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Thermo Scientific SRS Pro Solvent Recycler

Introductory Presentation

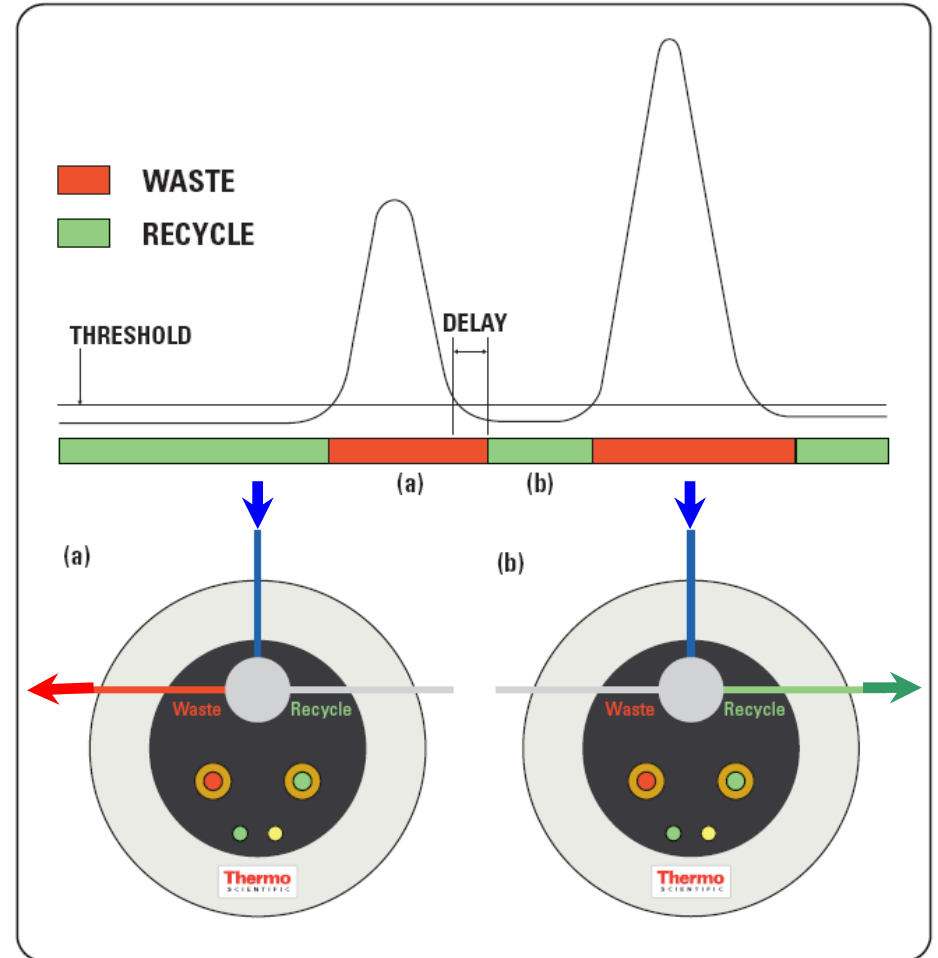
SRS Pro Features

- Modern, compact design
- Powered from PC USB port
- LED indication of WASTE/RECYCLE positions
- Manual WASTE/RECYCLE control
- Compatible with any HPLC detector
- Easy Plug & Play Installation
- Drivers and Software Included

