



ECONITY Improved water treatment Technology

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Descriptions of Research Topics

- Water treatment total solution
- Membrane manufacture & procurement
- Membrane Process design
- Membrane installation and O&M

Applications:

- Municipal wastewater treatment
- Industrial wastewater treatment
- Drinking water treatment
- Water reuse
- Pretreatment of desalination
- Package system

Company instruction





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Membrane & Technology

ECONITY CF Series
Submerged membrane

E-Type Hollow Fiber

PVDF Hollow Fiber

The World's First PVDF hollow fiber membrane
TIPS+Stretching method

World's best tensile strength and pure water flux
 NSF 61 certification and 100% chemical
 SA / Alignment pore structure

Materials: PVDF Poly(vinylidene fluoride)

Type: hollow fiber


Inner Structure: 80 Pore

Membrane Pore Size: 0.1 Microns


OD (ID): 1.20(0.9) x 3.20(2.5) mm

Operating Flux: 1.5-3.0 m³/m²/d @ 0.1 MPa

Chemical Resistance: 1,300,000 gpd/100 sqm



One-sided freely movable hollow fiber with cartridge design




California Title 22 Certified Product

ISO 9001, 14001

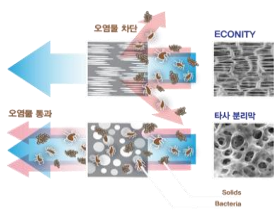
Membrane Quality

Physical Recovery Rate: 82 NTU



Easy Handling (Cartridge type)

Customized Size




<California Title 22>

◆ One of the most strict Membrane quality certificate


◆ Approval sale of Reuse in CA

◆ Bidding Advantage in USA, MENA, EU

15 Module




ECONITY PF Series
Pressurized membrane



ECONITY PF – 90M

- ✓ **Large Capacity Module**
 - Module Diameter : 10 inches
 - Membrane Surface Area : 90m²
- ✓ **Higher Chemical Resistance**
- ✓ **Highest Fiber Tensile Strength**
- ✓ **Hydraulic Module design**
 - Increased pollutant resistance
 - Improved physical cleaning recovery rate



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Membrane & Technology

Package System

✓ECONITY Package System



- MBR for Sewage water
for Wastewater
- PF(Pressurized Type) for RO pretreatment
for Potable water

✓Applications

- Temporary or small residential area
- Emergency shelter housing
- New housing development
- Parks and resorts
- Remote worker camps

✓System Design

- Plug & play design
- Low Installation Cost
- Small Footprint
- High effluent water quality
- Easy maintenance



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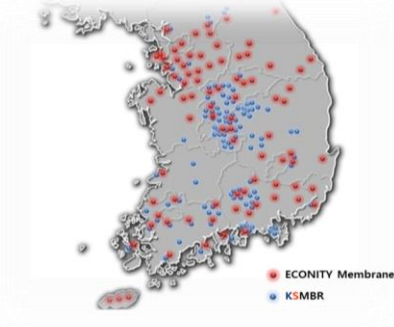
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References

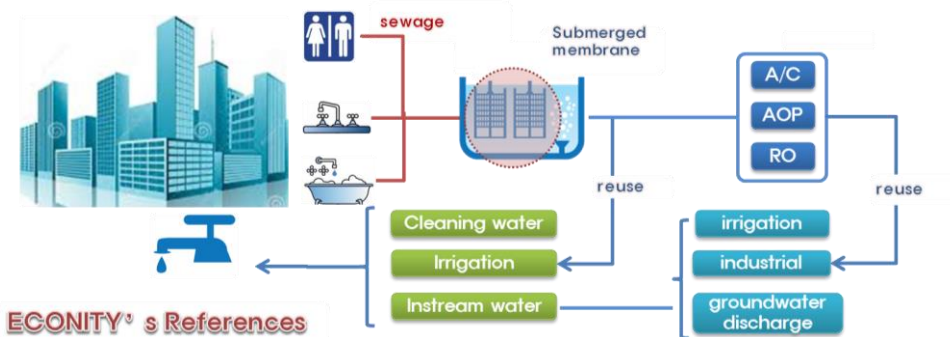
Reference(MBR)



- ✓ Over 2,000 sites MBR Experiences
 - Accumulative Volume : 1,000,000 m³/day
- ✓ Applied KSMBR : 209 Sites
 - Accumulative Volume : 486,000 m³/day
- ✓ The biggest : 84,000 m³/day



Reference(Water reuse)



Research Fields 1 Membrane product–Design–Construction–O&M 2 Total water solution
Keywords Membrane filtration, Waste Water treatment, MBR, Water reuse, Package system