

Efficient Water Determination Speed Meets Reliability



Efficient workflows

Our latest titrator upholds a legacy of outstanding performance, evolving through generations of innovation, ensures fast and precise results.



Automation and application support

Boost your laboratory productivity by integrating the InMotion KF Six oven autosampler with the METTLER TOLEDO EVA KF titrator. This system automates high-throughput sampling and measures challenging samples.



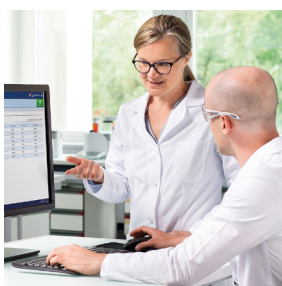
High reliability

The Swiss-designed and manufactured system is built to withstand heavy use, ensuring your titrator's robustness and longevity.



Secure operation

The automatic solvent exchange and emptying function minimize chemical exposure for operators. With the extendable terminal cable, you can conveniently monitor your titrator from outside a fume hood, ensuring both safety and efficiency in your lab.



Digitalized workflows

By integrating LabX™ Software, the system provides streamlined compliance, automatic and centralized data management, ensuring process control, and seamless system integration. This comprehensive digital solution for laboratory workflows simplifies processes and saves time.



EVA C1 Coulometric Karl Fischer Titrator

Your Key to Productivity

The EVA C1 Coulometric Karl Fischer Titrator is the ultimate solution for efficiently determining trace amount of water in various sample matrices.

- Innovative cell design that streamlines cleaning, saving your time and reducing the risk of cross-contamination.
- Comprehensive user management, full control over access rights and permissions.
- Effortless balance integration. Accurate automatic weight transfer to eliminate errors and delays.
- A range of accessories enhance performance and support challenging samples.

METTLER TOLEDO

Technical Specifications

General	Control algorithm	METTLER TOLEDO FFA™ KF Control		
	Technique	Upol DC, amperometric		
	Polarization voltage range	-2300 mV – +2300 mV		
	Polarization voltage resolution	0.1 mV		
	Current measuring range	-240 µA – +240 µA		
	Water resolution	0.001 µg		
External power supply	Nominal input voltage	100 – 240 V AC ± 10%		
	Nominal input frequency	50 – 60 Hz		
	Output voltage	24 V DC		
	Max. power consumption	120 W		
	Power consumption in idle mode	12 W		
	Power consumption during measurement*	16 W		
Application	Determination range	0.01 – 200 mg		
	Limit of detection (LOD)	2 µg		
	Precision (RSD)	100 µg < 5% 1000 µg < 1%		
Dimensions and weight	Width × depth titrator	Titrator 135 × 177 mm	Terminal 194 × 129 mm	dPump KF 51 × 169 mm
	Max. system height (without tubes)	355 mm		
	Max. system weight (excl. bottles)	9.8 kg		

* These values were measured using a standard method under standard lab conditions.

Functionality Overview

All entries are subject to changes!

		EVA C1
Autosampler compatibility	InMotion KF Six	•
	InMotion KF Flex	–
	InMotion KF Pro	–
Data management	LabX™ Software	•
	Network storage via ethernet (csv and pdf)	•
	USB flash drive (csv and pdf)	•
	Network printer DIN-A4/US letter / USB-P25 compact printer	•
Safety and security	Automatic solvent exchange	•
	Direct sample weight transfer from balance	•
	Automatic sample detection and titration start	•
	Comprehensive user management	•
	Remote control and operation in a fume hood with optional 250 cm terminal cable	•
Compliance	21 CFR Part 11 support with optional LabX™ Software	•
	ALCOA++ support with optional LabX™ Software	•

Order information

	Description	Material no.
Standard delivery	Titration kit KFC	30988520
	Solvent pump dPump KF	30869285
	Generator electrode with / without diaphragm	31028002 / 31028003
Alternative vessels	Vessel KFC brown GL80	30988519
	Vessel KFC TS GL80 (thermostatable vessel)	30988517
Accessories	Terminal cable 250 cm	30869309
	Strip printer Compact P25 USB-A	11124301
	Cable USB-A RS232 (to use METTLER TOLEDO RS232 balances)	64088427
	Cable USB-A USB-B (to use METTLER TOLEDO USB balances)	51191926
LabX Software	LabX Data Titration license	30851289
	LabX Centralized Titration license	30851291
	LabX Regulated Titration license	30851293

Service

Protect your investment from day one and beyond with our range of comprehensive services available for EVA C1 and C3 coulometric KF titrators, including professional Installation and Qualification, User training, Extended Care, Calibration, Preventive Maintenance and onsite Repair. Ask your local METTLER TOLEDO representative for more information.

