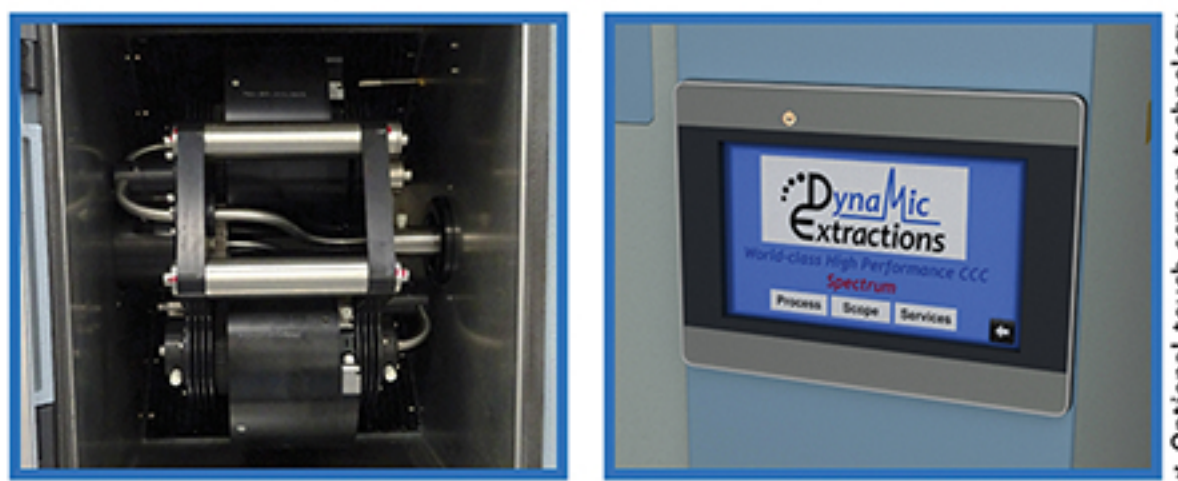


Spectrum Series 1000 High Performance CCC Processor



* Optional touch screen technology

Benefits of Spectrum Series 1000 for target compound separation

- High Mass and Volume Injection Loadings
- Improved handling of Sample Solubility Issues
- Ease and Cost of Scale-Up
- Extremely Low Solvent Usage
- Total Sample Recovery
- Reduced Sample Preparation
- New Elution Strategies

Typical Spectrum Series 1000 Applications in Medicinal Chemistry & Functional Compound Purification

- Solubility: Where solubility of your sample is problematic to your existing purification techniques
- Product Development; Where you do not want to redevelop you purification processes at each differing scale
- Purifying Target Compound: Where you want to purify target compound from crude samples, which are early in their chemistry development and can not be handled by other techniques without significant sample preparation

Dynamic Extractions specialises in offering separation and purification technology, which provides additional capability to chemists who want to purify products from Discovery Stage through Research & Development to Manufacture.

The Spectrum Series 1000 processor is based on traditional liquid/liquid partitioning and extends the purification options available to chemists in Discovery and Development, who are looking to purify samples from mgs to 5-10 grams of material.

The processor can be provided as a stand alone, fully operational system with 24/7 capability or it can be interfaced into existing LC systems to enhance their resolution capability.

The added advantage of the technique is that it easily scales to preparative and kilo scale with no requirement to redevelop the separation method as it is directly transferable from analytical to kilo scale.

The equipment is fully supported by the Dynamic Extractions after sales team that provides: training, feasibility studies, method development and troubleshooting advice. This ensures that all customers have peace of mind and confidence in the technique.



