

HYVIS DYNAMIC FILTER SYSTEM



*Your Ultimate Choice for Liquid-Solids Membrane
Separation Technology*

- *Innovative & Dynamic Filtration Technology*
- *High Liquid-Solids Separation Performance*
- *Crossflow Design with High Flux Permeability*
- *Wide Applications for Substances Removal or
Recovery or Concentration*

Presented By:

Hydro**FIL**

INTRODUCTION

Hyvis Dynamic Filter System (HYVIS) is an innovative and dynamic ceramic membrane technology invented to handle challenging liquid-solids separation duties. HYVIS adopted crossflow configuration design to allow the high permeability and filtration quality performance. HYVIS allows constant high permeate flux and therefore gives higher yield no matter the substances are required for removal or recovery or concentration.

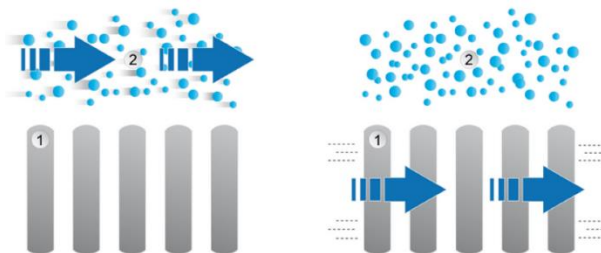
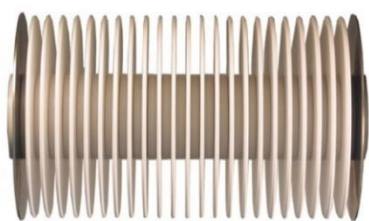
KEY FEATURES

- Innovative Technology from Germany
- Able to Handle High Influent Solids Content
- Able to Operate at High Temperature
- High Oil and Grease Recovery or Removal
- Full Automated Operation
- High Permeate Flux Achievability
- Crossflow Design & Configuration
- High Durability Ceramic Membrane
- No Extra Pumping Energy for Flow Recirculation
- Compact System with Small Foot Print
- Easy & Simple Maintenance
- Low Energy & Chemical Consumption



Advantages of Ceramic Membrane in HYVIS

- High Durability Material
- Inert material and able to operation in full range of pH 1-14
- High Temperature Range (up to 130°C) and thus able to be sterilized with steam
- Easy for Inspection as the substances will be filtered outside of the membrane
- Short Cleaning time required compared with other membrane
- Low Maintenance with long life time of ceramic membrane
- High flux rates
- High resistant to acidic or alkaline conditions
- Robust against high operation pressure and temperature



Cross Flow Filtration

Applications

HYVIS Dynamic Filter System has wide range of applications in various industry.



Cell harvesting, proteins, and enzymes



Mineral oils



Recovery of oils, solvents or any valuable liquids or acid or alkaline recovery



Hydroxides, colloids, pigments, polymers, titanium oxide, and calcium carbonate



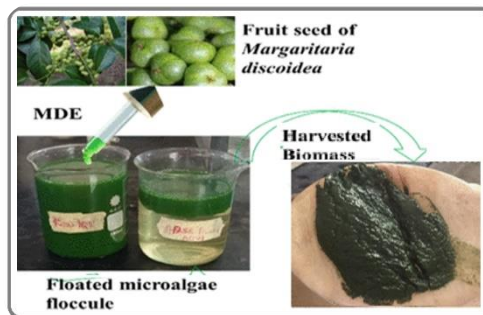
Biomass and Aromatics



Wine, beer, juices, vegetable oils, gelatin, enzymes, water recovery in starch processes, and sterilization of juices



Palm Oil Mill Effluent



Micro-algae, silicon-cutting slurry, and BTL (biomass to liquid)