METTLER TOLEDO Group
Analytical Instruments
Local contact: www.mt.com/contacts

www.mt.com/titration

For more information

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Efficient workflows

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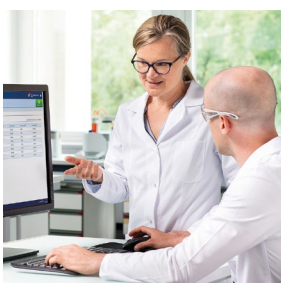
High reliability

The Swiss-designed and manufactured system is built to withstand heavy use, ensuring your titrator's robustness and longevity.



Secure operation

The automatic solvent exchange and emptying function minimize chemical exposure for operators. With the extendable terminal cable, you can conveniently monitor your titrator from outside a fume hood, ensuring both safety and efficiency in your lab.



Digitalized workflows

By integrating LabX™ Software, the system provides streamlined compliance, automatic and centralized data management, ensuring process control, and seamless system integration. This comprehensive digital solution for laboratory workflows simplifies processes and saves time.



EVA C3 Coulometric Karl Fischer Titrator

Your Key to Productivity

The EVA C3 Coulometric Karl Fischer Titrator is the ultimate solution for efficiently determining trace amount of water in various sample matrices.

- Innovative cell design that streamlines cleaning, saving your time and reducing the risk of cross-contamination.
- Comprehensive user management, full control over access rights and permissions.
- Effortless balance integration. Accurate automatic weight transfer to eliminate errors and delays.
- A range of accessories enhance performance and support challenging samples.

METTLER TOLEDO

Technical Specifications

General	Control algorithm	METTLER TOLEDO FFA™ KF Control		
	Technique	Upol DC, amperometric		
	Polarization voltage range	-2300 mV – +2300 mV		
	Polarization voltage resolution	0.1 mV		
	Current measuring range	-240 µA – +240 µA		
	Water resolution	0.001 µg		
External power supply	Nominal input voltage	100 – 240 V AC ± 10%		
	Nominal input frequency	50 – 60 Hz		
	Output voltage	24 V DC		
	Max. power consumption	120 W		
Application	Determination range	0.01 – 200 mg		
	Limit of detection (LOD)	2 µg		
	Precision (RSD)	100 µg < 5% 1000 µg < 1%		
Dimensions and weight	Width × depth titrator	Titrator 135 × 177 mm	Terminal 194 × 129 mm	dPump KF 51 × 169 mm
	Max. system height (without tubes)	355 mm		
	Max. system weight (excl. bottles)	9.8 kg		

* These values were measured using a standard method under standard lab conditions.

Functionality Overview

All entries are subject to changes!

		EVA C3
Autosampler compatibility	InMotion KF Six	•
	InMotion KF Flex	•
	InMotion KF Pro	•
Data management	LabX™ Software	•
	Network storage via ethernet (csv and pdf)	•
	USB flash drive (csv and pdf)	•
	Network printer DIN-A4/US letter / USB-P25 compact printer	•
Safety and security	Automatic solvent exchange	•
	Direct sample weight transfer from balance	•
	Automatic sample detection and titration start	•
	Comprehensive user management	•
	Remote control and operation in a fume hood with optional 250 cm terminal cable	•
Compliance	21 CFR Part 11 support with optional LabX™ Software	•
	ALCOA++ support with optional LabX™ Software	•

