



INNOVATIVE TECHNOLOGY

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# Pure Solv MD

## Solvent Purification System



### ACADEMIC MANUFACTURING RESEARCH

- ✓ New Alcohol and Amines drying columns & filtration design
- ✓ Variety of configurations and sized systems
- ✓ Safe alternative to thermal distillation
- ✓ No cross diffusion of solvent vapors
- ✓ Air-free collection of Ultra-dry & De-oxygenated solvents
- ✓ All solvents can be dispensed simultaneously
- ✓ Free up valuable hood space
- ✓ Glove box integration
- ✓ Mobile stand with integrated flammable cabinet

The Pure Solv - MD (Multiple Dispensing System) is designed for labs with multiple researchers who require easy access to more than one anhydrous solvent.

Customers can choose from three standard frames sizes that can be populated from two up to seven solvents of choice.

If your initial budget only allows for the procurement of three solvents but you envision the need for additional solvents in the future; we can provide a larger unpopulated frame and flammable cabinet that will allow you to upgrade your system as your requirements for anhydrous solvents change.

Innovative Technologies unique dispensing system allows for easy access to anhydrous solvent by multiple users. Our Multi-Way Valve design is considered the most efficient and safest dispensing system on the market today.

The Pure Solv MD dispensing system facilitates proper air free dispensing techniques using our integrated manifold system.

The Pure Solv MD includes customer's choice of 24/40, 14/20, 29/32 stainless steel glassware adaptors as standard. Other types of connections such as Luer Lock Needle Valves, Ball Joints, Quick Disconnect Glass Adaptors for added flexibility available upon request.

The Pure Solv MD allows for multiple users to operate air free dispensing system simultaneously without any risk of cross diffusion of solvent.

Large capacity 5 gallon reservoirs include custom designed leak tight screw cap and Swagelok quick disconnect valves for easy handling and refilling.

Pure Solv MD is bonded and grounded to remove hazards associated with electro static discharge and ensure safe operating environment. This includes a retractable grounding clamp that connects directly to the solvent reservoir during the refill process.

The Pure Solv MD Solvent Purification System can purify up to 800 liters of solvent before column replacement or regeneration is necessary.

Available in free standing, bench top or wall mounted models.

## PURE SOLV MD: Specifications

<b>Materials</b>	
Frame Material	Aluminum
Finish	Anodized
Tubing Material	304 type Stainless Steel
Fittings & Valve Material	Swagelok Stainless Steel
<b>Leak Rates</b>	No detectable leaks with helium mass spectrometer (sensitivity of 5-x 10 <sup>-6</sup> std cc/sec)
<b>Dispensing</b>	Stainless Steel 24/40 - 14/20 - 29/32 - 19-24 - Luer Lock Needle Valves
<b>Ventilation</b>	Exhaust Connection Available
<b>Inert Gas Pressure</b>	45 PSI
<b>Inert Gas</b>	Nitrogen - Argon
<b>Purifying Material</b>	Based on Solvent Type
<b>Scrubbing Capacity</b>	5 Weight % Water Absorption
<b>Column Valves</b>	Swagelok Stainless Steel 3-Way
<b>Attainable Purity</b>	Low PPM H <sub>2</sub> O & O <sub>2</sub>
<b>Solvents</b>	
	<p><b>Aromatic &amp; Aliphatic Hydrocarbons</b>            Pentane            Hexane            Cyclo-Hexane            Heptane            Toluene            Benzene</p> <p><b>Ethers</b>            Diethyl Ether            THF            DME</p> <p><b>Chlorinated Solvents</b>            Dichloromethane            Chloroform            Chlorobenzene</p> <p><b>Amines</b>            Triethylamine            Pyridine            Diisopropylethylamine</p> <p><b>Alcohols</b>            Methanol            Ethanol</p> <p><b>Other Common Solvents</b>            Acetonitrile            DMF            DMSO            Acetone</p> <p><i>Note: This list of solvents is not exhaustive. Other analogous compounds are available upon request.</i></p>
<b>Vacuum Pump</b>	Welch DRYFAST Solid PTFE Vacuum Pump (Sold Separately)
<b>Vacuum Pump Power</b>	115V, 1.2 Amps, 60 Hz 220V, 0.5 Amps, 50Hz
<b>Accessories</b>	Full line of system accessories can be seen at <a href="http://www.solventpurification.com">www.solventpurification.com</a>