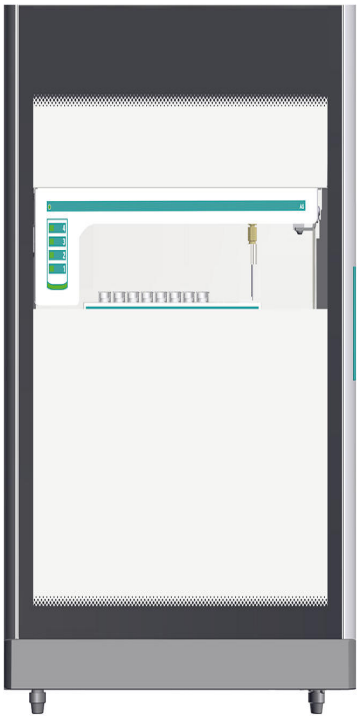


OMNIS IC Autosampler Module COOL

2.1054.0020

The OMNIS IC Autosampler COOL automates the sample change in the OMNIS IC System and enables efficient processing of up to 160 vials of 5 mL each, depending on the selected rack. In addition, the OMNIS IC Autosampler COOL offers the option of precisely controlling the temperature in the range from 4 °C to 22 °C, enabling a large number of samples to be cooled. The cooling function is ideal for thermally unstable and biochemically relevant samples, for example in the analysis of organic acids, halogenated acetic acids, amino acids, and carbohydrates.

Key features:

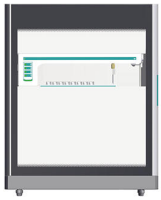
– Compact footprint: Can be placed directly under the OMNIS IC
– Temperature control from 4 °C to 22 °C
– High sample throughput, large quantity of coolable samples: (96 x 10 mL vials, 160 x 5 mL vials, 192 x (1500, 700, 300) µL HPLC vials, 384 x 2 mL well format (deep well plate)
– High speed (30 s/injection of 5 µL)
– Removable autosampler tray for easy loading and unloading
– Interior lighting for easy loading and unloading
– Fast and precise xyz needle drive with automatic vial detection

– Follow-up light and status display for visual traceability of needle movement and autosampler status
– High flexibility for different sample vessels and rack types (including customer-specific racks)
– Six integrated positions for 50 mL bottles, e.g., for standards or rinsing solutions
– Integrated rinsing station and leak detection as standard for maximum safety
– Fully integrated into the OMNIS Software
– Optional upgrades: 3/2-way valves, dilution station, barcode reader

Phạm vi giao hàng 2.1054.0020

Order Number	Description	Quantity

1.1054.0020



OMNIS IC Autosampler Module COOL 1 PCS

The OMNIS IC Autosampler COOL automates the sample change in the OMNIS IC System and enables efficient processing of up to 160 vials of 5 mL each, depending on the selected rack.In addition, the OMNIS IC Autosampler COOL offers the option of precisely regulating the temperature in the range from 4 °C to 22 °C, enabling a large number of samples to be cooled.The cooling function is ideal for thermally unstable and biochemically relevant samples, for example in the analysis of organic acids, halogenated acetic acids, amino acids, and carbohydrates.

Key features:

– Compact footprint: Can be placed directly under the OMNIS IC
– Temperature control from 4 °C to 22 °C
– High sample throughput, large quantity of coolable samples: (96 x 10 mL vials, 160 x 5 mL vials, 192 x (1500, 700, 300) µL HPLC vials, 384 x 2 mL well format (deep well plate)
– High speed (30 s/injection of 5 µL)
– Removable autosampler tray for easy loading and unloading
– Interior lighting for easy loading and unloading
– Fast and precise xyz needle drive with automatic vial detection
– Follow-up light and status display for visual traceability of needle movement and autosampler status
– High flexibility for different sample vessels and rack types (including customer-specific racks)
– Six integrated positions for 50 mL bottles, e.g., for standards or rinsing solutions
– Integrated rinsing station and leak detection as standard for maximum safety
– Fully integrated into the OMNIS Software
– Optional upgrades: 3/2-way valves, dilution station, barcode reader

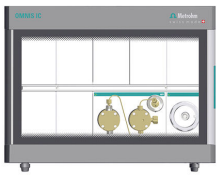
6.05000.060

Accessory kit: OMNIS IC AS COOL 1 PCS

Accessory set to complete the installation of the OMNIS IC Autosampler COOL.

