

## THE MEDILAB SRJ-20A SOLVENT RECYCLER



Intelligent mobile phase recycling is accomplished by placing an electrically actuated Recycle Valve in the fluid path between the HPLC detector and the solvent waste reservoir. The signal processor in the Recycler SRJ-20A, which monitors the detector signal to determine when peaks and other contaminants are passing through the detector flow cell, controls the valve.

When a contaminant is detected, the Recycle Valve is diverted the waste solvent container. When no contaminants are present, the Recycle Valve sends clean solvent back to the mobile phase reservoir for reuse.

### ADVANTAGE

Using SRJ-20A solvent Recycler, you will quickly recover your initial investment and continue enjoying substantial savings for years to come. While decreasing the pollution of waste to the environment.

### THE FEATURES

- Ø Recycling mobile phase is more than 90%
- Ø Manual control and remote control can recycle mobile phase or waste directly.
- Ø The purity of mobile phase can be controlled precisely by the 4-degree Threshold switch.
- Ø Time delay of the valve switch can be set from 10 to 90 seconds.
- Ø The selectable three-range input degrees match various HPLC detectors.
- Ø The polarity and the change of level of detecting signals are indicated by LED light and illuminant tape.
- Ø Auto zero (it can match with the detector zero point automatically).

## PARAMETERS

SRJ-20A has three parameters that can be chosen by users.

### 1.RANGE

SRJ-20A's input range (10mV, 100mV or1v) matches the HPLC detector's full-scale output range.

### 2.THRESHOLD

When the detector's output signal exceeds the selected THRESHOLD value (0.1%, 0.5%, 1%, 5% of full scale) indicating a peak is present, the Recycle Valve sends the contaminated detector effluent to waste container. The Recycle Valve returns to the recycle position after the detector signal falls below the THRESHOLD value and the TIME DELAY has elapsed.

### 3.TIME DELAY

It holds the Recycle Valve in the waste position for the specified amount of time (10,20,until 90 seconds) after the detector signal drops below the THRESHOLD valve. The TIME DELAY accounts for tailing peaks and plumbing volume between the detector and the Recycle Valve. Set these three parameters, and SRJ-20A operates accurately and reliably with little or no intervention.

## SRJ-20A SOLVENT RECYCLED SPECIFICATIONS

Recycle Valve:	2position Electrically Actuated All wetted parts are Peek and TFE Fitting are 1/16",1/4"-28 Flange-Free
Max Flow:	50ml/min(As supplied with 1.5M1/16" Tubing on each port).
Analog Input:	10mV,100mV and 1V
Display	Red and Green LED"s
Zero setting:	Automatic Zero setting
Remote input:	Switch or TTL signal
Power:	13.5Volts DC/500mA
Dimensions:	7.28"LX6"WX2.7H (18.5cmLX14.2cmwX6.28Hcm H)
Weight:	2.21bs(1.0kg)

## The connection of SRJ-20A as the following:

The SRJ-20A Solvent Recycler returns clean mobile phase to mobile phase reservoir for reuse or sends chromatographic peaks to waste container.

