

A central graphic depicts a globe with water flowing through it, set within a tunnel of blue spheres and light rays. The background is a deep blue with a perspective of a tunnel made of many small, glowing blue spheres. Light rays emanate from the center, creating a sense of depth and movement. The globe is the focal point, with water flowing through it, symbolizing purity and filtration.

**ENGINEERING FILTRATION ADVANTAGE:  
SETTING THE WORLD'S NEW STANDARD**

# Made in India, Built for the World



Born from Vipul Organics' five decades of manufacturing excellence, Adimem Technologies is driven by a singular mission: to redefine purity. We revolutionize filtration through advanced membrane manufacturing & turnkey system solutions, all built on our proprietary core technology.

## **World-class, Locally Crafted**

We fuse the strength of domestic manufacturing with uncompromising global quality standards, delivering solutions that resonate worldwide.

## **Customer-Driven Innovation**

Your challenges are our blueprint. We craft customized solutions, precisely tailored to your industry's unique and evolving needs.

## **Technology for Sustainability:**

Our membranes are engineered to conserve vital resources & exceed environmental compliance, making sustainability an operational reality.



## Our Technological Edge: The Power of Reverse Phase Transition

Prepare for a filtration revolution. Adimem unleashes globally unmatched pore density, delivering The Pore Advantage – a new, redefined standard of purity. Every Adimem membrane is meticulously crafted in-house using our proprietary Reverse Phase Transition technology. This groundbreaking innovation blends NIPS and TIPS techniques to deliver membranes with:



**Unparalleled filtration power.**



**Precision at every turn.**



**Built to last, engineered for unwavering resilience.**

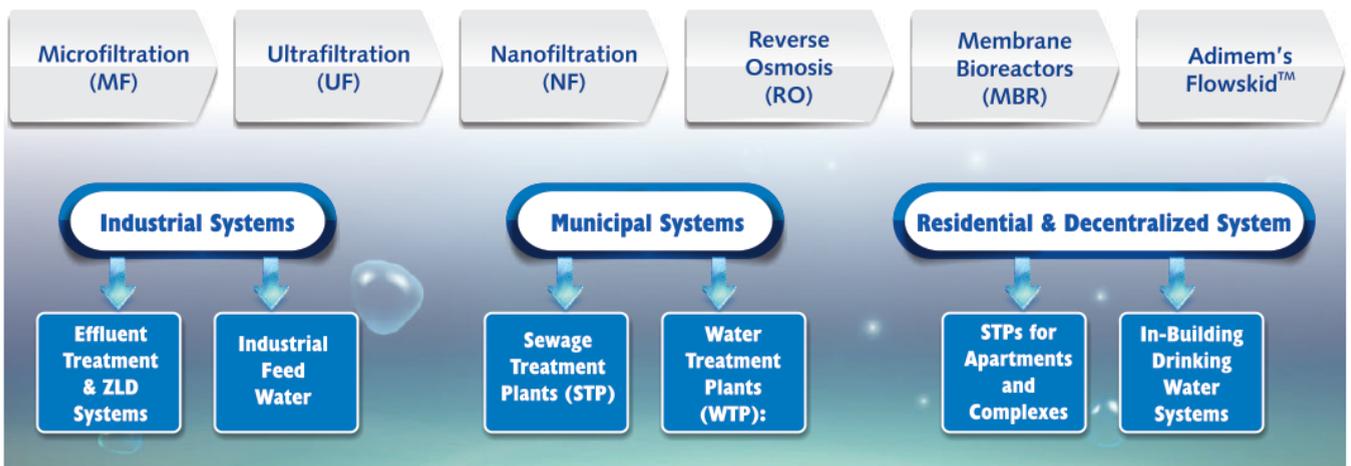


**Cleaner membranes, sustained peak performance, extended operational life.**

These superior properties translate directly into tangible benefits: high flux, low-pressure operation, and dramatically reduced fouling.

