



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

2.1050.0030

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.

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 2.1050.0030

Order Number	Description	Quantity
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1.1050.0030



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

1 PCS

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.

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6.02744.010

Flangeless fitting M6, 1/8", 2 pcs

1 PCS

Flangeless fitting for 1/8" tubing.
Quantity: 2 pcs



6.02837.030

CO2 Absorber (Tube)

1 PCS

CO2 Absorber (Tube) with a Luer adapter; protects reagents and eluents from particles and ensures consistent retention times for CO₂-sensitive eluents.



6.02837.040

Filter tube

1 PCS

Filter tube with Luer adapter, protects eluents and reagents from particles.



6.02837.110

CO2 Absorber (Cartridge)

1 PCS

Absorber cartridge for removing CO₂ from the air drawn in by the OMNIS MCS unit ensures that the baseline remains stable and consistent.



6.05000.000

Accessory kit: OMNIS IC

1 PCS



OMNIS IC accessory set required for installation, daily work, and maintenance.

The set contains the most necessary tools and accessories for simple tasks related to the OMNIS IC device.

6.05000.010

Accessory kit: Bottle OMNIS IC, PP, 2 L

2 PCS

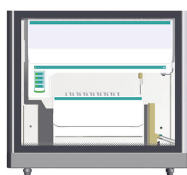


OMNIS IC accessory set to install the reagent bottle onto the Reagent Organizer / Reagent Organizer Liquid Control.

Optional accessories

2.1054.0010

OMNIS IC Autosampler Module



The OMNIS IC Autosampler 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. As the first fully integrated autosampler of the new OMNIS IC generation, it is installed directly below the OMNIS IC as standard. It is not a stand-alone device, but an integral part of the OMNIS IC System, which is conveniently controlled via the OMNIS Software.

Key features:

- Compact footprint: Can be placed directly under the OMNIS IC
- High sample throughput: 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

2.1054.0020

OMNIS IC Autosampler Module COOL



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

2.1055.0020

OMNIS Extension Module



The OMNIS Extension Module serves as an extension module for an OMNIS IC and is always operated together with a main module. An OMNIS IC can thus be expanded to a maximum of 5 levels. An OMNIS Extension Module can accommodate up to 5 functional units, such as the OMNIS Degasser Unit, OMNIS High-Pressure Pump Unit or OMNIS Conductivity Detector Unit. Blind Cover Units are standard not provided with the extension module and need to be added additionally.

2.1056.0310

OMNIS Dosing Drive Unit



The OMNIS Dosing Drive Unit functions as a dosing drive for attachable cylinder units used for the precise aspiration and dosing of liquid volumes.

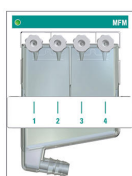
The OMNIS Dosing Drive Unit is compatible with various cylinder units (2 to 50 mL). Thanks to the new design, a higher resolution and accuracy can be achieved during dosing.

Specifications:

- Resolution: 250,000 steps per cylinder volume
- Dosing times/filling times: 10 seconds

2.1056.0910

OMNIS Multi Flow Monitor Unit



The OMNIS Multi Flow Monitor Unit is used for flow monitoring in the OMNIS IC System. It can detect trend changes in the behavior of the flow. If corresponding measures have been defined in the OMNIS Software, then the OMNIS IC System will execute them.

Constant monitoring of the flow rate helps to ensure the smooth operation of the entire OMNIS IC System. Changes in the flow rate indicate a functional disruption, caused for example by worn pump tubings or a dirty filtration membrane.

The liquids drained by the OMNIS IC System flow through up to 4 channels into the waste collector of the OMNIS Multi Flow Monitor Unit. The flow rate of each channel can be monitored individually and independently of the other channels. If more than 4 channels are fed into the drainage system, then an additional waste collector can be installed on the reagent organizer (without flow monitoring).

