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

6.05331.080

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

Phạm vi giao hàng 6.05331.080

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

---

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

---

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.

6.1825.290

PEEK sample loop 250 µL 1 PCS

Sample loop for «Metrohm intelligent Partial loop Technique» (MiPT) and for PILS (particle into liquid sampler). With 2 Peek pressure screws.

6.2744.200

Adapter UNF 10/32 outer / M6 inner 1 PCS

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

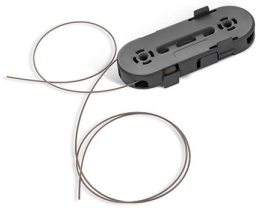
6.01506.120

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)

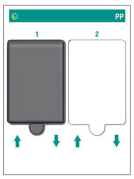
6.2831.010

Plastic tweezers 1 PCS

For dialysis and filtration membranes

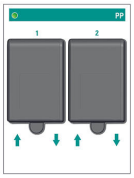
Phụ kiện tùy chọn

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

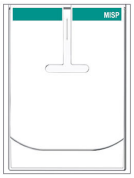
2.1056.0310

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.

6.05801.250
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.

6.05801.110
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.