The ultimate result? Lower CAPEX, reduced OPEX and minimal maintenance – driven by higher efficiency and extended membrane life. All from a single, trusted manufacturing partner dedicated to your success.

## Our Product Portfolio.



# Microfiltration (MF)

## FLUXA™ MF Series

### Purity's First Line of Defense.

Experience unparalleled clarity and hygiene with our high-performance PVDF spiral wound microfiltration membranes. Designed for the most demanding applications, these membranes deliver superior results for high-purity clarification and sensitive hygienic processes.

### Product Specifications:



Model	Material	Pore Size	Size	Outerwrap Options
AMT-FLUXA™-MF-PVDF-010	PVDF	0.1 µm	8040/4040	Sanitary / FRP
AMT-FLUXA™-MF-PVDF-020	PVDF	0.2 µm	8040/4040	Sanitary / FRP
AMT-FLUXA™-MF-PVDF-045	PVDF	0.45 µm	8040/4040	Sanitary / FRP

Note: Customisable feed spacer thickness

### Lab-Grade MF Flat Sheet (For Research & Diagnostics):



Format	Material	Pore Sizes	Surface Options
8×10 cm sheets, 20×300 cm rolls	PVDF (Hydrophilic / Hydrophobic)	0.1 µm, 0.2 µm, 0.45 µm	Hydrophilic / Hydrophobic



### Applications

- Dairy: Fat & protein separation
- Beverage: Clarification and polishing
- Pharmaceuticals: Sterile filtration, RO pretreatment
- Food Processing: Solids removal
- Labs: Sample prep, Western blotting, Cell culture diagnostics

# Ultrafiltration (UF) – FYBRIN™, FLUXA™ & TUBIONIQ™ Series

## Beyond Clarity: Unlocking Deeper Purity.

Engineered for exceptional performance, our UF membranes offer outstanding fouling resistance, high flux, exceptional selectivity, and long life. These come in all three configurations:

Hollow fibre - FYBRIN™ Series

Spiral wound- FLUXA™ series

Tubular - TUBIONIQ™ Series

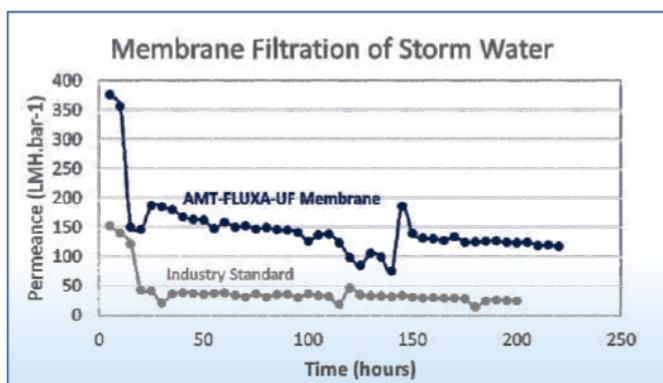
### FYBRIN™ UF – Hollow Fiber Configuration

Model	Material	Flow Direction	MWCO / Pore Size	Membrane Area
AMT-FYBRIN™-UF-PVDF-003	PVDF	Out-to-In	0.03 μm (≈300 kDa)	52 m <sup>2</sup> / 77 m <sup>2</sup>
AMT-FYBRIN™-UF-PES-001	PES	In-to-Out	0.01 μm (≈80 kDa)	50 m <sup>2</sup>



### Applications for FYBRIN™ UF

- STPs / ETPs
- Biotech separations
- Greywater reuse
- Enzyme recovery
- RO pretreatment



Storm Water

Before Adimem's filtration      After Adimem's filtration



## FLUXA™ UF – Spiral Wound Configuration

Model	Material	MWCO	Size	Outerwrap
AMT-FLUXA™-UF-PVDF	PVDF	100 kDa, 300 kDa	8040/4040	Sanitary / FRP
AMT-FLUXA™-UF-PES	PES	2, 4, 6, 10, 20, 65 kDa	8040/4040	Sanitary / FRP

