

ACCQPrep HP125

Achieve High Performance Preparative Liquid Chromatography (HPPLC) simply, without compromise.

The Teledyne Isco ACCQPrep HP125 was developed and designed with the ease of a Flash system in mind. It does not follow the traditional path of an analytical system, but rather this system has been designed to be intuitive and easy-to-use.

The ACCQPrep HP125 eliminates the unnecessary and complex integration parameters found in many of the HPPLC systems in today's market. Our PeakTrak® software, which currently drives our CombiFlash® product line, is the basis for controlling the ACCQPrep HP125. By using this software, the need for a standalone PC is eliminated. This results in a smaller, more compact unit with an integrated touch screen interface.

Enjoy the confidence associated with Teledyne Isco's active solvent and waste level monitoring, which reduces the risk of solvent spills. In addition, all sample and collection racks are RFID coded eliminating the potential of missed tubes.

- **Straightforward**
Complete control of the system on one screen
- **Compact**
Designed to take up minimal lab space
- **Flexible**
Compatible with Teledyne Isco Automation Modules and other detection systems for maximum efficiency



ACCQPrep
HP125

Standard System Features

- Flow rates from 1 to 125 mL/min allow development of Prep methods directly on the system without the need for pump head changes
- Operating pressure up to 6000 psi
- Choice of UV or UV-Vis plus ELSD and MS options

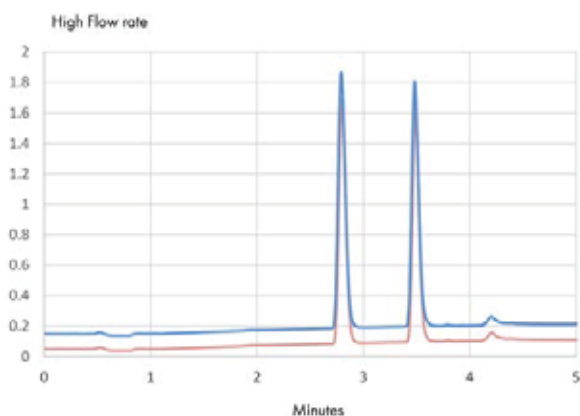
The ACCQPrep HP125 uses two dual piston reciprocating pumps with high pressure mixing to minimize gradient delay volumes. With high pressure gradient formation and a unique pump design which operates across the full range of flow rates from analytical columns (1 mL/min) to 50 mm and larger preparative columns (125 mL/min), the need to switch out pump heads is eliminated. This allows the use of an analytical column for simplified scouting and method development directly on the system.

ACCQPrep HP125

Start with the binary gradient base system or add the optional solvent selection valve to allow selection from six solvents. The minimal gradient delay design allows purification method development on the ACCQPrep HP125 using a 4.6 mm analytical column. The method can be automatically scaled to a larger preparative column.

Performance Without Compromise

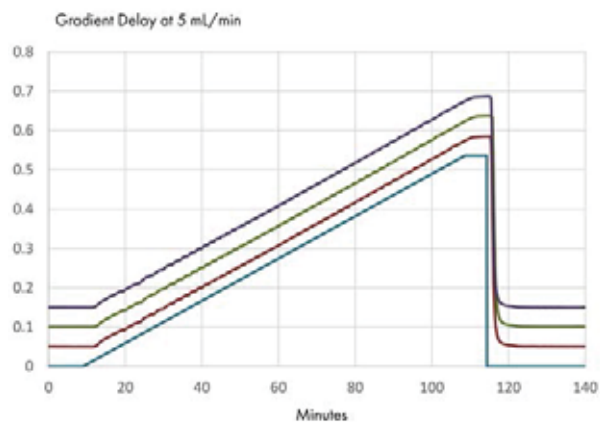
Graph 1 illustrates no compromise in performance even when the system is operating close to the maximum system pressure of 6000 psi and running flow rates that are higher than ideal.



Graph 1 – Mixture of methyl and propyl paraben run on a 10x150 mm column at 19 mL/min with a pressure of 5,000 psi

Gradient Reproducibility

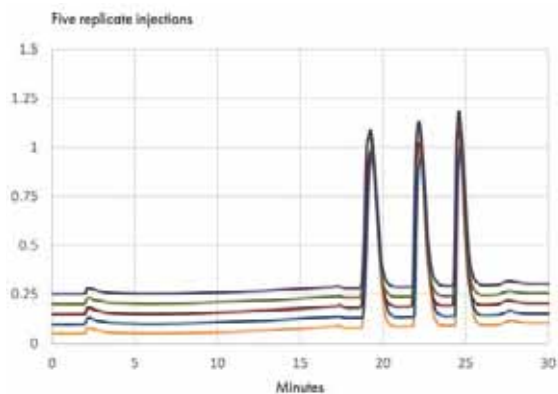
Graph 2 compares the programmed gradient against the profile obtained from three consecutive runs at 5 mL/min. The gradient closely follows the programmed profile, indicating minimal delay volumes, and the reproducibility is unmatched.



Graph 2 – Gradient Delay
This gradient reproducibility results in repeatable chromatographic runs.

No Need for Temperature Control

Graph 3 shows five injections overlaid using a test mixture of ethyl, propyl, and butyl paraben. There is minimal retention time shifts over a three hour period without the use of any temperature control.



Graph 3 – Five Injection Test



ACCQPrep HP125 and Automation Modules

The system is ready for hours of unattended operation when combined with our automation modules.

