

# "ProfIC Vario 1 PCR-UV/VIS" – Professional IC Vario system for automated ion chromatography with post-column derivatization and UV/VIS detection

## ProfIC Vario 1 PCR-UV-VIS

The Professional IC Vario system with post-column derivatization and UV/VIS detection enables fully automated determination of anions, cations, and additional components that can be converted using post-column derivatization into products with optical absorption.




Typical areas of application:

- Universal analysis with post-column derivatization and UV/VIS detection
- Analysis with large numbers of samples without additional sample preparation
- Trace analysis, e.g., of chromate, bromate, transition metals, etc.

Schematic representation

Below, the accessories are grouped into Scope of delivery and Optional accessories.  
Please keep this printout at hand for ordering replacement material.  
These lists may be subject to change.

## Scope of delivery ProfIC Vario 1 PCR-UV-VIS

Qt.	Order no.	Description
1 PCS	2.858.0020	858 Professional Sample Processor – Pump
		<p>The 858 Professional Sample Processor – Pump processes samples from 500 µL to 500 mL. The sample transfer takes place either with the installed bidirectional two-channel peristaltic pump or with an 800 Dosino.</p> 
1 PCS	2.940.1110	940 Professional IC Vario ONE/Prep 1
		<p>The 940 Professional IC Vario ONE/Prep 1 is the intelligent IC instrument without suppression in combination with Metrohm Inline Sample Preparation, e.g., Inline Ultrafiltration or Inline Dialysis. The instrument can be used with any separation and detection methods.</p> <p>Typical areas of application:</p> <ul style="list-style-type: none"> <li>• Anion and cation determinations without suppression after Inline Ultrafiltration or Inline Dialysis</li> <li>• UV/VIS applications after Inline Ultrafiltration or Inline Dialysis</li> <li>• Applications with amperometric detection after Inline Ultrafiltration or Inline Dialysis</li> </ul> 
1 PCS	2.943.0110	943 Professional Reactor Vario
		<p>The 943 Professional Reactor Vario is a heatable reactor, especially developed for pre- and post-column derivatization. It captivates by its robustness, the fast heating rate and the possibility of carrying out reactions at up to 150 °C.</p> 

1 PCS

6.1602.150

Bottle attachment / GL 45 - 3 x UNF 10/32

For the connection of 1/16 in. capillaries. Used in conjunction with MSM auxiliary solutions and in Metrohm Inline Sample Preparation.



1 PCS

6.1608.030

Round glass bottle / 1000 mL / GL 45



1 PCS


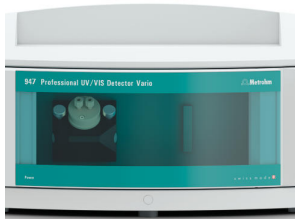
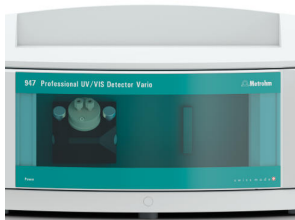
6.1803.030

PTFE capillary 0.5 mm i.d. / 3 m

Capillary for inline dialysis, for Dialysis Unit, IC Dialysis Sample Processor, IC Liquid Handling Dialysis Unit



## Optional accessories

Order no.	Description	
2.941.0010	941 Eluent Production Module	
	<p>The 941 Eluent Production Module enables the automatic production of an eluent. It enables continuous working without manual intervention and guarantees stable retention times. It can be combined with all Metrohm IC instruments and is monitored by MagIC Net.</p>	
2.947.0010	947 Professional UV/VIS Detector Vario SW	
	<p>As an intelligent, single-wavelength detector, the 947 Professional UV /VIS Detector Vario SW permits a secure and reliable quantification of substances active in the ultraviolet or visible range. One wavelength can be selected.</p>	
2.947.0020	947 Professional UV/VIS Detector Vario MW	
	<p>As an intelligent, multi-wavelength detector, the 947 Professional UV/VIS Detector Vario MW permits a secure and reliable quantification of substances active in the ultraviolet or visible range. Up to eight wavelengths can be freely selected. A diode array is used for detection.</p>	

The Metrosep A Supp 10 - 250/2.0 separation column is based on a high-capacity polystyrene-divinylbenzene copolymer with a particle size of only 4.6  $\mu\text{m}$ . This proven column concept optimized by Metrohm is characterized by its robust construction, great selectivity and outstanding separating efficiencies. The 2 mm Metrosep A Supp 10 separation columns are packed with the same material as the corresponding 4 mm separation columns. Temperature, flow and eluent composition can be used to modify the properties of the column to accommodate the current application directly.



The Metrosep A Supp 10 - 250/2.0, as a microbore column, has a very high capacity. It is suitable for samples with high ionic strength, for complex separation tasks and for analyses in which great differences in concentration between the individual components are present. Thanks to its low flow, this microbore separation column is ideally suitable for IC-MS applications.