Specifications:

- Flow range: 0.1 ml/min to 8 ml/min for water
- Number of measuring channels: 4

2.1056.1110

OMNIS MISP Unit



The OMNIS MISP Unit acts as a holder and pullout for the accessories of the various Metrohm inline sample preparation techniques (Metrohm Inline Sample Preparation "MISP") and liquid handling processes. The innovative pull-out design makes it easy to insert or change accessories. As a result, they are stored in an orderly and space-saving way and integrated in the flow path. With the corresponding accessories, the following Metrohm inline sample preparation techniques can be carried out with the OMNIS MISP Unit:

- Metrohm Inline Ultrafiltration (UF)
- Metrohm Inline Dilution (MIDT)
- Metrohm inline dilution in combination with Metrohm inline ultrafiltration (MIDT-UF)
- Metrohm Inline Dialysis
- Metrohm intelligent Partial Loop injection Technique (MiPT)
- Metrohm inline ultrafiltration and Metrohm intelligent Partial Loop injection Technique in combination (UF-MiPT)
- Metrohm intelligent Preconcentration Technique (MiPCT)
- Metrohm intelligent Preconcentration Technique with matrix elimination (MiPCT-ME)
- Metrohm intelligent Pick-up injection Technique (MiPuT)
- Metrohm Inline Neutralization and Metrohm Inline Cation Removal
- Metrohm intelligent Preconcentration Technique with inline neutralization (MiPCT-NE)

Ultrafiltration or dialysis cell, transfer tubings or transfer capillaries can be used in the OMNIS MISP Unit. All trap columns available from Metrohm can be mounted with the optional MISP holder. Various connectors can be fastened to the optional MISP base plate and integrated into the flow path.

2.945.0020

945 Professional Detector Vario – Amperometry



Intelligent stand-alone detector equipped with the IC Amperometric Detector. Outstanding selectivity due to the four measuring modes: DC, PAD, flexIPAD, CV. The excellent signal /noise ratio and the very fast start-up guarantee the highest in measurement precision. For use with intelligent IC instruments or as independent detector.

2.947.0020

**947 Professional UV/VIS
Detector Vario MW**



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.

6.05000.000

Accessory kit: OMNIS IC



OMNIS IC accessory set required for installation, daily work, and maintenance.

The set contains the most necessary tools and accessories for simple tasks related to the OMNIS IC device.

6.05000.010

**Accessory kit: Bottle OMNIS
IC, PP, 2 L**



OMNIS IC accessory set to install the reagent bottle onto the Reagent Organizer / Reagent Organizer Liquid Control.

6.05000.110

Installation kit: OMNIS IC S



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

6.05331.090

OMNIS IC equip.: D-INJ, manually



Accessory set for manual Full Loop Injection in OMNIS IC: With this technique, the sample loop can be filled manually.

Prerequisites:

OMNIS IC S/M/L

6.05332.010

OMNIS IC equip.: Container 10 L, drain



Accessory set for connecting drain to 10 L container.

Prerequisites:

OMNIS IC S/M/L

6.05332.020

OMNIS IC equip.: HPP piston seal wash, DD



Accessory set for HPP piston seal wash: The HPP piston seal wash for the OMNIS IC HPP is standard foreseen with a free port on a dosing system on the OMNIS Cylinder Unit. After each sample analysis, the piston is rinsed with a small portion of UPW.

When no free Cylinder Unit channel is available, the UPW can alternatively be transferred via a peristaltic pump channel equipped with 601826010 peristaltic pump tubing.

Prerequisites:

OMNIS IC S/M/L, including:

- available OMNIS Cylinder Unit port (with UPW as working medium) or
- available OMNIS Peristaltic Pump Unit channel

6.05332.060

OMNIS IC equip.: Base plate



Accessory set for an OMNIS IC without OMNIS IC AS or ASCOOL: With this equipment, the OMNIS IC (S/M/L) can be provided as a standalone solution without automation below the IC. This equipment is also required when the OMNIS IC is used in combination with an 858 Professional Sample Processor or a 919 IC Autosampler plus.

Prerequisites:

OMNIS IC S/M/L without AS/ASCOOL automation

6.05801.280

Drain kit, S



Drain kit to replace the drain tubing and connections in the OMNIS IC S.

Prerequisites:

2.1050.00x0 OMNIS IC S