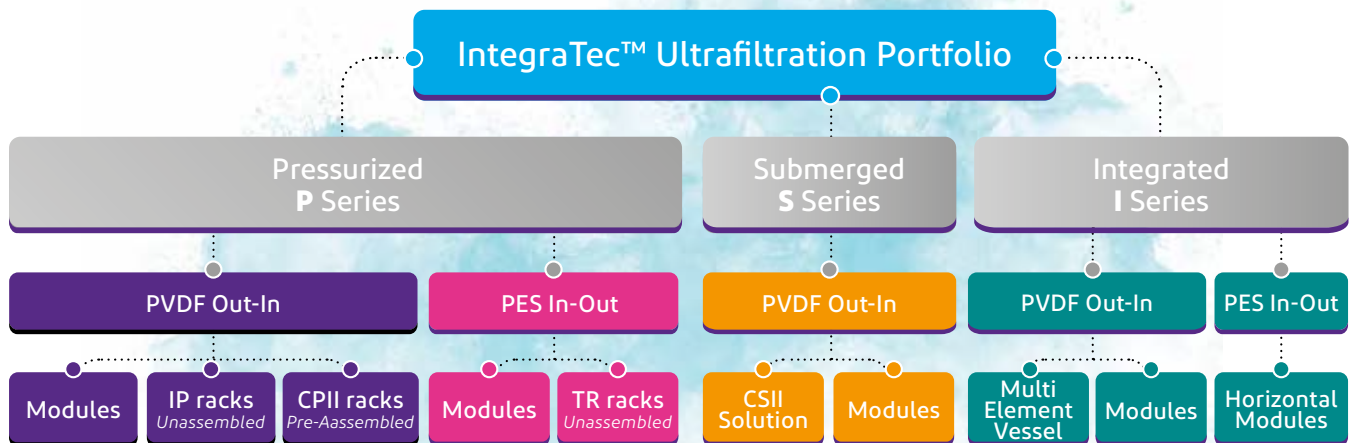
Greifenberg, Germany
Tarragona, Spain
Huzhou, China
Windsor, Australia

Extensive experience

with advanced expertise in application innovation

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

Portfolio overview



DuPont™ IntegraTec™ P Series

PVDF UF Out-In

PVDF open platform modules offering

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

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



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 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 Scalable 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 Streamlined T-Rack™ (TR) offering

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)



TR Modules

MB PRO 95 TR

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

MB 50 TR

- 50 m² filtration area
- 10" (D) x 80" (H) size
- 0.02 µm Multibore™ fiber
- Suitable for containerized or height restricted sites



TR Module containerized solutions

MB 60 TR

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

MB 40 TR

- 40 m² filtration area
- 10" (D) x 60" (H) size
- 0.02 µm Multibore™ fiber
- Suitable for high TSS water filtration in containerized installations

DuPont™ IntegraTec™ P Series

PES In-Out

PES Open Platform modules offering

Standard

MB PRO 95

- 95 m² filtration area
- 10" (D) x 80" (H) size
- 0.02 µm innovativ Multibore™ PRO fiber
- Suitable for large desal & drinking water plants

MB 80

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

MB 60

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

MB 40

- 40 m² filtration area
- 10" (D) x 60" (H) size
- 0.02 µm Multibore™ fiber
- Suitable for High TSS water filtration

MB 25

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



Special

MB 55

- 55 m² filtration area
- 8" (D) x 60" (H) size
- 0.02 µm Multibore™ fiber
- Suitable for medium to large size plants



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:

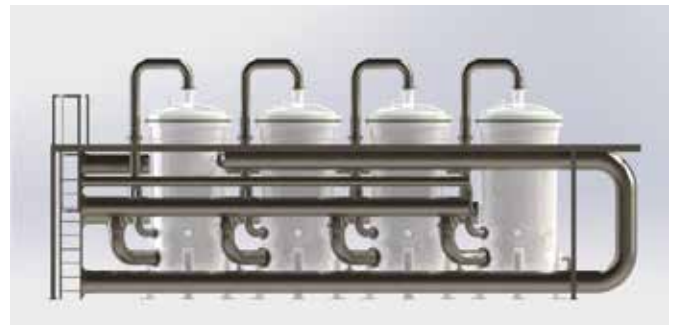
- Various sizes & Pressure ratings
- Various base configuration

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 60" (L) size
- 0.02 µm innovative Multibore™ PRO fiber

MB 55 H

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

MB 40 H

- 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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