The Metrosep A Supp 10 Guard/2.0 column reliably protects the A Supp 10 analytical microbore separation columns against contamination. Thanks to the "On Column Guard System", the guard column is very easy to handle. The guard column screws easily and directly onto the analytical column without tools



For injection valve, with 2 PEEK pressure screws



6.1826.310 Pump tubing LFL (orange/green), 3-stopper

Pump tubing for suppressor solutions and for acceptor solutions for inline dialysis and for inline ultrafiltration.



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6.2041.440 Sample rack 148 x 11 mL + 3 x 300 mL

Sample rack for 148 x 11 mL samples with 3 rinsing beakers.



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6.2041.760 Sample rack 54 x 11 mL + 1 x 300 mL

Sample rack with small diameter for 54 x 11 mL sample vessels in two rows and additionally 1 x 300 mL bottle.



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6.2743.040 Vial PP, 2.5 mL, 2000 pieces

2.5 mL. 2000 pieces. For IC Sample Processors.

The IC sample vessels are made of polypropylene (PP) plastic for health-care applications. Production and packaging both take place under sterile and clean-room conditions (Clean Room Class 7, in accordance with DIN ISO 14644). This guarantees minimal degrees of contamination. The sample vessels are subjected to random checks for leachable anions and cations.



6.2743.050

Sample vessel 11 mL

2000 pieces. For IC Sample Processors and VA Autosamplers.

The IC sample vessels are made of polypropylene (PP) plastic for health-care applications. Production and packaging both take place under sterile and clean room conditions (Clean Room Class 7, in accordance with DIN ISO 14644). This guarantees minimal degrees of contamination. The sample vessels are subjected to random checks for leachable anions and cations.



6.2743.070

Stopper with perforation

2000 pieces. For IC Sample Processors



6.2845.110

HT reactor plate, complete, for Professional Reactor

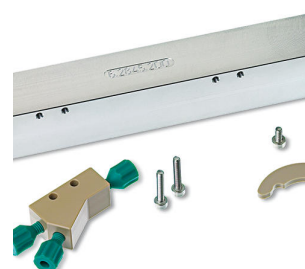
Reactor plate with reactor for PCR applications at high temperatures (> 120 °C). With PEEK reactor capillaries.



6.2845.200

Reactor complete to 6.2845.100

Spare reactor for the reactor plate



Accessory set for assembling the Liquid Handling Station on the Professional Sample Processor. The rinsing water supply can be accomplished by means of a peristaltic pump or a Dosino.



Professional chromatography software from Metrohm for controlling all intelligent Professional IC systems, Compact IC systems and their peripherals, all detectors and the various Auto samplers, 800 Dosino, 771 Compact Interface, etc. The software permits checks, data acquisition, data evaluation and data monitoring as well as report generation of ion chromatographic analyses.



Graphical user interface for routine operations, extensive database programs, method development, configuration and manual control panel; very flexible user management, efficient database operations, extensive data export functions, individually configurable report generator, control and monitoring of all system components and the chromatography results.

MagIC Net Professional complies fully with FDA Regulation 21 CFR Part 11 as well as GLP.

MagIC Net is available in 15 dialog languages: German, English, Chinese, Traditional Chinese, French, Italian, Spanish, Portuguese, Bulgarian, Czech, Hungarian, Japanese, Korean, Russian, Slovakian

With this version, the graphic user interface has been modernized, which improves, among other things, the scaling and sharpness of the user interface on 4K monitors.

1 license

The installation and documents are supplied on a USB flash drive.



Client/server-compatible chromatography software from Metrohm for controlling all intelligent Professional IC systems, Compact IC systems and their peripherals, all detectors and the various Autosamplers, 800 Dosino, 771 Compact Interface, etc.

The software permits checks, data acquisition, data evaluation and data monitoring as well as report generation of ion chromatographic analyses. Data and method are centrally stored on a Server.



Graphical user interface for routine operations, extensive database programs, method development, configuration and manual control panel; very flexible user management, efficient database operations, extensive data export functions, individually configurable report generator, control and monitoring of all system components and the chromatography results.

MagIC Net Multi complies fully with FDA Regulation 21 CFR Part 11 as well as with GLP.

MagIC Net is available in 15 dialog languages: German, English, Chinese, Traditional Chinese, French, Italian, Spanish, Portuguese, Bulgarian, Czech, Hungarian, Japanese, Korean, Russian, Slovakian

With this version, the graphic user interface has been modernized, which improves, among other things, the scaling and sharpness of the user interface on 4K monitors.

Performance for client/server systems with servers outside the in-house company network has been improved.

Client/server version with 3 licenses

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