

Separation Membrane for Drying Solvent Extracts

DryDisk® Separation Membrane

- Replace Sodium Sulfate Drying

DryDisk® Separation Membrane With Gore-Tex® Filtration Media

The DryDisk® Separation Membrane significantly reduces the labor involved in removing residual water from organic solvents, up to twenty times faster. Labor savings and faster processing times directly translate into greater cost savings to the laboratory.

DryDisk® is a hydrophobic membrane utilizing GORE-TEX® process filtration media that has been specifically designed to remove residual water from methylene chloride and non-polar solvent extracts. By eliminating the need for chemical drying with sodium sulfate, DryDisk® reduces laboratory waste, and insures complete capture of the entire solvent phase, resulting in faster and more consistent recovery of analytes in the water sample.

Unlike sodium sulfate, which can retain water-soluble compounds resulting in lower analyte recoveries, the proprietary DryDisk® Separation Membrane technology utilizes the principle of selective permeability to remove residual water from solvent extracts without retaining the analytes of interest - and eliminates the tedious multi-step process associated with chemical drying techniques.

Features:

- Fast and simple - no measuring, drying or waiting for phase separation.
- Replaces multi-step chemical drying process.
- Infinite capacity for removing residual water from solvent extracts.
- Eliminates disposal of used sodium sulfate.
- Works on emulsion samples.
- Supports up to eight simultaneous samples manually.
- Automated using the DryVap® Concentrator System.



The DryDisk™ Separation Membrane - 65mm hydrophobic membrane is for use with the Horizon Technology DryVap® Concentrator System or SDS Solvent Drying System.

SDS Solvent Drying System

1 to 8 Place System

The SDS Solvent Drying System provides vacuum assisted operation to facilitate and speed up the solvent drying step. The system consists of a PTFE Membrane Holder Assembly with a Docking Bracket, Clamp, Vacuum Line, and 1/2" fitting. **An optional eight (8) port precision controlled vacuum regulator allows multiple stations to be run simultaneously.**

The SDS Solvent Drying System is adaptable to common 1/2 in. diameter laboratory frames and can be mounted easily under the separatory funnel to collect the solvent extract. Quick disconnect

fittings and detachable disk holders permit the collected residual water to be poured back into the the separatory funnel for re-extraction and optimal recovery of analytes.

Features:

- Can handle single (1) or up to eight (8) stations.
- Vacuum assisted operation facilitates and speeds up solvent drying step.
- Mounts easily under separatory funnel to collect the solvent extract.
- Quick disconnect fittings and detachable disk holder.



Single SDS Solvent Drying System in manifold.

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DryDisk® Separation Membrane

50mL Disposable Barrel

The DryDisk® Separation Membrane 50 mL Barrel is a disposable sample preparation accessory that provides a fast and simple approach for removing residual water from non-polar solvents. The DryDisk® membrane replaces the conventional sodium sulfate drying technique. The barrel is made from high purity HDPE (high density polyethylene) and has a GORE-TEX® PTFE membrane embedded into the base of the barrel. The membrane is supported by an inert polymeric laminate for maximum mechanical integrity.



Placement of the DryDisk® Separation Membrane 50 mL Barrel on the DryVap® Concentrator System

Features:

- DryDisk® integrated with the barrel, no assembly required
- Place the barrel in the DryVap® Concentrator System or manifold, add the sample and run
- Removes residual water from smaller volume, non-polar solvent extracts
- Replaces conventional sodium sulfate drying
- Compatible with 3rd party SPE vacuum manifolds
- Disposable - discard the barrel after use, no messy clean-up.



DryDisk® Separation Membrane
50mL Disposable Barrel

For use with either the Horizon Technology DryVap® Concentrator System, or 3rd Party SPE Manifolds.

The DryDisk® Separation Membrane 50 mL Barrel offers the maximum in speed and convenience for drying smaller volume extracts as there is no assembly required. The DryDisk® Separation Membrane 50 mL Barrel is useful for removing water from methylene chloride extracts, methylene chloride/acetone mixtures, alkane based solvents, toluene and ethyl acetate. (The DryDisk® Separation Membrane 50 mL Barrel is not designed to remove water from polar solvents: acetone, methanol, or acetonitrile.) The DryDisk® Separation Membrane 50 mL Barrel may be used with the Horizon Technology DryVap® Concentrator System, or with 3rd Party SPE Manifolds.



Ordering Information DryDisk® Separation Membrane

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| ■ Separation Membrane with Gore-Tex® Process Filtration Media | Part Number:
40-705-HT |
| ■ 50mL Disposable Barrel | Part Number:
49-2486-01 |

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