OMNIS IC equip.: MIDT

6.05331.040

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

Phạm vi giao hàng 6.05331.040

Order Number	Description	Quantity
6.02744.010	**Flangeless fitting M6, 1/8", 2 pcs** Flangeless fitting for 1/8'' tubing. Quantity: 2 pcs	5 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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6.2744.320

PEEK coupling M6 / UNF 10/32 2 PCS

Connecting transfer tubing (M6) with capillaries (UNF 10 /32).

6.1831.050

PEEK capillary 0.5 mm i.d., 40 cm 1 PCS

For inline dialysis and for sample changers. For IC Dialysis Unit, IC Sample Processor, Compact IC Autosampler, IC Dialysis Sample Processor, IC Liquid Handling Dialysis Unit, Compact VA Autosampler

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6.2744.200

Adapter UNF 10/32 outer / M6 inner 2 PCS

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

6.01506.150

Cylinder unit OMNIS 5 mL, UNF 10/32 1 PCS

Intelligent cylinder unit OMNIS 5 mL with four ports (2x M6 and 2x UNF 10/32) for use with the OMNIS Dosing Drive Unit within the OMNIS IC.

6.01532.140

Transfer tubing LQH, FEP, OD 1/8" 1 PCS

Transfer tubing LQH, FEP, OD 1/8&#34 for installation in the MISP unit for the transfer or short-term storage of liquids. Prevents contamination of the dosing unit.
FEP tubing is chemically inert and flexible. It has a larger inner diameter than capillaries, which means that larger liquid volumes can be conveyed faster.
Typical application:
Dilution technique (MIDT)

6.01532.130

Transfer tubing 5 mL, FEP, OD 1/8" 1 PCS

Transfer tubing 5 mL, OD 1/8" for installation in the MISP unit for the transfer or short-term storage of liquids. Prevents contamination of the dosing unit.
FEP tubing is chemically inert and flexible. It has a larger inner diameter than capillaries, which means that larger liquid volumes can be conveyed faster.
Typical application:
Preconcentration technique (MiPCT and MiPCT-ME)
Dilution technique (MIDT)

6.01805.400 **FEP tubing M6, 1/8" x 1.59 mm, 3 m** 2 PCS

6.01831.230 **PEEK capillary, 1000/0.75 mm** 1 PCS

Pre-cut PEEK capillary for OMNIS IC

6.1831.180 **PEEK Capillary 0.5 mm i.d., 3 m** 1 PCS

6.1903.000 **Stirring bar / 8 x 3 mm** 1 PCS

Stirring bar with magnetic core, PTFE covering, 8 mm long with 3 mm diameter.

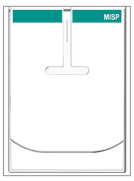
Phụ kiện tùy chọn

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.

6.05801.120
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.