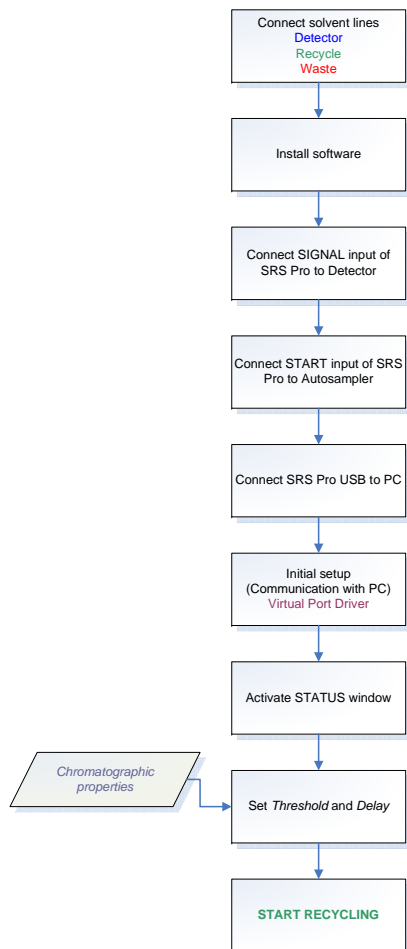


SRS Pro Principle of Operation

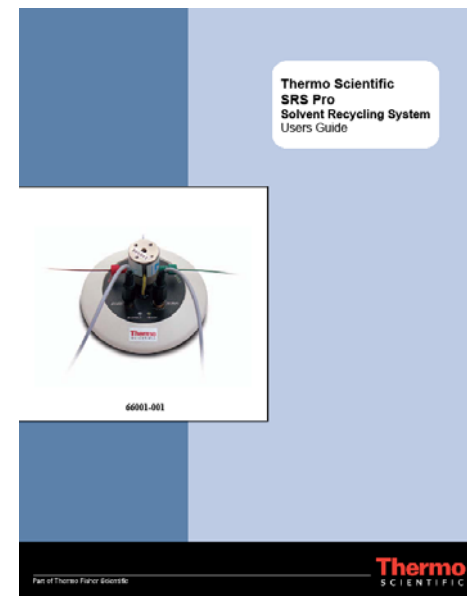
- Recycles mobile phase when baseline is below threshold (a)
- Diverts to waste when baseline rises above threshold (b)



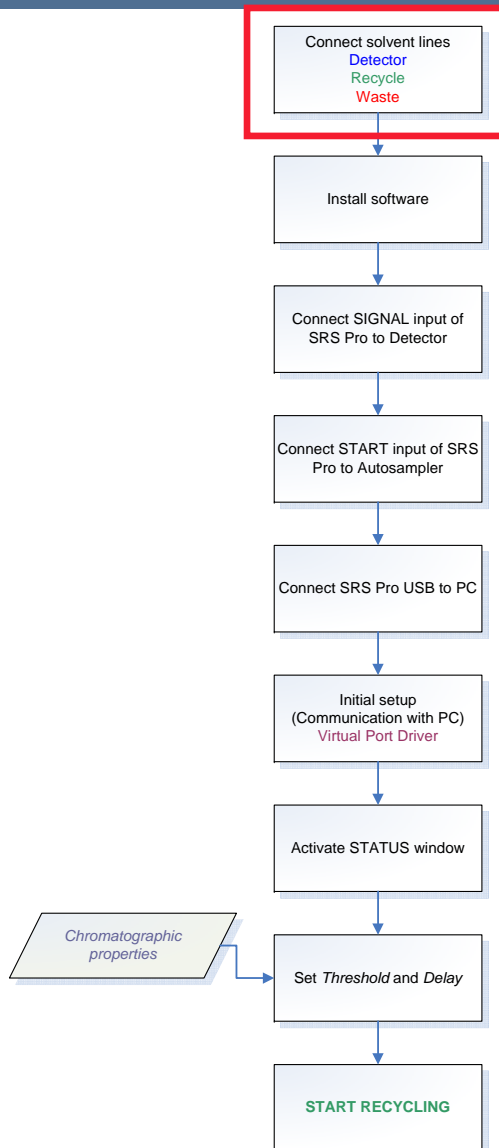
SRS Pro Easy Plug & Play Operation



- Setup is simple using our “Quick Start Guide”
- Full operational details are included in SRS Pro User Manual