Note: Customisable feed spacer thickness

### Applications for FLUXA™ UF

- Dairy clarification
- Juice clarification
- Protein concentration
- Biotech & pharmaceutical separations
- Cathodic paint recovery
- RO pretreatment



## TUBIONIQ™ UF – Tubular Configuration

Model	Material	Pore Size	Module Sizes
TUBIONIQ™-UF-PVDF-003	PVDF	0.03 μm	8", 10"

### Applications for TUBIONIQ™ UF

- Oil–water separation
- Paint recovery
- Chemical wastewater treatment
- High-solid & viscous stream filtration



## AdiShell™

### Change the Element, Keep the Housing:

For low-pressure applications like FLUXA™ MF and FLUXA™ UF, we offer **cost-effective UPVC housings** as an alternative to traditional FRP or Stainless Steel. This allows users to upgrade or change membrane elements (from MF to UF, or different MWCOs) without replacing the housing—reducing both CAPEX and downtime.



# Nanofiltration (NF) – FLUXA™ NF Series

## Precision Purifier: Selective Separation with Lower Energy.

Bridge the gap between ultrafiltration and reverse osmosis with Adimem Technologies' FLUXA™ NF membranes. These advanced nanofiltration membranes provide precise molecular separation with significantly lower operating pressures and energy requirements compared to traditional reverse osmosis.



## Product Specifications:

Model	NaCl Rejection	MgSO <sub>4</sub> Rejection	Size	Outerwrap Options
AMT-FLUXA™-NF-30	30–50%	96%	8040/4040	Industrial FRP
AMT-FLUXA™-NF-60	50–70%	96%	8040/4040	Industrial FRP
AMT-FLUXA™-NF-90	>85%	98%	8040/4040	Industrial FRP

Note: Membrane area is 37.2 m<sup>2</sup> for 8040 and 7.5 m<sup>2</sup> for 4040. Rejections are measured under standard test conditions, refer TDS.

## Applications for FLUXA™ NF

- Water softening
- Dye concentration and recovery
- Color and organics removal from wastewater
- Boiler feedwater treatment
- Sugar and lactose concentration
- Pharmaceutical and process water treatment
- Partial monovalent salt passage for reduced osmotic pressure



## Reverse Osmosis (RO) – FLUXA™ RO Series



### Ultimate Purity: Water Without Limits.

Discover the pinnacle of water purification with Adimem's FLUXA™ RO series – our comprehensive range of high-performance reverse osmosis membranes. Tailored for the diverse demands of industrial, municipal, and seawater applications, each FLUXA™ RO membrane is engineered for exceptional salt rejection, superior fouling resistance, and extended membrane life. We have categorized our RO offerings under three categories.

- Low Energy with Fouling Resistance RO (LEFR)
- Brackish Water with Fouling Resistance RO (BWFR)
- Sea Water RO (SWRO)



### Low Energy & Fouling Resistant RO – LEFR Series

Model	Size	Area	Feed Spacer	Permeate Flow (GPD)	Min/Stable Rejection	Max Pressure
AMT-FLUXA™-RO-LEFR-8040	8040	37.2 m <sup>2</sup> (400 ft <sup>2</sup> )	34 mils	12500	99.5%	41
AMT-FLUXA™-RO-LEFR-4040	4040	7.5 m <sup>2</sup> (80 ft <sup>2</sup> )	34 mils	2400	99.3%	41

Note: Flow and Rejections are measured under standard test conditions, refer TDS.

Feed TDS: Up to 4,000 ppm

Designed to operate at lower pressures and resist fouling, LEFR membranes help reduce energy use and extend system life.

