



OMNIS MISP Unit

2.1056.1110

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)

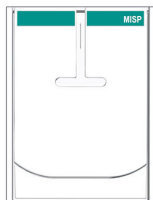
Ultrafiltration or dialysis cell, transfer tubings or transfer capillaries can be used in the OMNIS MISP Unit. All trap columns available from Metrohm can be mounted with the optional MISP holder. Various connectors can be fastened to the optional MISP base plate and integrated into the flow path.

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 2.1056.1110

Order Number	Description	Quantity
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1.1056.1110



OMNIS MISP Unit

1 PCS

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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.

Optional accessories

6.01532.110

Transfer tubing 10 mL, FEP, M6



Transfer tubing 10 mL, FEP, M6 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)

Dilution technique (MIDT)

6.01532.120

Transfer tubing 10 mL, PEEK, OD 1/8"



Transfer tubing 10 mL, PEEK, OD 1/8" 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:

Preconcentration technique (MiPCT)

6.01532.130

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



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)

6.01532.140

Transfer tubing LQH, FEP, OD 1/8"



Transfer tubing LQH, FEP, 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:

Dilution technique (MIDT)

6.01562.100

Transfer capillary 2 mL, PEEK



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)

6.02006.100

MISP base plate



Base plate for fastening T connectors in the OMNIS MISP Unit.

6.02006.110

MISP holder, trap column



Holder for fastening trap columns in the OMNIS MISP Unit.

6.02729.110

Ultrafiltration cell 2



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.

6.05331.010

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

6.05331.030

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