

## Waters Alliance 2695, 2487, Oven and PC Integral Module

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Superb Waters Alliance 2695 system with oven, 2487 UV/VIS detector, PC, new TFT screen and printer!

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### Waters Alliance 2695 Spec

This Waters Alliance 2695 Separations Module consists of a quaternary pump, degasser and a variable volume autosampler, capable of injecting from 5 x 24 2ml vials.

The four solvent in-line degasser offers a high efficiency alternative to helium sparging for the removal of dissolved gases from HPLC mobile phases.

### Alliance (Year 2000)

Designed for a wide variety of applications, this reliable tool is a common work-horse in most analytical and contract labs. Built to meet labs rigorous requirements or routine analysis, suited to Pharmaceutical, Food Safety, R&D, Chemistry, Environmental or Quality Control labs. Featuring a large, easy-to-use LCD interface, take advantage of the quick autostart and optimize your methods with a simple push of a button. Manage up to 120 industry standard vials with the built in autosampler

\*Sample chiller available for this Alliance - add £2000 - enquire for details.

### Solvent Management

**Number of Solvents :** 1 to 4

**Solvent conditioning :** Vacuum degas, two operating modes, four chambers,

**Compressibility compensation :** Automatic and continuous

**System delay volume :**

**Plunger seal wash :** Integral, active, programmable

**Gradient profiles :** 11 gradient curves including linear, step (2), concave (4), and convex (4)

**Dry prime/wet prime :** Automatic front panel control, SystemPrep function for automatic solvent(s) purge

**Flow ramping :** Time (0.01 to 30.00 min in 0.01 min increments) to reach maximum flow rates

**Maximum operating pressure :** 5000 psi (345 bar) (0.010 to 3.000 mL/min) programmable upper and lower limits

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**Composition range** : 0.0% to 100.0%, in 0.1% increments

**Composition accuracy** :  $\pm 0.5\%$  absolute, independent of backpressure (proportioning valve pair test, [degassed methanol: methanol/propylparaben, 2.0mL/min, 254nm])

**Composition precision** : less than or equal to 0.15% RSD or less than or equal to 0.02 min SD, whichever is greater, based on retention time (degassed methanol: water 60:40 dial-a-mix, 1.00mL/min, six replicates, phenone mix, 254nm)

**Flow precision** : less than or equal to 0.075% RSD or less than or equal to 0.02 min SD, six replicates, based on retention time or volumetric measures (0.200 to 5.000 mL/min), isocratic premix

**Flow rate range** : 0.000 to 10.000 mL/min (0.050 to 5.000 mL/min typical) in 0.001mL/min increments

**Flow accuracy** :  $\pm 1\%$  or 100 $\mu$ L/min whichever is greater, 0.200 to 5.000 mL/min (degassed methanol, at 600 psi backpressure)

## Column Heater

The column heater provides accurate temperature control which enhances chromatographic results by creating a consistent separation environment for method reproducibility. It has a capacity of two columns (8mm ID mx, 30cm length max). Heats up to 60°C, programmable in 1 °C increments.

## 2487 UV/Vis Detector

The 2487 detector is a 2 channel, tunable ultraviolet/visible (UV/Vis) detector that operates in single or dual wavelength mode, allowing spectrum scanning using a flow cell or a cuvette, providing RatioPlot and MaxPlot functions.

### Single Wavelength Mode

Single wavelength is the default mode of operation for the 2487, supporting monitoring of a single wavelength from 190nm to 700nm, settable in 1nm increments on Channel A.

### Dual Wavelength Mode

In dual wavelength mode, the detector monitors on Channel A and Channel B. The sampling frequency is reduced from 10Hz to 1Hz, limiting use of this mode to more standard chromatography, where peaks span at least 20 seconds to enable full characterisation of a peak.

### Features

Stand-alone programmability - Stores up to 10 user defined programs (or methods) consisting of up to 16 programmable timed events and 2 threshold events each.

Integral erbium calibration reference - ensures wavelength accuracy

Automatic second order filter - Automatically engaged for wavelengths 370nm and greater and removed for wavelengths 369nm or less.

Spectrum scan and storage - supports spectrum scan, display, subtraction, storage and playback, in

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addition to standard tunable absorbance and UV/Vis functionality.

Cuvette qualification - facilities qualification of the detector by insertion of a standard in a cuvette without breaking any fluidic connections.

Cuvette sample analysis - allows the spectrum of any sample placed in the cuvette to be recorded.

Method editing and storage - supports basic method programming, storage and retrieval from the front panel

Full diagnostic capability - supports built in diagnostic tools to optimize functionality and performance.

Backward compatibility - operates as a 486 detector with Millennium Chromatography manager version 2.1n and lower, PowerLine, ExpertEase and other Waters products connected via the LAC/E interface using the IEEE-488 bus.

## Specification

Wavelength range: 190nm to 700nm

Bandwidth: 5nm

Accuracy:  $\pm 1$ nm

Repeatability:  $\pm 0.10$ nm

Sensitivity setting range: 0.0001 AUFS to 4.0000 AUFS

Lamp Source: Deuterium arc lamp

Flow cell: TaperSlit Flow Cell Design

Pressure limit: 1000psi / 70bar

Materials: 316 stainless steel, fused silica, Teflon.

Operating temperature: 4°C to 40°C

Operating humidity: 20% to 80%, noncondensing

Line frequency: 50Hz to 60Hz

Dimensions: 208mm(H) x 503mm (L) x 284mm (W)

Weight: 9.3 kg

Operating Voltage for the system: 230 Volts AC.

This item is in excellent condition, comes with full OQ documentation and is superb value - please contact us below for a quotation.