Phụ kiện tùy chọn

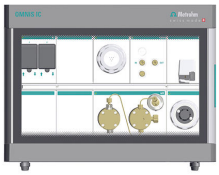
2.1050.0010
OMNIS IC S Module



The OMNIS IC S Module is the start instrument in the OMNIS IC world and gives the entire flexibility for complete customization. It includes an OMNIS High-Pressure Pump Unit and an OMNIS Actuator Unit with a flexible choice of the injection valve, and features a transparent door for easy access.
The additional 7 free units enable the creation of a fully personalized IC system. Tailored to meet individual application needs, the OMNIS IC S Module can be equipped with various units, such as the OMNIS Conductivity Detector Unit, the OMNIS MSM Unit, the OMNIS MCS Unit, the OMNIS Degasser Unit, the OMNIS Peristaltic Pump Unit, the OMNIS Column Holder Unit or the OMNIS Column Thermostat Unit, or even automatic eluent production or low-pressure gradient.
Blind Cover Units are standard not provided and need to be added additionally.
A baseplate or autosampler is required, along with a Reagent Organizer or Reagent Organizer Liquid Control. For full automation, there is the free choice to add an integrated OMNIS IC Autosampler or an OMNIS IC Autosampler COOL.
At any time, the OMNIS IC S Module can be upgraded with freely configurable OMNIS Extension Modules to further improve the performance, for example, with sequential suppression or Metrohm Inline Sample Preparation options.
The OMNIS IC instrument is compatible with the 947 Professional UV/VIS Detector Vario and the 945 Professional Detector Vario – Amperometry, expanding the options for detection.
Reach out to your local IC specialist to configure your own fully customized ion chromatograph tailored to your specific application needs.

2.1050.0020

OMNIS IC S COND/MSM/PP /CH



The OMNIS IC S COND/MSM/PP/CH is the start instrument in the OMNIS IC world with basic sample introduction and chemical suppression. It is provided as a pre-installed, ready-to-use sales version with an OMNIS High-Pressure Pump Unit, an OMNIS Actuator Unit, an OMNIS Conductivity Detector Unit, an OMNIS MSM Unit, and an OMNIS Peristaltic Pump Unit with two channels. It features a transparent door for easy access and a Reagent Organizer.

It is equipped with an OMNIS Column Holder Unit with intelligent column chip technology. For sample transport and injection, a peristaltic pump and a 6/2-port valve are integrated. The 3 empty unit spaces give flexibility to upgrade the system, for example, with an OMNIS Dosing Drive Unit, an OMNIS MISP Unit, an OMNIS Degasser Unit, or an OMNIS MCS Unit for sequential suppression.

The OMNIS IC instrument is foreseen to be placed on an autosampler. There is the free choice to add an integrated OMNIS IC Autosampler or an OMNIS IC Autosampler COOL for full automation; alternatively, it can be placed on a baseplate, for example, in case of a double tower solution.

The OMNIS IC S COND/MSM/PP/CH can be used for applications with chemical suppression. At any time, OMNIS Extension Modules can be added to upgrade the OMNIS IC S system, for example, to improve performance with sequential suppression or Metrohm Inline Sample Preparation options.

The OMNIS IC instrument is compatible with the 947 Professional UV/VIS Detector Vario, and the 945 Professional Detector Vario – Amperometry, expanding the options for detection.

The OMNIS IC S COND/MSM/PP/CH is an ideal choice for applications like standard anions in simple matrices such as surface or drinking water.