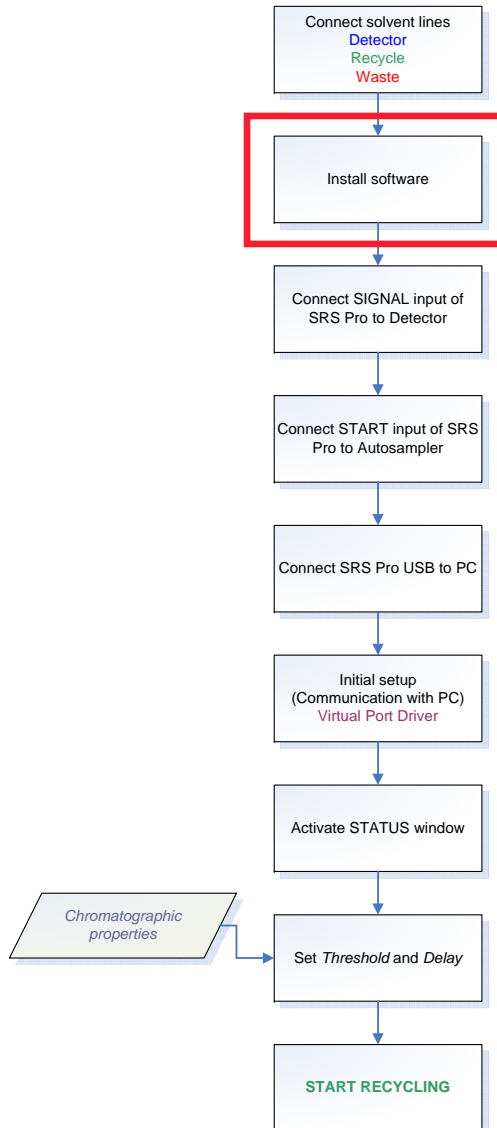


SRS Pro Connect Solvent Lines



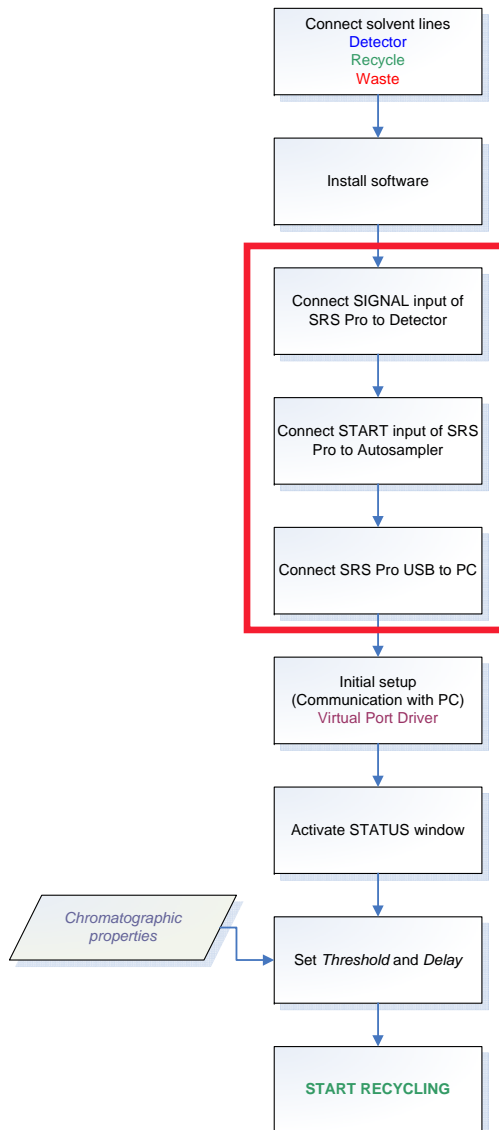
- The mobile phase output from the detector connects to the recycler 3-way valve inlet (marked as **DETECTOR**)
- **RECYCLE** outlet port connects to the mobile phase reservoir.
- **WASTE** outlet port connects to the solvent waste bottle.