### Applications:

- Treated municipal wastewater reuse (high bio-load)
- RO pretreatment enhancement
- Industrial wastewater recycling (textiles, pharma, food processing)
- Decentralized water reuse for buildings & commercial complexes
- Cooling tower blowdown recovery



## Brackish Water & Fouling Resistant RO – BWFR™ Series

Model	Size	Area	Feed Spacer	Permeate Flow (GPD)	Min/Stable Rejection	Max Pressure
AMT-FLUXA™-RO-BWFR-8040	8040	37.2 m <sup>2</sup> (400 ft <sup>2</sup> )	34 mils	10500	99.6%	41
AMT-FLUXA™-RO-BWFR-8040HR	8040	37.2 m <sup>2</sup> (400 ft <sup>2</sup> )	34 mils	9500	99.7%	41
AMT-FLUXA™-RO-BWFR-4040	4040	7.5 m <sup>2</sup> (80 ft <sup>2</sup> )	34 mils	2200	99.5%	41

Note: Flow and Rejections are measured under standard test conditions, refer TDS.

Feed TDS: Up to 12,000 ppm

BWRO systems transform moderately saline water into high-quality water for diverse applications.

### Applications:

- Industrial process water (pharma, food, power, electronics)
- Municipal drinking water from brackish groundwater
- Agriculture & irrigation for sensitive crops
- Commercial use (hotels, hospitals, resorts)
- Water reuse & recycling in industries

## Seawater RO – SWRO Series

Model	Size	Area	Feed Spacer	Permeate Flow (GPD)	Min/Stable Rejection	Max Pressure
AMT-FLUXA™-RO-SW8040HR	80-40	37.2 m <sup>2</sup> (400 ft <sup>2</sup> )	34 mils	6000	99.8%	83
AMT-FLUXA™-RO-SW8040XLE	40-40	37.2 m <sup>2</sup> (400 ft <sup>2</sup> )	34 mils	7500	99.7%	83

Note: Flow and Rejections are measured under standard test conditions, refer TDS.

Feed TDS: Up to 40,000 ppm

SWRO systems desalinate high-salinity seawater for potable and process-quality water.

### Applications:

- Coastal municipal water supply
- Offshore platforms & ships
- Resorts & hotels in coastal/island regions
- Industrial use (refineries, power plants)
- Emergency & disaster relief portable units

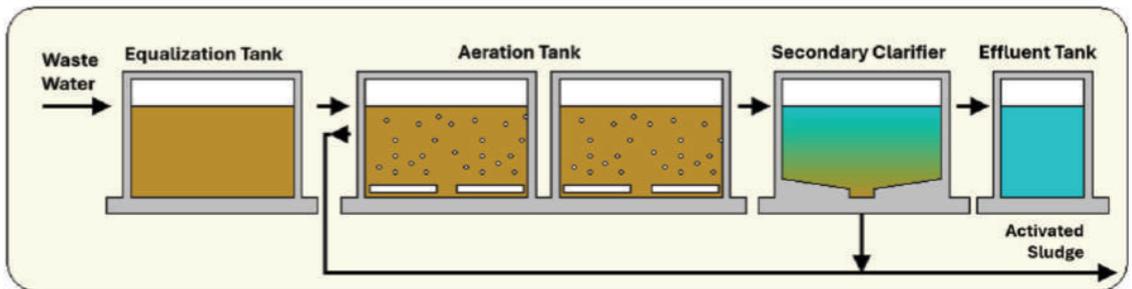
# Membrane Bioreactors (MBR) – ARISE™ Series



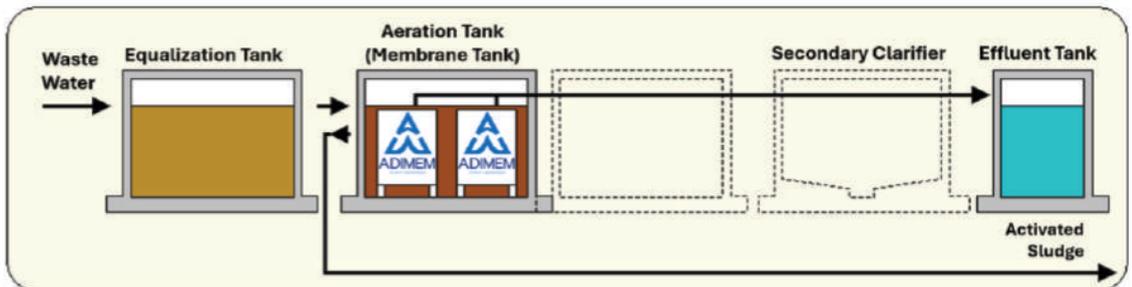
## Compact, High-Quality Wastewater Treatment

Revolutionize your wastewater management with Membrane Bioreactors (MBRs)-a smart combination of biological treatment and advanced membrane filtration, delivering superior effluent quality in a compact footprint.

