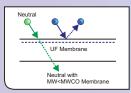


GPP FIRE

Future Direction

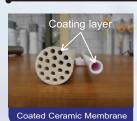
Molecular Fractionation & Charged Ultrafiltration



Based on its experiences as membrane manufacturer for a decade, GDP Filter incorporates several modified techniques to manufacture membrane with desired MWCO. Ideal molecular fractionation by UF is going one step closer to be reality.

In order to give extra cutting edge to separation performance of UF, GDP Filter initiated charged-ultrafiltration project. Charged-UF membrane has greater degree of separation due to its electric charges. In particular applications, such as peat water treatment (low TDS content but high in low molecular weight organics), charged-UF membrane will be powerful yet economically attractive solution.

NaA Skin-Layer Technology on Ceramic Support



Despite of its brittle nature and more expensive cost, ceramic membrane will always have special place in niche applications where extreme conditions are inevitable. Pervaporation and vapor permeation, which apply membrane-based technology for ethanol dehydration, are among those.

GDP Filter has developed special coating technique using microwave heating to create selective dense zeolite NaA skin layer on porous ceramic support. The special coating technique can also be used for skin layer production of various polymeric and even mixed-matrix membrane using porous ceramic support.



GDP Filter

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"Innovative Solutions for A Better Life"

As leading membrane manufacturer in the region, **GDP** Filter produces high quality membranes for various applications.



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OUR MOTTO

Our principle of never ending improvement to aim perfection is devoted to brighter future of human being, as we said, "Innovative Solutions for A Better Life".

NEVER ENDING INNOVATION >

2001 Small-scale Ultrafiltration **Labs Scale Device Residential Unit**

2004 2003

Vegetable Oil Filtration Large-scale **Membrane Plant**



2006 2005

recycling.

IGW Emergency UF

SCOPE OF SERVICE

Holding on the spirit to serve, GDP Filter offers the concept of Total Solution to customers. Our



Single-Bore Capillary Membrane

experiences range from production of high purity water, industrial

process water, drinking water, to even Unique Cases such as

vegetable oil filtration, pervaporation, and waste lube oil

Biofuel Industry

production

Oil & Gas Industry

- Waste lube oil recycling Produce water treatment

Vegetable Oil Industry - Palm Kernel Oil clarification

Virgin Coconut Oil clarificatio Jatropha Oil clarification

Wastewater Treatment Plant

Milling Plant

- MBR installation Safe discharge

Agro Industry

Temulawak crystal juice

Soluble starch production

Phytofarmaca juice clarification

Sugar cane juice

Water Supply Companies

2007



Mobile SWRO

2008

Rice Crop Field & Village

Apartment Clean water production - Water reuse system

Laboratory Membrane-based mini equipment

Pyrogen-free water production High purity water production

Aquaculture

- Algae harvesting - Hatchery

Super intensive closed-recirculation grow-out system

Home Residents

- Residential UF and RO unit for clean / drinking water

UF economical package

- Water Reuse

- Drinking water production from seawater

- RO Module - FRP RO Housing

- Non-Modular Membrane System

- Multi-Bore Capillary Membrane

With years of research, we developed an unique non-modular membrane system.



"Innovative Solutions for A Better Life"