

## New SFC Analytical System: **SFC-PICLAB ANALYTIC**

The SFC-PICLAB ANALYTIC is state of the art analytical system using CO<sub>2</sub> as the main eluent in order to perform chiral and non chiral separations. The unit is designed to achieve analytical works or method development. It is also equipped with fractions collections in order to perform small preparative scale jobs.



### System Specifications

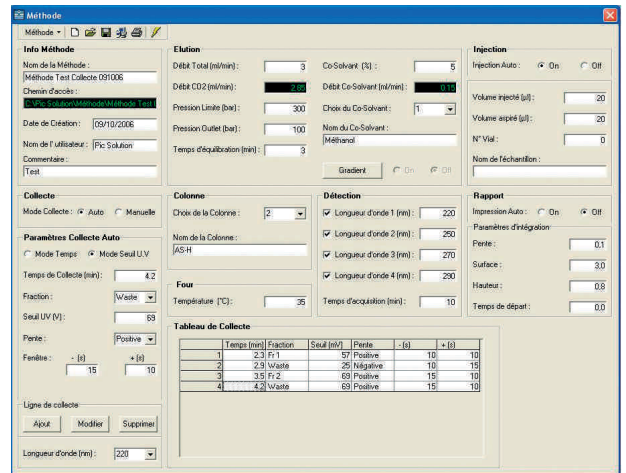
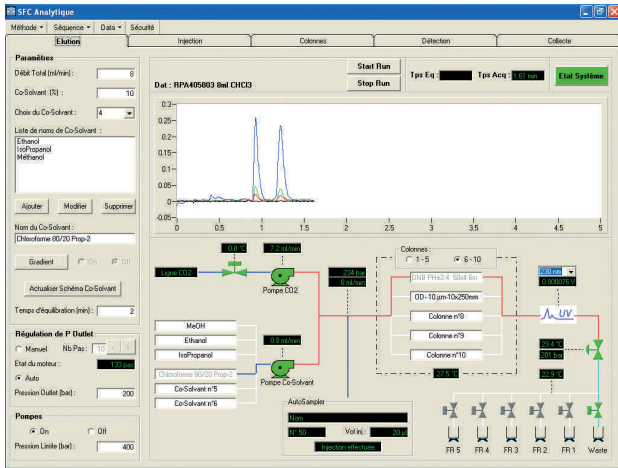
	SFC-PICLAB ANALYTIC
Max Flow rate	20 ml/min
Column size	4,6 and 10 mm I.D
Column switching valve	Yes Up to 10 columns
Co-solvent	Max 10 ml/min (50%)
Co-solvent switching valve	Yes Up to 6 solvents
Max Pressure	350 bar
Temperature	15 to 60 °C
Injection	<ul style="list-style-type: none"> <li>• Automatic by Auto sampler 110 vials</li> <li>• Manual by syringe</li> <li>• Stacked injections for Prep separation</li> </ul>
Detection	VWD /DAD UV Detector and/or chiral detector
Collection	4 to 6 fractions
Production capacity	0,1 - 5 g/day
CO <sub>2</sub> recycling	No
Dimensions (cm)	102(l) x 55(w) x 40 (h)

### SFC-PICLAB ANALYTIC Key Features:

- User friendly control software with data acquisition and processing.
- Column and modifier automatic screening for fast method development.
- Possibility of modifier and flow rate gradient.
- Specially designed oven for sub-ambient temperature containing up to 10 columns (4,6 to 10 mm i.d) easily accessible. A column configuration for chiral separation can be the following: 5 analytical columns 4,6 mm i.d for screening; and 5 identical 10 mm i.d columns for preparative separations at small scale.
- Manual injection by syringe or automatic injection by auto sampler.
- Auto sampler with 110 vials: Using a syringe, the system mimics manual injections and eliminates the need for transfer lines, reducing the risk of sample carry-over.
- Small scale Preparative separation on 10 mm i.d column with extended flow rate range (up to 20 ml/min).
- Highly efficient gas-liquid separators for easy sample collection: Up to 6 collected fractions.

## Control Software:

- Interface is divided in elution, injection, column, detection and collection windows which make easy to set up separation parameters.
- Direct control from the flow sheet or automatic control by loading a method.
- Building method is easy thanks to the “method assistance builder” which helps you in setting up your separation parameters for elution, injection, detection, report format, etc...
- New procedure for building screening sequences: It is quick and simple. You just need to select Columns and modifiers you want to screen from those available and installed on the system.
- Columns and modifiers libraries: No need to retype a column or modifier label, you just have to recall it from the existing library when building a new method.



## Data Acquisition and Processing:

- Data acquisition at 4 different wave lengths simultaneously for easy peak identification, available in our standard unit. Optional diode array detector on request.
- Manual and automatic peak integration. Delete or add peak, Overlay chromatograms to compare them, Zoom in to see peak details, and other useful functions.
- Choose your report format: You can select the chromatographic results you want to display and print in your report: Efficiency, peak area and %, asymmetry, height, etc...