2.1050.0030

OMNIS IC S COND/MSM/MCS /PP/COL/DEG

The OMNIS IC S COND/MSM/MCS/PP/COL/DEG is the start instrument in the OMNIS IC world with basic sample introduction and sequential suppression. It is provided as a pre-installed, ready-to-use sales version with an OMNIS High-Pressure Pump Unit, an OMNIS Actuator Unit, an OMNIS Conductivity Detector Unit, an OMNIS MSM Unit, an OMNIS MCS Unit, an OMNIS Degasser Unit, and an OMNIS Peristaltic Pump Unit with two channels. It features a transparent door for easy access and a Reagent Organizer.

The integrated OMNIS Column Thermostat Unit 1 features a removable column tray with intelligent column chip technology and regulates the column temperature (5–80 °C, depending on ambient conditions). The column thermostat is intended for single-column use but can be upgraded to support two columns at any time. For sample transport and injection, a peristaltic pump and a 6/2-port valve are integrated.

The OMNIS IC instrument is foreseen to be placed on an autosampler. There is the free choice to add an integrated OMNIS IC Autosampler or an OMNIS IC Autosampler COOL for full automation; alternatively, it can be placed on a baseplate, for example, in case of a double tower solution.

The system is easily upgradable with OMNIS Extension Modules. This gives unlimited flexibility to meet future demands, such as the addition of Metrohm Inline Sample Preparation Techniques, OMNIS Dosing Drive Units for enhanced liquid handling options, or automatic eluent production.

The OMNIS IC instrument is compatible with the 947 Professional UV/VIS Detector Vario, and the 945 Professional Detector Vario – Amperometry, expanding the options for detection.

The OMNIS IC S COND/MSM/MCS/PP/COL/DEG can be used for applications with sequential suppression, requiring temperature-controlled column conditions such as oxyhalide analysis.

2.1051.0010

OMNIS IC M Module

The OMNIS IC M Module is a high-class single-channel instrument in the OMNIS IC world and gives the entire flexibility for complete customization. It includes an OMNIS High-Pressure Pump Unit, an OMNIS Actuator Unit with a flexible choice of the injection valve, an OMNIS MISP Unit, and an OMNIS Column Thermostat Unit 1 (one channel, upgradeable), and features a transparent door for easy access.

The OMNIS MISP Unit offers complete flexibility to add the Metrohm Inline Sample Preparation (MISP) options, which perfectly suit the application needs, such as Ultrafiltration, Metrohm intelligent Partial Loop Injection Technique (MiPT), or can be used as a holder for a trap column. The MISP techniques improve efficiency and accuracy while reducing the number of manual steps typically involved in sample preparation.

The built-in Multi Flow Monitor Unit enables smart flow monitoring for up to four channels. It detects flow trend variations, for example, induced by worn tubings or fouled filtration membranes, and can trigger software actions to minimize disturbances.

The additional 8 free units enable the creation of a fully personalized IC system. Tailored to meet the individual application needs, the OMNIS IC M Module can be equipped with various units, such as the OMNIS Conductivity Detector Unit, the OMNIS MSM Unit, the OMNIS MCS Unit, the OMNIS Degasser Unit, the OMNIS Peristaltic Pump Unit, or even with automatic eluent production, low-pressure gradient, or dual-column use.

Blind Cover Units are standard not provided and need to be added additionally.

A baseplate or autosampler is required, along with a Reagent Organizer or Reagent Organizer Liquid Control. For full automation, there is the free choice to add an integrated OMNIS IC Autosampler or an OMNIS IC Autosampler COOL.

At any time, the OMNIS IC M Module can be upgraded with freely configurable OMNIS Extension Modules, to further improve the performance.

The OMNIS IC instrument is compatible with the 947 Professional UV/VIS Detector Vario, and the 945 Professional Detector Vario – Amperometry, expanding the options for detection.

Reach out to your local IC specialist to configure your own fully customized ion chromatograph tailored to your specific application needs.

