

# EcoSaver™

- ◆ Reduces Mobile phase consumption up to 80%
- ◆ Reduces Disposal Cost
- ◆ A Solvent Saver at a very attractive price
- ◆ Pays for itself in less than 90 days

The Jour EcoSaver™ decreases isocratic HPLC mobile phase consumption by recycling uncontaminated mobile phase back to the solvent reservoir. Contaminated solvents are diverted to waste.

Recycling is accomplished by placing an electrically actuated two position spring loaded valve immediately downstream from the system's detector. In response to a signal from the Control Module, the valve directs effluent from the detector either back to the mobile phase reservoir or to a waste container.

EcoSaver™ is ideal for those

labs that do not require the advanced programming, validation and system clean-up features of its bigger brother **Model 2907 Solvent Saver**.

The Valve's position (Waste or Recycle) is set based on the signal coming from the detector. When the detector signal deviates from zero (indicating the presence of a peak or contaminant) the valve switches to Waste position. When the detector signal is at zero (indicating presence of mobile phase only) the valve switches to Recycle position sending clean mobile phase into the reservoir for reuse.

EcoSaver™ has 3 parameters - Range - Threshold and Time Delay which determine when solvent is recycled. Red and green LED's indicate the selected parameters. Range (10mV and 1V) should match the signal output from the detector. The threshold value (a percent of the full-scale detector range) determines when a deviation from zero is considered a contaminant. Whenever the detector signal exceeds the Threshold Value, the valve is set to Waste Position and detector effluent is diverted to waste. The valve returns to the Recycle position after the detector signal falls below the Threshold value.

To account for tailing peaks and plumbing between the detector and the valve, a second parameter, Delay Time, may be used to hold the valve in

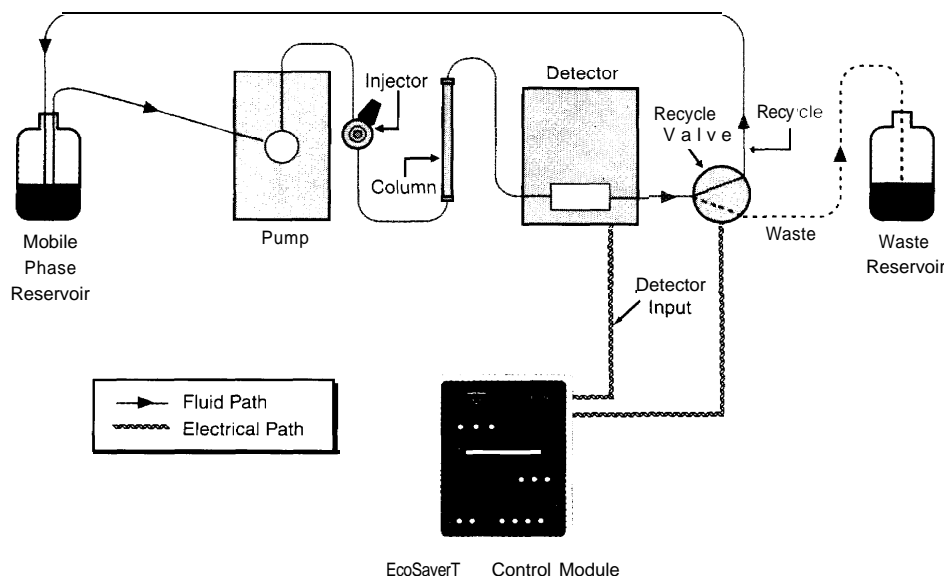
Waste Position for 10, 30 or 60 seconds after the detector signal drops below the Threshold Value.

Threshold selections include 0.1% - 0.5% - 1% and 5% of full scale.

EcoSaver™ diverts both positive and negative peaks to waste and can be Auto-zeroed manually on the key pad - or - remotely by a contact closure. The red LED indicates "waste" - the green "recycle" and an LED light bar monitors the baseline.

### Washing your columns...

A unique feature "Remote Override" can control the Recycle Valve and is activated using a continuous contact closure supplied by a remote device. When activated it causes the EcoSaver™ to ignore the incoming detector signal and will hold the valve in the Waste position. It is very useful for unattended wash operations since now all the wash volume goes to waste. Generally 20 column volumes of the solvent wash is sufficient to clean the column.



EcoSaver™	
0001-5731	Jour Ecosaver™ Solvent Saver 220 VAC 50/60 Hz
0001-5733	Jour EcoSaver™ Solvent Saver 110 VAC 50/60 Hz

EcoSaver™ Specifications	
<b>Power</b>	Wall mount transformer 220 VAC in, 12 VDC @ 800mA out
<b>Display:</b>	Red and Green LED's
<b>Recycle</b>	2-Position Electrically Actuated. All wetted Parts are PEEK and PTFE. Fittings are 1/16 1/4-28 - Flangeless Max Flow as Supplied with 5ft 1/16" Tubing an Each Port = 50 mL/min. Max Flow: with Short 1/8" Tubing = 250 mL/min.
<b>Analog Input</b>	User Selectable ranges : 10 mV and 1V
<b>AutoZero:</b>	Manual or Remote.
<b>Remote Inputs:</b>	Remote Override and Remote Autozero
<b>Dimensions:</b>	7"L x 5.5"W x 2.75"H (17.78 cm L x 13.87 cm W x 7cm H
<b>Weight:</b>	2.5lbs (1.1 kg)

