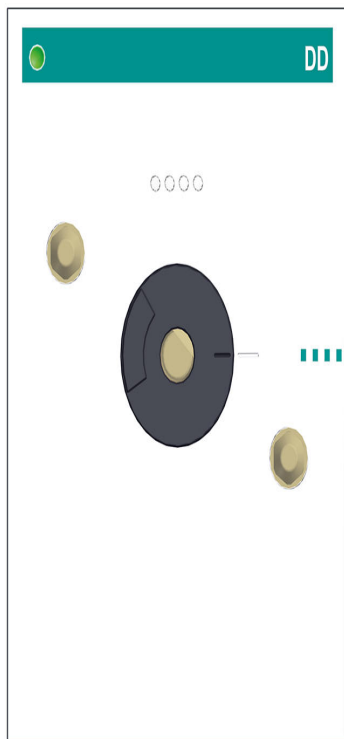




OMNIS Dosing Drive Unit

2.1056.0310

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.

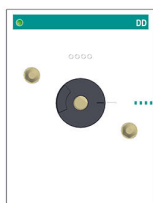
Specifications:

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

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 2.1056.0310

Order Number	Description	Quantity
1.1056.0310	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.	1 PCS
6.1546.030	Piston tongs For pistons for 807 Dosing Units or cylinder units OMNIS.	1 PCS



Optional accessories

6.01503.220

**Cylinder unit OMNIS 20 mL
without accessories**

Intelligent cylinder unit 20 mL for one OMNIS Titrator, Titration Module or Dosing Module. Without dosing tubing and antidiffusion tip.



6.01503.250

**Cylinder unit OMNIS 50 mL
without accessories**

Intelligent cylinder unit OMNIS 50 mL with four M6 ports for OMNIS Titrator, Titration Module, Dosing Module or OMNIS Dosing Drive Unit.



6.01506.120

**Cylinder unit OMNIS 2 mL,
UNF 10/32**

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.



6.01506.150

**Cylinder unit OMNIS 5 mL,
UNF 10/32**

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.



6.01506.210

**Cylinder unit OMNIS 10 mL,
UNF 10/32**

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



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

6.05331.060

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

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

6.05332.050

OMNIS IC equip.: DD Reg.



Accessory set for MSM regeneration with Dosing Drive Unit with STREAM setup.

Prerequisites:

OMNIS IC S/M/L, including:

- available OMNIS Dosing Drive Unit

6.05332.070

OMNIS IC equip.: PCR, DD



Accessory set for PCR in OMNIS IC: PCR-UV/VIS detection is used to photometrically detect analytes through a chemical reaction following chromatographic separation. In the PCR cartridge, the eluent is mixed with a reagent behind the separation column, thereby enabling a specific reaction with the analyte. The eluent-reagent mixture, along with the reacted analytes, is then transported to the UV detector. This set is specific for the PCR application in combination with the dosing drive unit, including an additional bottle for rinsing purposes.

Prerequisites:

OMNIS IC S/M/L, including:

- available OMNIS Dosing Drive Unit
- available OMNIS Column Thermostat Unit

6.05332.090

OMNIS IC equip.: Dose-in Gradient



Accessory set for Dose-in Gradient in OMNIS IC: A gradient is created by mixing different eluents in a mixing ratio that varies over the analysis duration.

An OMNIS Cylinder Unit doses a concentrated or diluted eluent into the main eluent stream in a defined ratio. This changes the overall concentration of the mobile phase. The result is optimal separation of all ions within an acceptable analysis time.

Prerequisites:

OMNIS IC S/M/L, including:

- available OMNIS Dosing Drive Unit

6.05332.100

OMNIS IC equip.: DD Reg., Rinse



Accessory set for MSM regeneration with Dosing Drive Unit without STREAM setup.

Prerequisites:

OMNIS IC S/M/L, including:

- available OMNIS Dosing Drive Unit