2.1051.0020

OMNIS IC M COND/MSM/MCS /PP/DEG/DD/ROLC

The OMNIS IC M COND/MSM/MCS/PP/DEG/ DD/ROLC is the high-class single channel instrument in the OMNIS IC world. It is provided as a pre-installed, ready-to-use sales version with an OMNIS High-Pressure Pump Unit, an OMNIS Actuator Unit, an OMNIS Conductivity Detector Unit, an OMNIS MSM Unit, an OMNIS MCS Unit, an OMNIS Degasser Unit, an OMNIS Peristaltic Pump Unit with one channel, and OMNIS Dosing Drive Unit. It features a transparent door for easy access and a Reagent Organizer Liquid Control.

The integrated OMNIS Column Thermostat Unit 1 features a removable column tray with intelligent column chip technology and regulates the column temperature (5–80 °C, depending on ambient temperature). The column thermostat is intended for single-column use, but can be upgraded to support two columns at any time. For sample transport and injection, a peristaltic pump and a 7/3-port valve are integrated.

For high-throughput applications, the OMNIS IC M COND/MSM /MCS/PP/DEG/DD/ROLC comes with an OMNIS MISP Unit for integrated sample preparation. The OMNIS MISP Unit provides complete flexibility to add Metrohm Inline Sample Preparation (MISP) options, perfectly tailored to the application needs, such as Ultrafiltration, Metrohm intelligent Partial Loop Injection Technique (MiPT), or can be used as a holder for a trap column. These MISP techniques enhance efficiency and accuracy while reducing the manual steps usually involved in sample preparation.

The built-in Multi Flow Monitor Unit enables smart flow monitoring for up to four channels. It detects flow trend variations, for example, induced by worn tubing or fouled filtration membranes, and can trigger software actions to minimize disturbances.

The included Reagent Organizer Liquid Control functions not only as a holder for liquids and eluent bottles but also has an integrated light that illuminates the instrument's interior when at least one door is open. The integrated leak and level sensors are monitored by the OMNIS software and support automatic eluent production and liquid level control.

The OMNIS IC instrument is foreseen to be placed on an autosampler. There is the free choice to add an integrated OMNIS IC Autosampler or an OMNIS IC Autosampler COOL for full automation; alternatively, it can be placed on a baseplate, for example, in case of a double tower solution.

The OMNIS IC instrument is compatible with the 947 Professional UV/VIS Detector Vario and the 945 Professional Detector Vario – Amperometry, expanding the options for detection.

The OMNIS IC M COND/MSM/MCS/PP/DEG/DD/ROLC serves as a flexible, high-throughput single-channel device. Additional upgradeability with OMNIS Extension Modules broadens its capabilities to meet future demands, such as dual-channel ion chromatography or extended liquid handling functions.

The high-class OMNIS IC M instrument is the ideal choice for qualified or sophisticated applications requiring sequential suppression and temperature-controlled column conditions, such as oxyhalide analyses or suppressed cations analyses in various matrices. Due to integrated sample preparation, even complex matrices can be handled, while manual workload is minimized and accuracy is increased.

2.1052.0010

OMNIS IC L Module

The OMNIS IC L Module is the high-class dual-channel instrument in the OMNIS IC world and gives the entire flexibility for complete customization. It is equipped with two OMNIS High-Pressure Pumps, two OMNIS Actuator Units for dual operations with the flexible choice of the injection valve, an OMNIS MISP Unit, and an OMNIS Column Thermostat Unit 2 (two channel), and features a transparent door for easy access.

The OMNIS MISP Unit offers complete flexibility to add the Metrohm Inline Sample Preparation (MISP) options, which perfectly suit the application needs, such as Ultrafiltration, Metrohm intelligent Partial Loop Injection Technique (MiPT), or can be used as a holder for a trap column. The MISP techniques improve efficiency and accuracy while reducing the number of manual steps typically involved in sample preparation.

