ST-II 25 Rotary Membrane System

Next generation centrifugal filtration

The Power of Stainless Steel
The SpinTek PMM medium combines the best qualities of our PSS sintered stainless steel and Rigimesh sintered, woven-wire-mesh media. The thin wovenwire-mesh support structure is exceptionally strong and the composite is quite ductile. The medium has a smooth surface and excellent uniformity. It is an excellent choice for solid separation and solids recovery applications. In liquid service, this filter medium will function as an exceptionally high-performance septum. Standard material of construction is all 316L Stainless Steel.

Major Advantages and Benefits
The SpinTek PMM medium is capable of very fine removal efficiencies. The ultra thin filter medium stands up to repeated cleaning, thanks to the supporting wire mesh and the strength of it’s all-stainless steel construction. The SpinTek PMM medium provides efficient cake formation and release for solids recovery applications, while providing a higher surface area than other technologies.

Excellent Chemical Compatibility
The SpinTek PMM medium is resistant to:

- **Acids:** Acetic acid - glacial, 10%, 30%; 90%; Hydrochloric acid - conc. (35%), 6N (20%), 1N (3.3%); Nitric acid - conc. (67%), 6N (27%); Sulfuric acid - conc. (96%), 6N (16%)
- **Alcohols:** Amyl, Benzyl, Butanol, Ethanol Isopropanol, Methanol
- **Aromatic Hydrocarbons:** Benzene, Toluene, Xylene
- **Bases:** Ammonium hydroxide - 3N (5.7%), 6N (11.4%); Potassium hydroxide - 3N (15%); Sodium hydroxide - 3N (11%), 6N (22%)
- **Esters:** Amyl acetate, Butyl acetate, Cellosolve acetate, Ethyl acetate, Isopropyl acetate, Methyl acetate

**KEY BENEFITS**
- Small footprint allows operation in cramped laboratory environments.
- Very fine removal efficiencies
- Easy to clean
- Thin filter medium
- Excellent chemical resistance
- High shear for increased flow rates, faster test with less fouling
- Accepts a wide variety of membranes
- Affordable, low cost system
- Allows assessment of waste streams previously considered untreatable.
- STC results can be used to assist in designing larger systems cost effectively.
- Single vendor growth path.
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Ethers: Ethyl ether, Tetrahydrofuran, Tetrahydrofuran/water (50/50 v/v)
Glycols: Ethylene glycol, Glycerol, Propylene glycol
Halogenated Hydrocarbons: Carbon tetrachloride, Chloroform, Ethylene dichloride, Methylene chloride, Tetrachloroethylene

Ketones: Acetone, Cyclohexanone, Methyl ethyl ketone, Methyl isobutyl ketone
Miscellaneous: Acetonitrile; Dimethyl formamide; Dimethyl sulfoxide; Formaldehyde - 37%, 4%; Hexane - dry; Kerosene; Pyridine; 8 Megohm water; Cottonseed oil; Peanut oil

REMOVAL EFFICIENCY

Based on modified F2 efficiency test, removal efficiency by particle count. Weight percent removal data based on AC Fine Test Dust in air. Absolute retention ratings based on actual particle count data.

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<th>Size (in.)</th>
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Stainless steel support structure

Exploded view showing construction of the PMM membrane

Closeup showing woven wire mesh

SpinTek filtration
Advancing the flow of industry