OMNIS IC equip.: UF, PP/DD

6.05331.030

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

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 6.05331.030

Order Number	Description	Quantity
6.02744.010	**Flangeless fitting M6, 1/8", 2 pcs** Flangeless fitting for 1/8'' tubing. Quantity: 2 pcs	2 PCS
6.02837.030	**CO2 Absorber (Tube)** CO2 Absorber (Tube) with a Luer adapter; protects reagents and eluents from particles and ensures consistent retention times for CO2-sensitive eluents.	1 PCS
6.01815.000	**Spiral-band, 3-15 mm, 0.5 m** Spiral band for holding together different tubings or cables.	1 PCS

6.05000.010

Accessory kit: Bottle OMNIS IC, PP, 2 L 1 PCS

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

6.2744.070

Pressure screw short 2 PCS

Short version. With UNF 10/32 connection. 5 pieces. For the connection of PEEK capillaries

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6.2744.040

2 x UNF 10/32 coupling 1 PCS

For connecting 1/16 in. capillaries. For IC instruments

6.2621.030

Hexagon key 4 mm 1 PCS

6.1831.060

PEEK capillary 0.5 mm i.d., 1 m 1 PCS

For inline dialysis and for Sample Changers. For IC Dialysis Unit, IC Sample Processor, Compact IC Autosampler, IC Filtration Sample Processor, IC Dialysis Sample Processor, IC Liquid Handling Dialysis Unit

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6.2744.034

Coupling olive/UNF 10/32, 2x 1 PCS

Connection between pressure screw and pump tubing. 2 pieces. For IC instruments with peristaltic pump.

6.2744.200

Adapter UNF 10/32 outer / M6 inner 1 PCS

Connecting 1/16 in. PEEK capillaries and transfer tubing (M6)

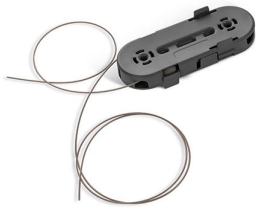
6.01506.120

Cylinder unit OMNIS 2 mL, UNF 10/32 1 PCS

Intelligent cylinder unit OMNIS 2 mL with four ports (2x M6 and 2x UNF 10/32) for use with the OMNIS Dosing Drive Unit within the OMNIS IC.

6.01562.100

Transfer capillary 2 mL, PEEK 1 PCS



Transfer capillary, 2 ml, PEEK for installation in the MISP unit for the transfer or short-term storage of liquids. Prevents contamination of the dosing unit.
PEEK tubing is chemically inert and serves as an alternative to PTFE (FEP/PFA) tubing in order to prevent possible fluoride contamination. It has a larger inner diameter than capillaries, which means that larger liquid volumes can be conveyed faster.
Typical application:
Partial Loop injection Technique (MiPT)
Preconcentration technique (MiPCT)

6.01805.400

FEP tubing M6, 1/8" x 1.59 mm, 3 m 1 PCS

6.01826.020

Pump tubing, ID 1.0 mm, white - white 1 PCS

Pump tubing with an inner diameter of 1.0 mm for use with the Peristaltic Pump Unit in the OMNIS IC system. The tubing enables controlled and reliable transport of liquids for examples for sample solutions. It is designed for consistent flow performance during operation. Its material properties support stable functioning under routine analytical conditions.

6.01831.220

PEEK capillary FILTRATE OUT – INJ, 400/0.5 mm 1 PCS

Pre-cut PEEK capillary with identification label for OMNIS IC

6.01831.210

PEEK capillary PP – SAMPLE IN, 400/0.5 mm 1 PCS

Pre-cut PEEK capillary with identification label for OMNIS IC

6.02729.110

Ultrafiltration cell 2 1 PCS

For the Inline ultrafiltration of samples together with the 858 Professional Sample Processor / 919 IC Autosampler plus. As an alternative to the time-consuming manual filtration with a syringe filter.

6.2714.020

Filtration membrane reg. cellulose, 0.2 µm, 50 pieces 1 PCS

Nominal pore size: 0.2 µm. Set of 50 pieces. For inline filtration.

6.1831.180 **PEEK Capillary 0.5 mm i.d., 3 m** 2 PCS

6.2744.000 **Pressure screw PVDF** 1 PCS

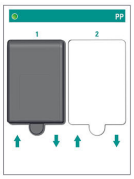
With UNF 10/32 connection. For IC instruments, inline dialysis (connection of PTFE capillaries)

6.2831.010 **Plastic tweezers** 1 PCS

For dialysis and filtration membranes

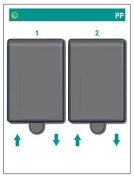
Optional accessories

2.1056.1010
OMNIS Peristaltic Pump Unit 1-Channel



The OMNIS Peristaltic Pump Unit is used as the peristaltic pump in the OMNIS IC System to convey the samples and auxiliary solutions.
It works according to the displacement principle, i.e., liquids are forced through the pump tubing by external mechanical deformation of the pump tubing. The pump tubing is deformed by pressing it against a rotating roller head.
The 1-channel peristaltic pump can be expanded into a 2-channel peristaltic pump, after which the 2 channels can be operated at different rotational speeds.
Specifications:
– Number of channels: 1 (can be expanded to 2)
– Rotational speed increment: 2.5 rpm
– Minimum rotational speed: 2.5 rpm
– Maximum rotational speed: 250 rpm
– Rotation direction: Clockwise

2.1056.1020
OMNIS Peristaltic Pump Unit 2-Channel



The OMNIS Peristaltic Pump Unit is used as the peristaltic pump in the OMNIS IC System to convey the samples and auxiliary solutions.
It works according to the displacement principle, i.e., liquids are forced through the pump tubing by external mechanical deformation of the pump tubing. The pump tubing is deformed by pressing it against a rotating roller head.
The two channels can be operated independently of each other at different speeds, increasing flexibility for a wide range of applications.
Specifications:
– Number of channels: 2
– Rotational speed increment: 2.5 rpm
– Minimum rotational speed: 2.5 rpm
– Maximum rotational speed: 250 rpm
– Rotation direction: Clockwise

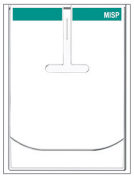
2.1056.0310

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

2.1056.1110

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.

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.