The built-in Multi Flow Monitor Unit enables smart flow monitoring for up to four channels. It detects flow trend variations, for example, induced by worn tubings or fouled filtration membranes, and can trigger software actions to minimize disturbances.

The additional 10 free units enable the creation of a fully personalized IC system. Tailored to meet individual application needs, the OMNIS IC L Module can be equipped with various units, such as the OMNIS Conductivity Detector Unit, the OMNIS MSM Unit, the OMNIS MCS Unit, the OMNIS Degasser Unit, the OMNIS Peristaltic Pump Unit, or the OMNIS Dosing Drive Unit.

Blind Cover Units are standard not provided and need to be added additionally.

A baseplate or autosampler is required, along with a Reagent Organizer or Reagent Organizer Liquid Control. For full automation, there is the free choice to add an integrated OMNIS IC Autosampler or an OMNIS IC Autosampler COOL.

At any time, the OMNIS IC L Module can be upgraded with freely configurable OMNIS Extension Modules, to further improve the performance.

The OMNIS IC instrument is compatible with the 947 Professional UV/VIS Detector Vario, and the 945 Professional Detector Vario – Amperometry, expanding the options for detection.

Reach out to your local IC specialist to configure your own fully customized ion chromatograph tailored to your specific application needs.

2.1052.0020

OMNIS IC L 2COND/MSM /MCS/PP/DEG/DD/ROLC

The OMNIS IC L 2COND/MSM/MCS/PP/DEG/ DD/ROLC is the high-class dual-channel instrument in the OMNIS IC world. It is provided as a pre-installed, ready-to-use sales version with two OMNIS Conductivity Detector Units, an OMNIS MSM Unit, an OMNIS MCS Unit, an OMNIS Degasser Unit, an OMNIS Peristaltic Pump Unit with one channel, and an OMNIS Dosing Drive Unit. It features a transparent door for easy access and a Reagent Organizer Liquid Control.

The integrated OMNIS Column Thermostat Unit 2 features a removable column tray with intelligent column chip technology and regulates the column temperature (5–80 °C, depending on ambient conditions). For sample transport and injection, a peristaltic pump and a 7/3-port valve are integrated.

For high-throughput applications, the OMNIS IC L 2COND/MSM /MCS/PP/DEG/ DD/ROLC comes with an OMNIS MISP Unit for integrated sample preparation. The OMNIS MISP Unit provides complete flexibility to add Metrohm Inline Sample Preparation (MISP) options, perfectly tailored to the application needs, such as Ultrafiltration, Metrohm intelligent Loop Technique (MiPT), or can be used as a holder for a trap column. These MISP techniques enhance efficiency and accuracy while reducing the manual steps usually involved in sample preparation.

The built-in Multi Flow Monitor Unit enables smart flow monitoring for up to four channels. It detects flow trend variations, for example, induced by worn tubings or fouled filtration membranes, and can trigger software actions to minimize disturbances.

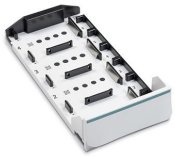
The included Reagent Organizer Liquid Control functions not only as a holder for liquids and eluent bottles but also has an integrated light that illuminates the instrument's interior when at least one door is open. The integrated leak and level sensors are monitored by the OMNIS software and support automatic eluent production and liquid level control.

The OMNIS IC instrument is foreseen to be placed on an autosampler. There is the free choice to add an integrated OMNIS IC Autosampler or an OMNIS IC Autosampler COOL for full automation; alternatively, it can be placed on a baseplate, for example, in case of a double tower solution.

The OMNIS IC instrument is compatible with the 947 Professional UV/VIS Detector Vario and the 945 Professional Detector Vario – Amperometry, expanding the options for detection.

Thanks to its upgradability, it serves as a flexible, high-throughput dual-channel device. Additional upgradeability with OMNIS Extension Modules opens the horizon to meet future demands, such as an additional channel or extended liquid handling functions.
The high-class OMNIS IC L instrument is the perfect choice for high-throughput dual-channel applications, such as parallel analysis of anions and cations. Due to the integrated sample preparation, even complex matrices can be handled, while the manual workload is minimized and accuracy is increased.