**TRADITIONAL  
METHOD OF  
WATER  
TREATMENT**



  
**MBR METHOD  
OF WATER  
TREATMENT**



At Adimem Technologies, our ARISE™ MBR membranes lead this innovation. Built for high flux, chemical robustness, and long life, they are ideal for municipal STPs, industrial ETPs, and decentralized reuse projects.

We offer both Hollow Fiber and Flat Sheet ARISE™ membranes, plus fully containerized, plug-and-play MBR systems-factory-tested and ready for fast deployment.

## ARISE™ HF – Hollow Fiber MBR Membranes

Model	Pore Size	Configuration
AMT-ARISE™-MBR-HF010	0.1 μm	Reinforced Hollow Fiber Module
AMT-ARISE™-MBR-HF030	0.03 μm	Reinforced Hollow Fiber Module



### Features:

- Low energy pulse aeration
- High mechanical durability
- Hydrophilic modification- Low fouling
- Long operational life

## ARISE™ FS – Flat Sheet MBR Membranes

Model	Pore Size	Configuration
AMT-ARISE™-MBR-FS010	0.1 μm	Submerged Flat Sheet
AMT-ARISE™-MBR-FS030	0.03 μm	Submerged Flat Sheet



### Features:

- Robust flat sheet design for load variability
- High-quality effluent even under fluctuating conditions
- Easy maintenance and modular scalability
- Hydrophilic modification to enhance fouling resistance.
- Back-washable

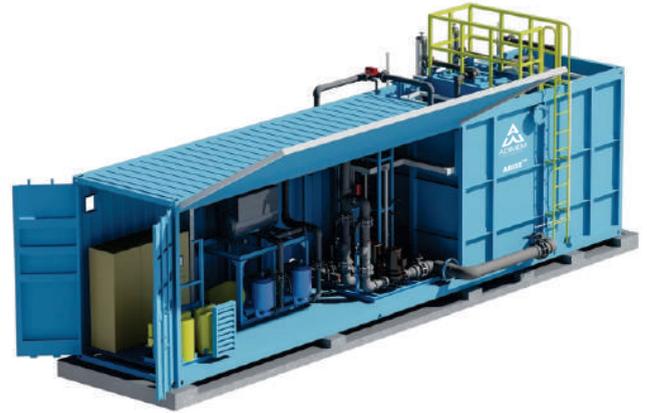


# Adimem's Arise Box™ Plug & Play Wastewater Treatment: Containerized MBR Systems

**Fully Integrated. Factory Tested. Ready**

Key Features:

- Pre-assembled in 20-ft or 40-ft containers
- Includes biological treatment, ARISE membranes, disinfection, and PLC-based control
- Rapid deployment with minimal site work
- Ideal for space-constrained or remote locations



## ARISE™ MBR Applications:

STPs (hotels, housing complexes)

Color removal

Industrial wastewater reuse

GreyWater reuse

## Our USP – MBR Solutions:

- In-house manufactured ARISE™ membranes (Hollow Fiber and Flat Sheet)
- Options for both new plants and retrofit upgrades
- Containerized or RCC-integrated formats
- Full design, commissioning and O&M support
- Low energy, low sludge and odor-free operation



## Adimem's FlowSkid™

### Plug-and-Play Filtration. Fast Deployment. Reliable Performance.

Adimem's Modular Membrane Systems (MMS) offer fully integrated, skid-mounted water and wastewater treatment solutions, engineered for rapid commissioning and long-term reliability. Every MMS comes factory-tested with our in-house manufactured membranes, precise dosing systems, smart automation and a durable, corrosion-resistant frame.



