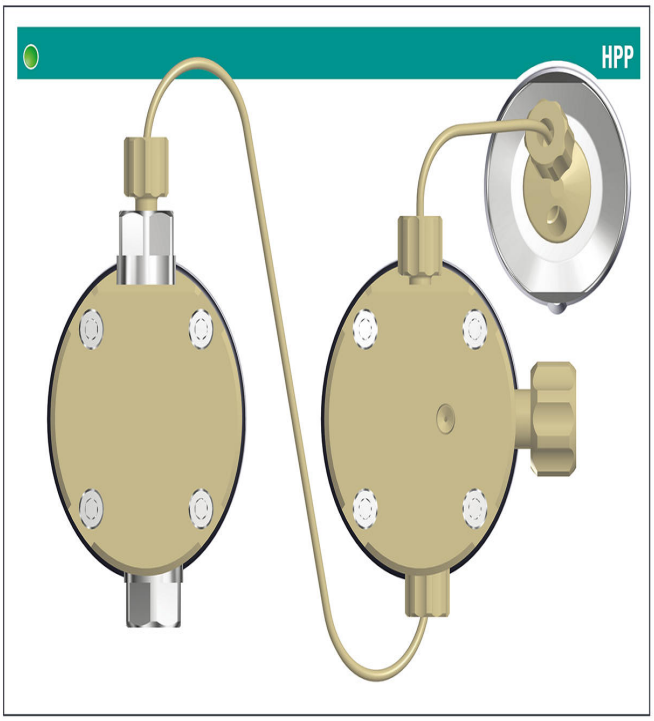


OMNIS High-Pressure Pump Unit

2.1056.0210

The OMNIS IC High-Pressure Pump Unit is an advanced, chemically resistant high-pressure pump specifically designed for ion chromatography.

It features pulsation-controlled delivery of eluents, whereby the delivery volume is automatically compensated, eliminating the need for additional pulsation dampers. The stroke is dynamically optimized according to the operating conditions, ensuring optimal performance. Two synchronized individual drives enable precise control and consistent flow rates. The piston is connected to the drive rather than the pump head, which enhances stability and simplifies maintenance. The flow path is free of metal and chemically inert, guaranteeing maximum compatibility with aggressive media. Additionally, the pump is resistant to substances across a wide pH range from 0 to 14, making it suitable for a broad spectrum of applications.

The OMNIS IC High-Pressure Pump Unit can optionally be equipped with a piston seal wash to prevent crystallization and minimize maintenance. The OMNIS High-Pressure Pump Unit includes a manual purge valve. If a 7/3 injector is installed in the OMNIS IC system, then the purging process can be fully automated.

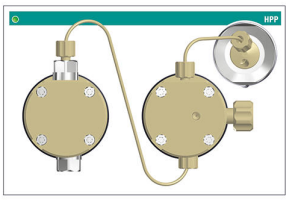
Specifications:

– Pressure range: 0–42 MPa

– Flow range: 0.0001–10.000 mL/min
– Flow accuracy: 0.1%
– Flow reproducibility: 0.1%
– Pulsation: 0.1%
– Pump head material: PEEK

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 2.1056.0210

Order Number	Description	Quantity
1.1056.0210 	**OMNIS High-Pressure Pump Unit** The OMNIS IC High-Pressure Pump Unit is an advanced, chemically resistant high-pressure pump specifically designed for ion chromatography. It features pulsation-controlled delivery of eluents, whereby the delivery volume is automatically compensated, eliminating the need for additional pulsation dampers. The stroke is dynamically optimized according to the operating conditions, ensuring optimal performance. Two synchronized individual drives enable precise control and consistent flow rates. The piston is connected to the drive rather than the pump head, which enhances stability and simplifies maintenance. The flow path is free of metal and chemically inert, guaranteeing maximum compatibility with aggressive media. Additionally, the pump is resistant to substances across a wide pH range from 0 to 14, making it suitable for a broad spectrum of applications. The OMNIS IC High-Pressure Pump Unit can optionally be equipped with a piston seal wash to prevent crystallization and minimize maintenance. The OMNIS High-Pressure Pump Unit includes a manual purge valve. If a 7/3 injector is installed in the OMNIS IC system, then the purging process can be fully automated.	1 PCS

6.01831.110 **PEEK capillary HPP – INJ, 160/0.5 mm** 1 PCS

Pre-cut PEEK capillary with identification label for OMNIS IC

Optional accessories

6.2739.000
Wrench

For tightening connectors

6.2821.120
Inline filter 2 µm

Inline filter 2 µm

6.02621.010
Multitool, HPP

Multi-function tool for performing maintenance on the OMNIS High-Pressure Pump Unit.

6.02741.000
Piston seal, PE, orange

Piston seal for OMNIS IC High-Pressure Pump Unit.

6.02741.030
Maintenance set, piston wash seal, 2 pcs

Maintenance set for piston seal wash of the OMNIS IC High-Pressure Pump Unit.

6.02824.000
Pump piston, ZrO2, 3.8 mm

Pump piston for OMNIS IC High Pressure Pump.

6.02824.010
Check valve inlet, PEEK

Metal-free check valve for the outlet side of the OMNIS IC High Pressure Pump Unit.

6.02824.020
Check valve outlet, PEEK

Metal-free check valve for the outlet side of the OMNIS High-Pressure Pump Unit.

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

6.05801.010
Piston wash kit

Upgrade kit to extend the OMNIS High-Pressure Pump Unit with piston wash. Piston wash seals are included.
Prerequisites:
– 2.1056.0210 OMNIS High-Pressure Pump Unit
– 6.02621.010 Multitool, HPP