6.02040.010
OMNIS IC AS COOL Tray



Cooled tray for accommodating sample racks in the OMNIS IC Autosampler. The tray maintains samples at a controlled low temperature, supporting the analysis of temperature-sensitive compounds. Rack positioning and handling correspond to the standard AS Tray, ensuring reliable and precise operation during automated sampling. The tray can be seamlessly integrated into the autosampler system and can be easily removed to allow convenient loading and preparation of sample racks directly on the laboratory bench before placing in the autosampler.

6.02041.500
OMNIS sample rack 24 x 10 mL

Sample rack for holding 24 x 10 mL vials in the OMNIS IC Autosampler. Rack geometry is matched to vial dimensions to ensure precise positioning and stable handling during automated sampling. The racks can be seamlessly mounted on the AS /ASCOOL Tray.

6.02041.510
OMNIS sample rack 40 x 5 mL

Sample rack for holding 40 x 5 mL vials in the OMNIS IC Autosampler. Rack geometry is matched to vial dimensions to ensure precise positioning and stable handling during automated sampling. The racks can be seamlessly mounted on the AS /ASCOOL Tray.

6.02041.520

OMNIS sample rack 48 x 11 mm

Sample rack for holding 48 x 11 mm OD vials in the OMNIS IC Autosampler. Rack geometry is matched to vial dimensions to ensure precise positioning and stable handling during automated sampling. The racks can be seamlessly mounted on the AS /ASCOOL Tray.

6.02041.530

OMNIS sample rack 6 x 50 mL

Sample rack for holding 6 x 50 mL bottles in the OMNIS IC Autosampler. Rack geometry is matched to vial dimensions to ensure precise positioning and stable handling during automated sampling. The racks can be seamlessly mounted on the AS /ASCOOL Tray.

6.02041.540

OMNIS sample rack 12 x 22 mm

Sample rack for holding 12 x 22mm OD vials in the OMNIS IC Autosampler. Rack geometry is matched to vial dimensions to ensure precise positioning and stable handling during automated sampling. The racks can be seamlessly mounted on the AS /ASCOOL Tray.

6.02041.550
OMNIS sample rack, 2 x 200 mL

Sample rack for holding 2 x 200 mL bottles in the OMNIS IC Autosampler. Rack geometry is matched to vial dimensions to ensure precise positioning and stable handling during automated sampling. The racks can be seamlessly mounted on the AS /ASCOOL Tray

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6.02841.120
Rinse station

Rinse station for needle rinsing for the OMNIS IC Autosampler and OMNIS IC Autosampler COOL.

6.05000.140
Installation kit: AS/AS COOL

6.05000.160
Installation kit: AS COOL cable

6.05331.010
OMNIS IC equip.: D-INJ, DD

Accessory set for Full Loop Injection in OMNIS IC: With this technique, the sample loop can be filled with an OMNIS Dosing Drive Unit in combination with the OMNIS cylinder unit.

Prerequisites:

OMNIS IC S/M/L with OMNIS IC AS/ASCOOL, including:
– available OMNIS Dosing Drive Unit
– available OMNIS MISP Unit

6.05331.020
OMNIS IC equip.: D-INJ, PP

Accessory set for Full Loop Injection in OMNIS IC: With this technique, the sample loop can be filled using an OMNIS Peristaltic Pump Unit.

Prerequisites:

OMNIS IC S/M/L with OMNIS IC AS/ASCOOL, including:
– available OMNIS Peristaltic Pump Unit

6.05331.030
OMNIS IC equip.: UF, PP/DD

Accessory set for Ultrafiltration in OMNIS IC: Inline ultrafiltration allows the sample to be separated from contained particles. The main component of the Metrohm Inline Ultrafiltration system is the ultrafiltration cell. The ultrafiltration cell is suitable for sample filtration with high demands on filtration efficiency and sample throughput. This equipment is for the setup with a combination of the Peristaltic Pump Unit and the Dosing Drive Unit.

