



LC Technology Solutions Incorporated

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SPBT-1 Bench Top Solvent Purification System



Features

- Compact modular design
- Easily fits on a bench top or in a fume hood
- Easy to operate
- All stainless steel construction
- 500 ml glassware, cork ring and stainless steel jack stand included
- Expandable from 1 to 7 solvents
- 800 liter drying capacity

Our SPBT-1 bench top solvent purifier is a compact yet complete system for safely drying solvents. This system was specifically designed to fit on a bench top or in a fume hood.

This point of use system is perfect for small or single use solvent applications. This high quality unit is a small package but has the same capacity as our larger unit. It also uses all of the same high quality components. It has just been repackaged to fit into a small space.

This unit has the advantage of being used in any location within your lab. It can fit onto the corner of a lab bench or inside a fume hood. It could be mounted above or below a glovebox as well. The system is only 27"H x 9"W x 15"D. It can fit almost anywhere.

The system comes complete with a small (5) liter solvent keg that can be easily disconnected and refilled. Since this small keg only holds (5) liters it removes the requirement of having a bulky fire cabinet. The flexibility of this system is one of its best attributes.

<u>Commonly Used Solvents:</u>	<u>Projected Results:</u>
Acetone	≈ 2 ppm*
Acetonitrile	≈ 2 ppm*
Benzene	≈ 2 ppm*
Chlorobenzene	≈ 2 ppm*
Chloroform	≈ 2 ppm*
Cyclohexane	≈ 2 ppm*
Dichloromethane	≈ 2 ppm*
Dichloroethane	≈ 2 ppm*
DME	≈ 2 ppm*
DMF	≈ 2 ppm*
Ether - Inhibitor-Free	≈ 2 ppm*
Heptane	≈ 2 ppm*
Hexane	≈ 2 ppm*
Hexanes	≈ 2 ppm*
Methanol	≈ 2 ppm*
Pentane	≈ 2 ppm*
THF - Inhibitor-Free	≈ 2 ppm*
Toluene	≈ 2 ppm*
Triethylamine	≈ 2 ppm*



**Output results are based on a starting moisture level of 250 ppm. Results will vary up or down based upon different starting moisture content in the solvent. Accuracy ± 2 ppm.*

Standard Items List for the SPBT-1 Solvent Purifier Series:

1. Stainless steel enclosure for housing filters and gas manifold – 9"W x 27"H x 15"D.
2. Stainless steel gas, vacuum and dispense manifold using Swagelok valves and components.
3. All stainless steel pressure gauge.
4. All stainless steel vacuum gauge.
5. Teflon 24/40 connectors.
6. One (1) stainless steel jack stand.
7. One (1) 500 ml glass collection vessel with cork ring.
8. Two (2) stainless steel one gallon filter columns per solvent; 800 liter capacity.
9. Stainless steel back flow check valves to prevent from cross contamination.
10. Stainless steel over pressure relief valves.
11. All stainless steel braided flex lines and tubing.
12. All Teflon and Kalrez o-rings and seals.
13. Stainless steel 5 liter keg(s) with quick connects.
14. Grounded and bonded against E.S.D.
15. Swagelok sediment filters.
16. Built-in gas regulator.

All components adjusted for number of solvents ordered. System available with a quantity of 1 to 7 solvents.

Description:

Model SPBT-101 Bench Top solvent purification system including 500 ml collection vessel, cork ring and stainless steel jack stand and optional Teflon vacuum pump



Description:

Model SPBT-101 Bench Top solvent purification system including 500ml collection vessel, cork ring and stainless steel jack stand



Description:

Specially designed 500 ml glass collection vessel with stainless steel jack stand



Description:

Vacuum and Gas pressure gauges and easily operated manual valves



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