### Precision Engineered System Configuration- What's inside ?

- Adimem Membranes: FLUXA™ (MF,UF,NF,RO), FYBRIN™ and TUBIONIQ™ configured to your application
- Integrated Pumps: High-pressure, transfer, backwash and CIP
- Chemical Dosing: Antiscalant, pH adjustment, disinfection
- Instrumentation: Pressure, flow, conductivity monitoring
- Advanced Controls: PLC with HMI touchscreen and remote alert capability
- Robust Frame: Skid-mounted, built with SS, FRP or UPVC

### Versatile Applications:

- **Industrial:** ZLD RO, ETP polishing, process water
- **Municipal:** Decentralized WTPs, STPs, MBRs
- **Residential:** Greywater reuse, in-building RO/UF systems

**Capacity Range:** From 500 LPH to 250 m<sup>3</sup>/day, with modular expandability



## Seamless Integration: From Membrane to System

**In-House Membrane Manufacturing. End-to-End Water & Wastewater Solutions.**

At **Adimem Technologies**, we are proud to be both a membrane manufacturer and a complete system solutions provider.

Our in-house manufactured membranes (MF, UF, NF, RO, MBR) serve as the foundation for **OEMs, EPCs, and system integrators** across industries.

For end users, we go a step further-delivering **fully engineered, membrane-integrated water and wastewater treatment systems**, built for **reliability, regulatory compliance and operational efficiency**.



**Our System Offerings by Application:**

### Industrial Systems: Mastering Industrial Water Challenges.

- **Effluent Treatment & ZLD Systems:** Complete ETP and Zero Liquid Discharge solutions. Advanced UF, NF, RO, MEE, and ATFD for high-COD effluents (dyes, pharma, chemicals).

Equalization ➡ Coagulation ➡ UF ➡ RO ➡ MEE ➡ ATFD ➡ Solid Disposal

- **Industrial Water Treatment:** Customized feedwater systems for boilers, cooling towers and process needs, optimized for your source water.

Raw Water ➡ Sand/ACF ➡ UF ➡ RO ➡ DM / Polishing



## Municipal Systems: Enabling Sustainable Urban & Community Water.

- **Sewage Treatment Plants (STP):** Compact, high-efficiency STPs using Adimem's ARISE MBR membranes, ideal for urban and peri-urban zones

Screening ➔ Biological Tank ➔ ARISE™ MBR ➔ Disinfection ➔ Reuse/Discharge

- **Water Treatment Plants (WTP):** Potable water treatment systems using UF and RO, optimized for river, lake, or borewell sources.

Raw Water ➔ Coagulation/Clarification ➔ UF ➔ RO (if required) ➔ Disinfection

## Residential & Decentralized Systems: Smart Water Solutions for Modern Living.

- **MBR STPs for Buildings & Apartments:** Silent, odor-free, space-efficient MBR-based STPs for apartments, villas, and institutions (RCC or containerized).

Screening ➔ Equalization ➔ MBR ➔ Disinfection ➔ Reuse

- **In-Building Drinking Water Systems:** Plug-and-play purification systems (UF/RO + disinfection) for consistent BIS-standard output in residential or commercial blocks.

Raw Water ➔ Pre-filtration ➔ UF/RO ➔ UV/Chlorination ➔ Distribution



**In-House Membrane Manufacturing:**

**Better Quality & Control**

**OEM & EPC Friendly:**

**Supplying membranes and technical support to partners globally**

**Full System Capability for End Users:**

**When clients prefer a single-point, turnkey provider**

**Flexibility:**

**Whether you need just membranes or a complete plant—we're ready.**





A Unit of **VIPULORGANICS**

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**R&D Centre:** 102, Andheri Industrial Estate, Off Veera Desai Road, Andheri (West), Mumbai- 400053

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