Technical Description

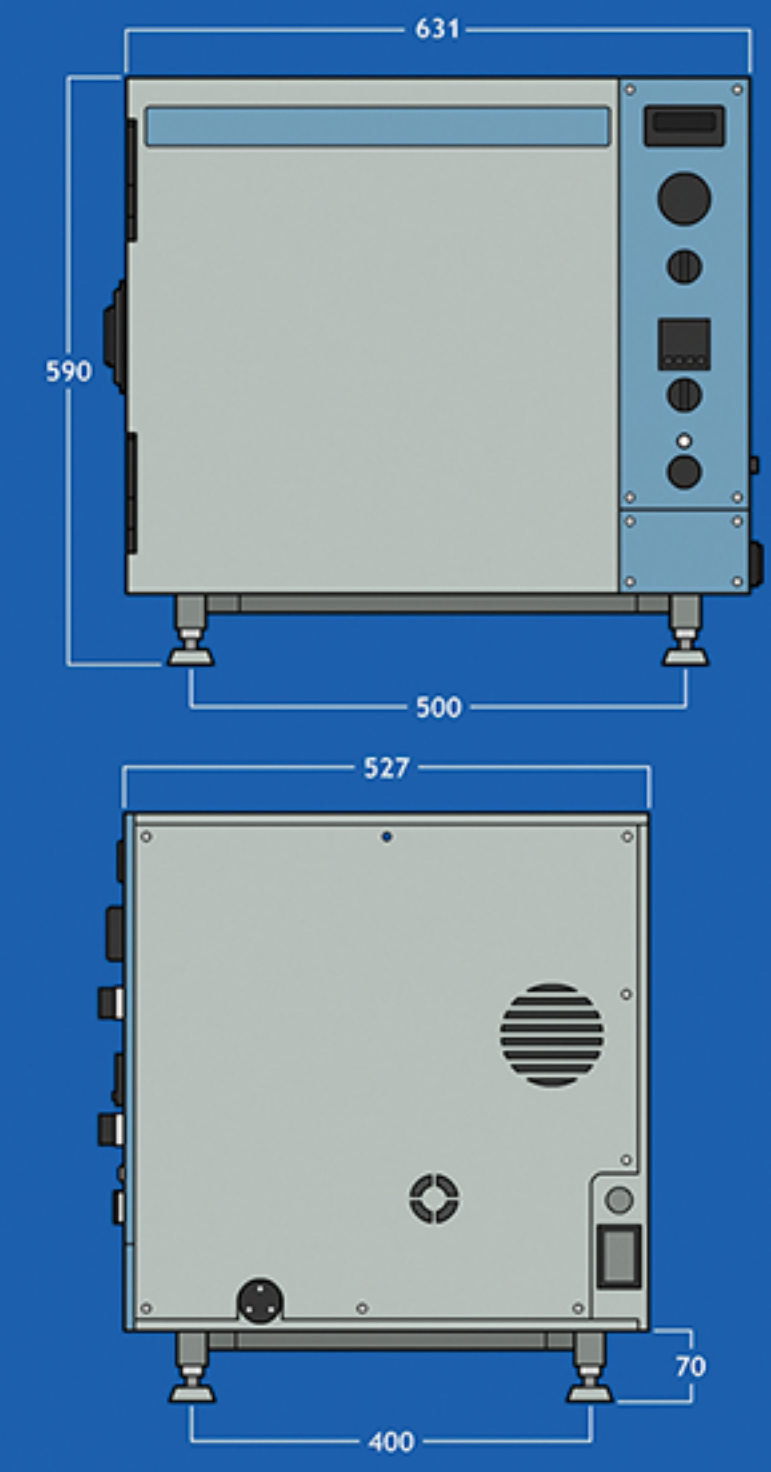
The Dynamic Extractions Spectrum Series 1000 processor is simple in concept and consists of a length of tubing wound in a coil on a drum, which is centrifugally rotated in a planetary motion. Separations are achieved by partitioning the sample between two immiscible liquids: a stationary phase which is retained in the tubing and a mobile phase which is pumped through the tubing.

The operational process is extremely straightforward. The mixture is introduced in the mobile liquid and is separated into its component fractions by the time it emerges at the other end of the tubing. A separation of the mixture occurs, because along the tubing's length there are alternate mixing and settling zones created by the centrifugal forces generated. The order in which the fractions appear depends on how they distribute between the two liquids. The entire sample is recoverable, and highly pure fractions can be obtained since the sample undergoes up to 100,000 mixing and settling steps per hour. This allows the technology to be applied to the separation of substances, which are difficult to purify and/or may be unstable by other existing techniques.

Standard Features

- Column - 940ml
- Performance - 240g (1,400rpm) equipment allowing separations in minutes
- Temperature control - Ensures reproducible chemistry of separation
- Safety features
 - Column Door Interlock
 - Automatic Shutdown on Out of Balance Operation
 - Automatic Shutdown on High Temperature Operation
- Low Solvent Usage - Typically 10% of that used in an equivalent solid phase separation
- Low Pressure Operation - 60 - 105psi (4-7bar)
- Easy to use - simply interfaced to existing LC equipment (pumps, detector and fraction collector etc)

Technical Specifications	
Column Volume (nominal)	940ml
Sample Load per Injection	15-25 grams
Column Bore (id)	4.0mm
Flow Rate (max)	100 ml/min



Dimensions		
Height	600mm	24"
Width	640mm	26"
Depth	540mm	21"
Weight	140kg	310lb
Rotor Radius	110mm	4.33"
Electrical Supply	230-115V/50-60Hz	
Power Rating	1.0kVA	



Solving Scale-Up and Purification Challenges in Target Compound Separation



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