UNISOL
Membrane Technology



Spiral Wound Modules

For Wine Processing & Fruit Juice Concentration

CUSTOMIZED • SANITARY DESIGN • RETROFIT SOLUTIONS

Wine Filtration in Modern Wine Making

Filtration has always been an important step in the winemaking process for wineries of all sizes around the globe. This process plays a key role in ensuring the desired texture, taste, consistency, and stability of the wine before bottling.

While this process has traditionally been carried out using diatomaceous earth, which is classified as potentially carcinogenic, modern microfiltration offers several significant advantages:

- Microfiltration delivers consistently high filtration quality
- Secures retention of impurities from the winemaking process

Wine Filtration Modules | Microfiltration Solutions

UNISOL supplies spiral-wound microfiltration modules in a wide range of sizes, compatible with all common filtration systems.

Available diameters include 4", 5.8", 6", and 8", with lengths ranging from 19" to 40".

The UNISOL MF membranes are engineered for exceptionally high flux rates, ensuring maximum performance and efficiency of your microfiltration system.

Retrofit Solutions | Sanitary Microfiltration

As filtration remains a cornerstone of winemaking, ensuring clarity, stability, and microbial safety, the need for reliable filtration solutions is essential. With the discontinuation of certain sanitary microfiltration modules from other manufacturers, uninterrupted operation can become a concern for wineries and beverage producers.

At UNISOL, we offer high-quality replacement microfiltration modules that seamlessly integrate into existing filtration systems. Our replacement solutions are designed to match the specifications of discontinued products, ensuring a trouble-free transition without compromising performance.

The sanitary microfiltration modules provide efficient removal of yeast, bacteria, and particulates,



safeguarding the quality and shelf life of wines and other beverages. With a focus on maintaining filtration integrity, our replacement elements help wineries continue their operations smoothly, minimizing downtime and maintaining product consistency.

By choosing UNISOL replacement solutions, wineries benefit from:

- ✓ Seamless compatibility with existing systems
- ✓ High-performance microfiltration for superior product quality
- ✓ Reliable supply ensuring continuity in production

With our extensive expertise in wine filtration, we ensure that your operations remain uninterrupted while maintaining the highest standards of clarity and microbiological stability.

For detailed specifications and assistance in selecting the right replacement module, contact UNISOL today.

Fruit Juice Concentration | NF & RO Modules

In case of low sugar concentration, reverse osmosis can be used to concentrate the fruit juice while also concentrating all other substances in the juice, without exposing the juice to high temperatures.

With this technology, the sugar content can be adjusted to guarantee the ideal pre-product for the wine manufacturing process.

UNISOL offers a wide range of nanofiltration and reverse osmosis membranes suitable for food processing to achieve the exact required result in the concentration process.

Wine & Fruit Juice Module Sizes | RO & NF Solutions

UNISOL supplies spiral-wound RO and NF modules in a wide range of sizes, compatible with all common filtration systems.

Available diameters include 4", 5.8", 6", and 8", with lengths ranging from 19" to 40".

Wine Dealcoholization | RO Modules

When the produced wine has a too high alcohol concentration, UNISOL Specialist Reverse Osmosis modules are perfectly suitable to adjust the alcohol concentration to your requirements. In this process, deionized water is added to the wine in the same amount as permeate is produced.

Since alcohol partially passes through the reverse osmosis membrane over the duration of the process, the alcohol concentration can be adjusted accordingly. This process is called diafiltration.



WE SUPPORT YOU - WORLDWIDE!



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UNISOL MEMBRANE TECHNOLOGY reserves the right to change specifications without prior notification.
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