- The **AutoInjector** provides multiple injections of the same sample.
- The **AutoSampler** allows different chromatographic conditions to be applied to a variety of different samples and doubles the fraction collection capabilities of the system.
- The **Column Selector**, operating alone or when combined with either of these automation modules allows users to run samples on up to four different columns containing different media or different dimensions based on sample size needs.

Specifications	
Flow Rate Range	1 - 125 mL/min
Pressure Limit	up to 6000 psi (400 bar) Lower pressure limits user defined
UV and UV-Vis Detection	Variable UV 200 – 400 nm standard, Variable UV-Vis 200 – 800 nm option
ELSD Detection	Integrated Option that can be combined with either UV or UV-Vis
Number of Solvents	Binary gradient, 2 solvents std, 2 x 3 solvents optional
Gradient Formation	High pressure
Programmable Gradients	Linear, step, isocratic
Gradient Linearity	+/- 1%
Sample Introduction	Variable volume liquid load (5 mL loop standard)
User Interface	15 in touchscreen
Fraction Collector	Internal
Dimensions	(H x W x D) – 27.5 x 14.0 x 20.0 in (69.9 x 35.6 x 50.8 cm) 84.5 pounds (38.2 kg)
Dimensions AS 2x1 AutoSampler Module	(H x W x D) – 18.9 x 14.0 x 19.3 in (48.0 x 35.6 x 49.0 cm) 31.1 pounds (14.1 kg)

ACCQPrep HP125 Systems	
685230035	ACCQPrep HP125 System with 200-400 nm UV variable wavelength detector
685230036	ACCQPrep HP125 System with 200-800 nm UV-Vis variable wavelength detector
685230037	ACCQPrep HP125 System with 200-400 nm UV variable wavelength and ELS detector
685230038	ACCQPrep HP125 System with 200-800 nm UV-Vis variable wavelength and ELS detector

AutoSampler Module	
685237097	ACCQPrep AS 2x1 – AutoSampler Module with sample load and collection racks AI 5 factory installed

Sample Racks	
605234637	Sample load rack, 13 mm (28 tubes/rack)
605234638	Sample load rack, 28 mm (12 scintillation vials/rack)
Collection Racks	
605237013	Collection racks, 13 x 100 mm (108 tubes/rack). Set of 2.
605237061	Collection racks, 16 x 100 mm (75 tubes/rack). Set of 2.
605237031	Collection racks, 16 x 125 mm (75 tubes/rack). Set of 2.
605237032	Collection racks, 16 x 150/160 mm (75 tubes/rack). Set of 2.
605237033	Collection racks, 18 x 150 mm (70 tubes/rack). Set of 2.
605237034	Collection racks, 18 x 180 mm (70 tubes/rack). Set of 2.
605237035	Collection racks, 25 x 150 mm (30 tubes/rack). Set of 2.
605237040	Collection rack, 480 mL square bottle (12 bottles/rack). Qty 1.
605394469	Collection racks, 28 x 61 mm (27 scintillation vials/rack, 20 mL). Set of 2.
605394468	Collection racks, 28 x 95 mm (27 scintillation vials/rack, 40 mL). Set of 2.

MS Add On Options					
685237050	CombiFlash Purlon Mass Spectrometer and Fluid Interface				
685237083	Mass Spec "S" with probe and Fluid Interface				
685237084	Mass Spec "L" with probe and Fluid Interface				
Sample Loop Options					
209900002	Luer Adapter Port for ACCQPrep				
209016930	Syringe Fill Port for ACCQPrep - 2" x 22 Gauge Blunt Tip Needle				
299125065	100 µL Loop for ACCQPrep				
299125061	1 mL Loop for ACCQPrep				
299125062	5 mL Loop for ACCQPrep (standard)				
299125063	10 mL Loop for ACCQPrep				
299125064	20 mL Loop for ACCQPrep				
Factory Installed Options					
685237098	ACCQPrep AI 5 - AutoInjector Factory Installed				
685237099	ACCQPrep CSV 4 - Column Selector Valve Module Factory Installed				
685237100	ACCQPrep SSV 2x3 - Solvent Selector Valve Module Factory Installed				
User Installed Options					
685237101	ACCQPrep AI 5 - AutoInjector User Installed				
685237102	ACCQPrep CSV 4 - Column Selector Valve Module User Installed				
685237103	ACCQPrep AS 2x1 - AutoSampler Module User Installed with sample load and collection racks				
685237104	ACCQPrep SSV 2x3 - Solvent Selector Valve Module User Installed				
685237105	ACCQPrep AS 2x1 Upgrade AutoSampler - Upgrade for an ACCQPrep HP125 with the AI 5 already installed. Includes sample load and collection racks				
Columns					
Length/Diameter (ID)	4.6 mm	10 mm	20 mm	30 mm	50 mm
150 mm C18, 100 Å	692203800	692203808	692203810	692203812	692203814
150 mm C18Aq, 100 Å	692203801	692203816	692203818	692203820	692203822
150 mm C4, 300 Å	692203803	692203832	692203834	692203836	692203838
150 mm Silica, 100 Å	692203802	692203824	692203826	692203828	692203830
250 mm C18, 100 Å		692203809	6922038811	692203813	692203815
250 mm C18Aq, 100 Å		692203817	692203819	692203821	692203823
250 mm C4, 300 Å		692203833	692203835	692203837	692203839
250 mm Silica, 100 Å		692203825	692203827	692203829	692203831
30 mm Guard C18, 100 Å			692203804		
30 mm Guard C18Aq, 100 Å			692203805		
30 mm Guard C4, 300 Å			692203807		
30 mm Guard Silica, 100 Å			692203806		



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Teledyne Isco is continually improving its products and reserves the right to change specifications without notice.

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