Prerequisites:

OMNIS IC S/M/L with OMNIS IC AS/ASCOOL, including:
– available OMNIS Dosing Drive Unit
– available OMNIS Peristaltic Pump Unit channel
– available OMNIS MISP Unit
– AS/ASCOOL equipped with a switching valve 3/2, UNF

6.05331.040

OMNIS IC equip.: MIDT

Accessory set for dilution in OMNIS IC: This technique allows samples with excessively high ion concentrations or highly concentrated sample matrices to be diluted. The required sample volume is precisely aspirated by the OMNIS Dosing Drive Unit.
The sample and the dilution solution are mixed in the dilution station, ensuring the sample is diluted and completely homogenized. Additionally, with the Inline Dilution technique, calibration using a single standard solution is possible.

Specifications:

– Maximum dilution factor: 2000
– Accuracy: <1.5% up to DF 100, <2.5% up to DF 1000
– Reproducibility (n=9): <1% up to DF 1000
– Carry over: < 0.003%

Prerequisites:

OMNIS IC S/M/L, including:
– available OMNIS Dosing Drive Unit
– available OMNIS MISP Unit

AS/ASCOOL equipped with:
– dilution station and
– switching valve 3/2, M6

6.05331.050

OMNIS IC equip.: UF, PP/PP

Accessory set for Ultrafiltration in OMNIS IC: Inline ultrafiltration allows the sample to be separated from contained particles. The main component of the Metrohm inline ultrafiltration system is the ultrafiltration cell. The ultrafiltration cell is suitable for sample filtration with high demands on filtration efficiency and sample throughput. This equipment is for the setup with a Peristaltic Pump Unit only.

Prerequisites:

OMNIS IC S/M/L with OMNIS IC AS/ASCOOL, including:
– 2 available OMNIS Peristaltic Pump Unit channels
– available OMNIS MISP Unit

6.05331.060
OMNIS IC equip.: MIDT-UF, PP /DD

Accessory set for the combination of dilution with Ultrafiltration in OMNIS IC: This technique allows samples with excessively high ion concentrations or highly concentrated sample matrices to be diluted. The required sample volume is precisely aspirated by the OMNIS Dosing Drive Unit.
Additionally, inline ultrafiltration allows the sample to be separated from the particles it contains. This combined technique allows calibration with only one standard solution.
Prerequisites:
OMNIS IC S/M/L with OMNIS IC AS/ASCOOL, including:
– available OMNIS Dosing Drive Unit
– available OMNIS Peristaltic Pump Unit channel
– available OMNIS MISP Unit
– AS/ASCOOL equipped with dilution station and switching valve 3/2, M6

6.05331.070
OMNIS IC equip.: MiPT

Accessory set for Partial Loop Injection in OMNIS IC: With this technique, the 250 µL sample loop can be filled with a defined volume. The OMNIS Dosing Drive Unit, with the attached OMNIS cylinder unit, performs precise dosing steps. The intelligent partial-loop injection technique allows calibration using a single standard solution because the injection volume can be freely selected. The same applies to sample injection: a small injection volume can be chosen for a highly concentrated sample, or a larger one for low-concentration samples.
Prerequisites:
OMNIS IC S/M/L with OMNIS IC AS/ASCOOL, including:
– available OMNIS Dosing Drive Unit
– available OMNIS MISP Unit

6.05331.080

OMNIS IC equip.: UF-MiPT, PP /DD

Accessory set for the combination of Partial Loop Injection Technique with Ultrafiltration in OMNIS IC: The inline ultrafiltration allows the sample to be separated from contained particles. Additionally, with the partial loop injection, the 250 µL sample loop can be filled with a defined volume of the filtered sample. The OMNIS Dosing Drive Unit, with the attached OMNIS cylinder unit, performs precise dosing steps. This combined technique allows calibration using a single standard solution.