SRS Pro Install Software



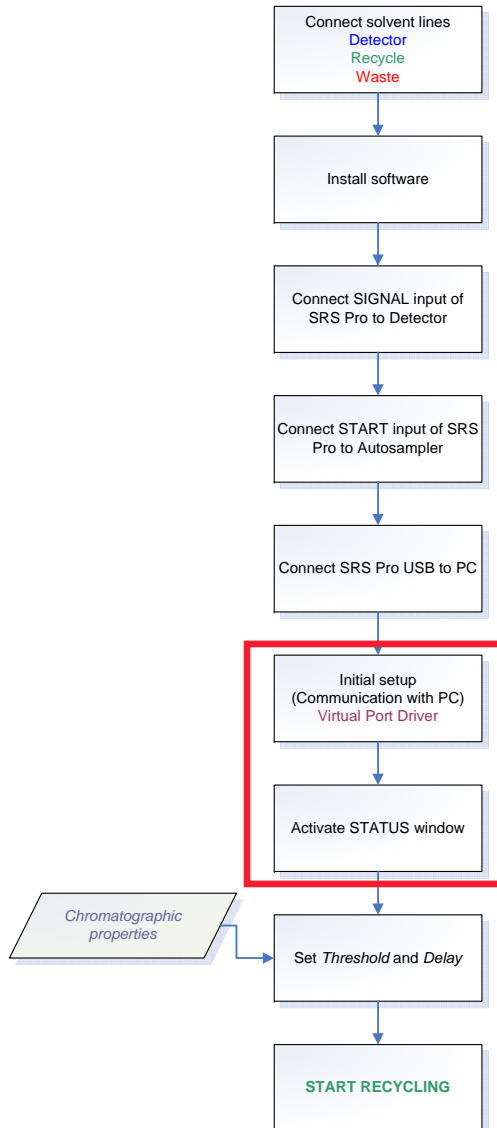
- Insert SRS Pro software CD
- Automatic software installation
 - Follow installation instructions

SRS Pro Electrical connection

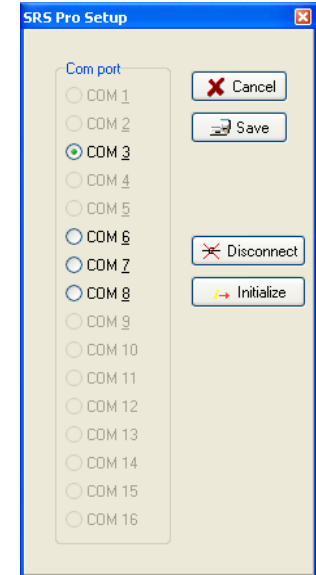


- Connect the **SIGNAL** input of SRS Pro with the output from the HPLC detector using the cable provided
- If auto zero of SRS Pro is required, the **START** input should be connected to the contact closure of the HPLC autosampler
- Connect the USB cable of solvent recycler to the PC

SRS Pro System Activation

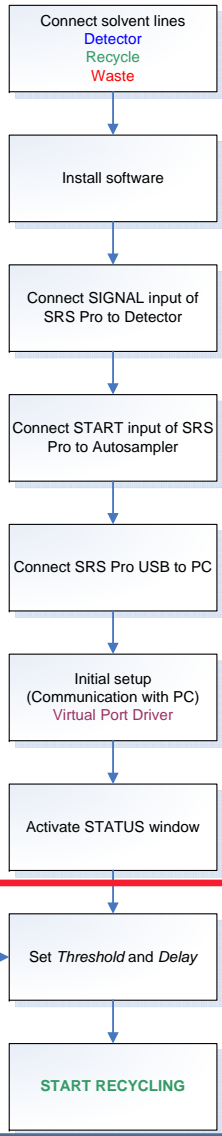




- Select com port



- Start the SRS Pro application 

SRS Pro Easy Plug & Play Operation



- Select threshold 
- Select delay 



- Start Recycling!

SRS Pro What comes in the box?

- SRS Pro Solvent Recycler
- Standard “universal” cables (Qty 2). These are left without connectors so that the operator can connect to their instrument
- Cable with BNC connector (fits Agilent detector output)
- LC Connection Kit
 - Connectors (Qty 3)
 - Ferrules (Qty 3)
 - pTFE tubing
- User manual
- Quick start guide
- System CD

SRS Pro Possible Questions & Answers

Q: Do I need a separate power cable for SRS Pro?

