



# Automated coulometric KF titrations

MATi 04

MATi 4 is a fully automated system for coulometric KF titrations with high sample throughput. Up to 160 samples in 6 mL vials can be placed on the sample rack of the Sample Processor. The sample is pipetted into an external coulometric cell and then titrated there. The system is controlled with the OMNIS software.

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 MATi 04

Qt.	Order no.	Description
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1 PCS

2.786.0040

786 Swing Head

Additional equipment for Robotic Sample Processors XL without titration or transfer heads.



1 PCS

2.800.0010

800 Dosino

The 800 Dosino is a drive with write/read hardware for intelligent Dosing Units. With fixed cable (length 150 cm).



1 PCS

2.801.0010

801 Stirrer

Magnetic stirrer without stand for supplementing the Titrino plus, Dosimat plus, Titrandos, Sample Processors, 805 Dosimats and 780/781 pH Meters. With permanently attached cable for MSB (Metrohm Serial Bus).



Robotic USB Sample Processor XL with one workstation for the automatic processing of routine samples in series with large quantities and for complex sample preparation or parallel runs. Up to two pumps (membrane or peristaltic) and three dosing devices for Liquid Handling tasks can be connected.

Because of the multitude of application variants, rack, stirrer, titration head, robotic arm, Swing Head and sample vessels must be tailored to the application and ordered separately.

The control is "stand alone" using Touch Control. The following software products can be selected for the PC control: tiamo™ titration software, MagIC Net chromatography software, viva voltammetry software, or OMNIS.



Coulometer including generator electrode without diaphragm.

Coulometry is the ideal method for water content determination in liquids, solids, and gases when it comes to water content determination in the trace range (10 µg to 10 mg absolute water). In addition, coulometry is an absolute method and thus no titer determination is necessary.

Coulometric titrations are carried out easily and quickly with the 851 Titrande.

Recommended measuring range: 10 µg - 200 mg absolute water.

For use with OMNIS Software, tiamo software, or Touch Control unit. Compliance with GMP/GLP and FDA regulations such as 21 CFR Part 11, if required.



Generator electrode with diaphragm for coulometric Karl Fischer titrations, SGJ 29/22.

This generator electrode is well suited for:

- samples with very low absolute water contents < 50 ppm
- coulometric water content determination in oil samples
- applications where ketone reagents are used
- applications where low-conducting reagents are used (addition of chloroform, xylene >10%)



License-based PC program for controlling complex OMNIS analysis systems.

- Sample-oriented operating procedures with numerous templates
- Graphical method editor with numerous templates
- Clearly organized and professional sample lists
- Management of instruments, work systems, sensors, solutions
- Dialog languages: German, English, Chinese



Enables stand-alone operation of the OMNIS Software on a Windows™ computer.

Features:

- The license already includes two OMNIS instrument licenses.
- Must be activated via the Metrohm licensing portal.
- Not transferable to another computer.

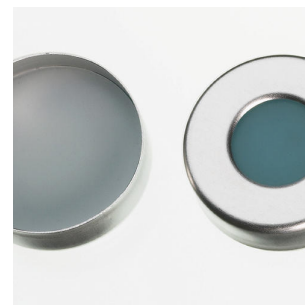


1 PCS

6.1448.050

Aluminum septum caps / 1000 pieces

Including Al sealing.



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1 PCS

6.1543.070

Aspiration tip / M6 thread

For the 661 Pump Unit



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1 PCS

6.1562.130

Transfer Tubing with holder 2 x M6 / 10 mL to  
Sample Processors

Transfer tubing for dilution and preconcentration using a Dosino and  
Sample Processor.



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1 PCS

6.1805.100

FEP tubing / M6 / 40 cm

With light and kink protection



1 PCS

6.2041.710

Sample rack, 160 x 6 mL, (PVC)

Sample rack for 815 Robotic Sample Processor, 855 Robotic Titrosampler "Basic" suitable for 160 sample vessels. The following sample vessels can be used: 6.2419.000.

Plastic: Polyvinyl chloride (PVC)



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1 PCS

6.2151.000

Cable USB A – mini-DIN 8-pin

Controller cable



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1 PCS

6.2419.000

Sample glass, 6 mL, 1000 pieces

Sample glass for up to 6 mL sample, suitable for 6.1448.050 septum, 1,000 pieces



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1 PCS

6.2621.110

Crimping tongs

Crimping tongs for sealing 6 mL sample vials (6.2419.000, 6.2419.007).



807 Dosing Unit with integrated data chip with 10 mL glass cylinder and light protection, mountable to a reagent bottle with ISO/DIN GL 45 glass thread. FEP tubing connection, antidiffusion tip.



Complete equipment for the transfer of solutions from 0.5 to 2.0 mL on the Robotic Sample Processor.