Prerequisites:

OMNIS IC S/M/L with OMNIS IC AS/ASCOOL, including:

– available OMNIS Dosing Drive Unit
– available OMNIS Peristaltic Pump Unit channel
– available OMNIS MISP Unit
– AS/ASCOOL equipped with a switching valve 3/2, UNF

6.05332.120

OMNIS IC equip.: Two tower setup

Accessory set for an OMNIS IC without OMNIS IC AS or ASCOOL: If the OMNIS IC system is to be set up in 2 stacks (two-tower setup), the OMNIS IC must be equipped with a base plate, and the AS/ASCOOL with a reagent organizer.

Prerequisites:

OMNIS IC S/M/L

6.05332.130

OMNIS IC equip.: AutoSwitch

Accessory set for AutoSwitch in OMNIS IC: Many samples require analysis of multiple analytes, such as anions and cations. The OMNIS IC M can be easily upgraded to perform AutoSwitch analysis. This enables automated serial execution, for example, of anion and cation analyses. Automatic switching between different analyses is possible with an additional injector and two 3 /2-way valves.

Prerequisites:

OMNIS IC M, including:

– available OMNIS Actuator Unit equipped with 6/2 or 7/3 injector (minimum 1 x 7/3 injector is required)
– available position on the OMNIS Column Thermostat Unit
– AS/ASCOOL equipped with 1x switching valve 3/2, M6 and 1x switching valve 3/2, UNF

6.05801.110
Switching valve 3/2, UNF kit

The switching valve 3/2 is a valve with 3 connectors and 2 switching positions. The switching valve 3/2 is available with either a valve attachment with UNF 10/32 connectors or one with M6 connectors.
It can be used for the following applications, for example:
– Anion/cation system: Control as to the channel into which the sample is injected.
– Rinsing with 2 different solutions: Control as to which rinsing solution is used.

A maximum of 3 switching valves 3/2 can be installed per sample changer.
Note: This upgrade must be installed by an authorized Metrohm service engineer.

6.05801.120
Switching valve 3/2, M6 kit

The switching valve 3/2 is a valve with 3 connectors and 2 switching positions. The switching valve 3/2 is available with either a valve attachment with UNF 10/32 connectors or one with M6 connectors.
It can be used for the following applications, for example:
– Anion/cation system: Control as to the channel into which the sample is injected.
– Rinsing with 2 different solutions: Control as to which rinsing solution is used.

A maximum of 3 switching valves 3/2 can be installed per sample changer.
Note: This upgrade must be installed by an authorized Metrohm service engineer.

6.05801.130
Barcode scanner kit

The individual sample racks and the AS tray are each identified with a barcode. The barcode reader scans the barcodes. This way, the sample changer detects the number, the position, and the type of the sample racks currently present. In addition, the barcode reader detects empty rack positions.
Note: This upgrade must be installed by an authorized Metrohm service engineer.

6.05801.250
Dilution station kit

The dilution station is used for automatic dilution of samples. A defined amount of the concentrated sample is precisely measured by an OMNIS Dosing Drive Unit. The concentrated sample is conveyed to the dilution vessel with the required volume of the dilution solution. The built-in magnetic stirrer mixes the concentrated sample and the dilution solution evenly. The diluted sample is then transferred through the sample outlet into the sample path.
Metrohm recommends using the following stirring bar:
– Stirring bar / 8 x 3 mm (6.1903.000)

The dilution station is equipped with an overflow. The liquid in the overflow is collected in the drip collector, runs from there to the leak sensor, and is then fed into the drainage tubing system.
A maximum of 1 dilution station can be installed per sample changer. If contaminated, the dilution vessel can be cleaned or replaced.
Note: This upgrade must be installed by an authorized Metrohm service engineer.

6.05801.270
Drain kit, AS COOL

Drain kit to replace the drain tubing and connections in the OMNIS IC Autosampler COOL.
Prerequisites:
2.1054.0020 OMNIS IC Autosampler Module COOL