A: No. SRS Pro is powered directly from the HPLC system PC through a USB cable.

Q: Can I use SRS Pro with any HPLC instrument?

A: SRS Pro has a standard cable that can be connected to any detector with a 1V output, although it may be necessary to fix a connector to the standard cable. A specific cable is supplied for use with Agilent HPLC systems. A second standard cable is also supplied to connect to the injection signal. This will need to be wired to a connector that fits the user instrument.

Q: Can I use SRS Pro if I have a gradient method?

A: No. Because SRS Pro redirects mobile phase to the solvent reservoir, it can only be used with isocratic methods.

Q: Is it possible to change the threshold value below which solvent is recycled?

A: Yes. The threshold value can be set manually in the SRS Pro software.

SRS Pro Ordering Information

- SRS Pro Solvent Recycling System 66001-001
- Accessories
 - Universal Cable 66001-002
 - Agilent Detector Cable 66001-003
 - LC Connection Kit 66001-006

SRS Pro Support literature

- PR announcing product release
- Web page
- Product Specification Sheet
- Acetonitrile reduction presentation
- Chromatography Resource Center



Welcome to our new-look Chromatography Resource Center. This is the home of Thermo Scientific Chromatography Columns and Consumables. Here you can find solutions to your separations needs. We have over 6000 established separation methods in our database, as well as many articles and downloads which we think you will find useful.

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News

Global Shortage of Acetonitrile [new!](#)
The global shortage of acetonitrile is causing concern for many HPLC operators. Here, we present a number of solutions to help reduce or replace acetonitrile in test methods.

Chromatography Reagents and Solvents [new!](#)
We now provide a range of derivatization reagents, standards and solvents in the Thermo Scientific chromatography consumables range.

CHROMATOGRAPHY

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Thermo Scientific SRS Pro Solvent Recycling System
Recycle solvent in isocratic methods

- Compact design
- Powered directly from USB connection to instrument PC
- Easy plug and play operation

Product Information Brief



Reducing Consumption

The Thermo Scientific SRS Pro solvent recycling system can reduce mobile phase consumption by up to 90%, by redirecting unattended mobile phase to the solvent reservoir during isocratic HPLC operation.

With a modern, compact design and innovative features, our SRS Pro brings a fresh approach solvent recycling. No power adapter is required as the solvent saver is powered directly from the chromatography data system PC through a USB connection.

Easy to use software is provided to configure the system parameters, and also includes on-line monitoring and audit trail facilities.

Analog input allows unipolar or bipolar operation of the device within a range of ±1V with an analog-to-digital converter facilitating further evaluation by the built-in processor.

TTL/contact closure for the device can be configured as start, auto-zero or valve position control input.

Operational Principle

The SRS Pro continuously monitors the output signal of the chromatographic detector, recycling the mobile phase to the solvent reservoir when the baseline is below a certain preset threshold. Operation of the SRS Pro is illustrated in Figure 1.

If the input signal level exceeds this threshold value, the SRS Pro redirects the eluent flow to waste (Figure 1a), taking account of the transport time from the detector to the switching valve.

When the signal returns below the threshold (Figure 1b), the SRS Pro again waits for the transport delay and then switches the mobile phase back to the reservoir.

Autosampler injection marker connected to the SRS Pro may ensure the zeroing of signal input at the moment of injection.

The SRS Pro is designed to recycle the mobile phase only if switched on. The normal position of the 3-way valve is waste. Therefore, in case of power failure the valve remains in the waste position and the mobile phase in the reservoir remains uncontaminated.

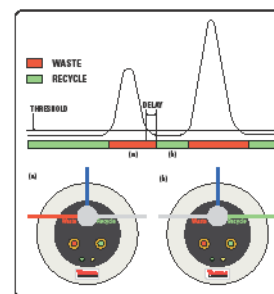


Figure 1: SRS Pro Operation

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