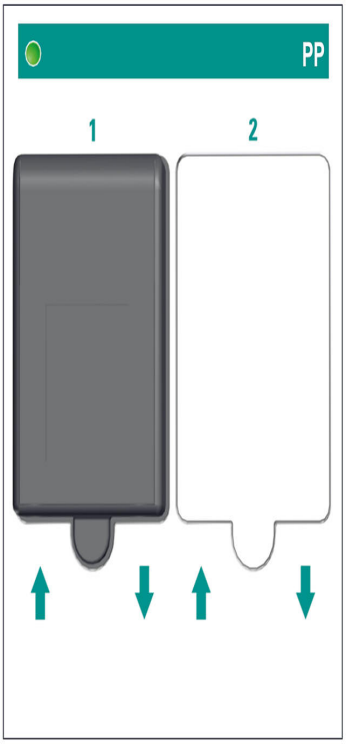


OMNIS Peristaltic Pump Unit 1-Channel

2.1056.1010

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.

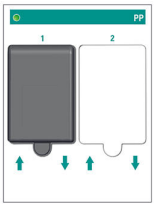
The 1-channel peristaltic pump can be expanded into a 2-channel peristaltic pump, after which the 2 channels can be operated at different rotational speeds.

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

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 2.1056.1010

Order Number	Description	Quantity
1.1056.1010 	**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.	1 PCS

Optional accessories

6.01826.010
Pump tubing, ID 0.5 mm, orange - yellow

Pump tubing with an inner diameter of 0.5 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 dialysis, suppressor regeneration, or PCR solutions. It is designed for consistent flow performance during operation. Its material properties support stable functioning under routine analytical conditions.

6.01826.020
Pump tubing, ID 1.0 mm, white - white

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.

6.05331.020
OMNIS IC equip.: D-INJ, PP

Accessory set for Full Loop Injection in OMNIS IC: With this technique, the sample loop can be filled using an OMNIS Peristaltic Pump Unit.
Prerequisites:
OMNIS IC S/M/L with OMNIS IC AS/ASCOOL, including:
– available OMNIS Peristaltic Pump 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

6.05331.050

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

6.05331.080
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

6.05332.040
OMNIS IC equip.: PP Reg.

Accessory set for MSM regeneration with Peristaltic Pump Unit.
Prerequisites:
OMNIS IC S/M/L, including:
– available OMNIS Peristaltic Pump Unit channel

6.05332.110

OMNIS IC equip.: PCR, PP

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 specifically reacting 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 peristaltic pump unit.

Prerequisites:

OMNIS IC S/M/L, including:

– available OMNIS Peristaltic Pump Unit channel

– available OMNIS Column Thermostat Unit

6.05801.000

Peristaltic pump channel kit

Upgrade kit to extend the OMNIS Peristaltic Pump Unit 1-Channel with an additional pump channel.

Prerequisites:

– 2.1056.0010 OMNIS Peristaltic Pump Unit 1-Channel

Info: This upgrade must be installed by an authorized Metrohm service technician.