• Recover and reuse clean mobile phase, dispose of only contaminated mobile phase.

• Reduce solvent purchase and disposal costs, save mobile phase preparation time, and help protect the environment.

Supelco™ SRS-3000 Solvent Recovery System

In a typical isocratic HPLC analysis, 80-90% of the mobile phase is uncontaminated and can be recycled. The Supelco SRS-3000 Solvent Recovery System is the most accurate, most reliable, easiest-to-use solvent recycling system available. A microprocessor-controlled switching valve in the SRS-3000 system monitors detector output and directs the detector effluent to the waste reservoir only when a peak is detected (Figure A). When the baseline falls below the threshold you select, the uncontaminated solvent is directed back to the mobile phase reservoir. Settings for baseline threshold, detection range, and delay time give you precise control of the switching valve. These settings can be saved in 10 method files.

New Features/Benefits

Output validation
Tick marks on a second chromatogram, sent to a separate recording device (not included), indicate when the recycling valve position changes between "recycle" and "discard". This documents operations for GMP, ISO 9000, and other quality systems.

Selectable detector signal display units
Select % full scale, absorbance units, or millivolts, to match the recycler display with the detector.

Adjustable backlit liquid crystal display
Makes viewing the display easier.

Autoclean valve (optional)
Automatically flushes and shuts down the HPLC system after the last analysis is completed. Makes cleanup easier; helps prolong the lifetime of columns, seals, check valves, and other components.

The SRS-3000 system can be fitted with a valve that enables you to flush your HPLC system with a wash solvent, then automatically shut down the system. The Autoclean valve is especially helpful if you have a single pump system and are using a mobile phase containing buffer or other salts. The Autoclean valve installs between the mobile phase reservoir and the pump (Figure B). It has two inlet lines, one for the mobile phase and one for the wash solvent. Step-by-step programming makes the Autoclean valve easy to use; coordination with the recycling valve ensures mobile phase will not be contaminated with wash solvent. You can order an SRS-3000 system with a factory-installed Autoclean valve, or you can order the system without an Autoclean valve and add this feature later, by ordering the Autoclean upgrade kit.*

The SRS-3000 Solvent Recovery System includes a control unit with a switching valve, a power cord, a 2-lead signal cable (+/-), Teflon® tubing and fittings, and an instruction manual. In addition to these components, an SRS-3000 system equipped with an Autoclean valve includes the wash valve, a wash start cable, a pump remote stop cable, and additional tubing and fittings. The Autoclean upgrade kit includes all components needed to install and operate an Autoclean valve in an SRS-3000 system.

Figure A. Recover 80% or More of the Mobile Phase Used in an Isocratic Analysis
1. Connect SRS-3000 unit to detector signal output (cable is included).
2. Connect SRS-3000 unit to mobile phase and waste reservoirs and detector (Teflon tubing is included).
3. Set the threshold value and begin saving time and money.

**Figure B. Installation Is Simple**

![Diagram of SRS-3000 Solvent Recovery System]

**Ordering Information:**

<table>
<thead>
<tr>
<th>Description</th>
<th>Cat. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>SRS-3000 Solvent Recovery System</td>
<td>57431</td>
</tr>
<tr>
<td>SRS-3000 system with Autoclean valve</td>
<td>57432</td>
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<tr>
<td>Autoclean upgrade kit*</td>
<td>57433</td>
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<tr>
<td>Switching valve assembly for SRS-3000 system</td>
<td>57435</td>
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<tr>
<td>Switching valve for SRS-2000 system</td>
<td>57426</td>
</tr>
<tr>
<td>Signal cable, 2-lead (+/-)</td>
<td>57427</td>
</tr>
<tr>
<td>Signal cable, 3-lead (+/-/ground)</td>
<td>57428</td>
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<tr>
<td>Fuse, replacement</td>
<td>57429</td>
</tr>
</tbody>
</table>

*The Autoclean valve cannot be used with older (SRS-2000) systems.*

Trademarks

Supelco – Supelco, Inc.

Teflon – E.I. du Pont de Nemours & Co., Inc.

For more information, or current prices, contact your nearest Supelco subsidiary listed below. To obtain further contact information, visit our website (www.sigma-aldrich.com), see the Supelco catalog, or contact Supelco, Bellefonte, PA 16823-0048 USA.

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