Order information

	Description	Material no.
Standard delivery	Titration kit KFC	30988520
	Solvent pump dPump KF	30869285
	Generator electrode with / without diaphragm	31028002 / 31028003
Alternative vessels	Vessel KFC brown GL80	30988519
	Vessel KFC TS GL80 (thermostatable vessel)	30988517
Accessories	Terminal cable 250 cm	30869309
	Strip printer Compact P25 USB-A	30702998
	Cable USB-A RS232 (to use METTLER TOLEDO RS232 balances)	64088427
	Cable USB-A USB-B (to use METTLER TOLEDO USB balances)	51191926
LabX Software	LabX Data Titration license	30851289
	LabX Centralized Titration license	30851291
	LabX Regulated Titration license	30851293

Service

Protect your investment from day one and beyond with our range of comprehensive services available for EVA C1 and C3 coulometric KF titrators, including professional Installation and Qualification, User training, Extended Care, Calibration, Preventive Maintenance and onsite Repair. Ask your local METTLER TOLEDO representative for more information.

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Efficient Water Determination Speed Meets Reliability



Fast Time-to-Result

The Fast Forecasting Amperometric control algorithm (FFA™) maintains a high reagent concentration to increase reaction rate, without sacrificing accuracy. This ensures fast and reliable results.



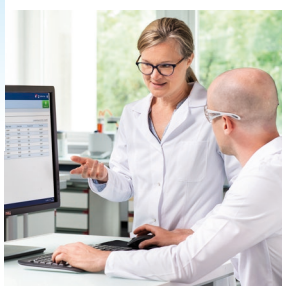
High Reliability

The titrator is designed for durability and precision, exemplified by its exceptional dispensing resolution of 120,000 steps. To maximize your titrator's ongoing accuracy and uptime, add a service maintenance package.



Efficient and Secure Operation

A user-friendly interface provides customizable shortcuts that simplify daily tasks. Automated solvent exchange minimizes the possibility of exposure to hazardous chemicals.



Digital Workflows

LabX™ software supports digital transformation and provides efficient and secure data management. Additionally, it supports compliance with 21 CFR Part 11 and other data integrity regulations.



EVA Karl Fischer Titrator Your Key to Productivity

EVA V1 and V3 titrators are ideal for efficiently determining the water content of simple liquids, soluble solids, and more challenging insoluble samples. Both models enhance your KF titration throughput by enabling:

- High reliability and efficiency via the FFA™ control algorithm, a fast-response digital sensor, and state-of-the-art dispensing technology.
- Convenient, secure workflows via features such as automatic sample detection and method start as well as automatic transfer of sample weights from the balance.
- Simplified handling of challenging samples with a range of accessories, including a small vessel and homogenizers.

METTLER TOLEDO

Technical Specifications

General	Technique	Upol DC, amperometric			
	Polarization voltage range / resolution	-2300 mV ... +2300 mV / 0.1 mV			
	Current measuring range / resolution	-240 µA ... +240 µA / 0.00006 µA (displayed: 0.1 µA)			
	Determination range	100 ppm – 100%			
Burette and dDrive	Dispensing resolution	120000 steps			
	Dispensing accuracy and precision	According to DIN/ISO 8655-3			
Power Consumption	Nominal input rating	100 – 240 V AC ± 10%, 50 – 60 Hz, 1.5 A			
	Standby / idle mode / during measurement*	0.4 W / 12 W / 16 W			
Application	Limit of Quantification (LOQ)*	0.2 mg water per sample (RSD = 1%)			
Dimensions	Width × depth [mm]	Titrator	Terminal	dDrive	dPump KF
		135 × 177 mm	194 × 129 mm	81 × 167 mm	51 × 169 mm

*These values were measured using a standard method under standard lab conditions.

Functionality Overview

		EVA V1	EVA V3
Application	Liquid and soluble solid samples	•	•
	Insoluble solid samples supported via: - homogenizer and blank methods - external sample extraction methods		•
Data Management	Secure data handling with LabX software	•	•
	Network storage via Ethernet, USB stick (CSV, PDF)		
	USB / Ethernet printer A4 / Letter; METTLER TOLEDO thermal and dot matrix printers		
User Management	Full control over access rights and permissions using optional active directory services in LabX software	•	•
Safety and Security	Automatic solvent exchange, automatic burette emptying	•	•
	Direct transfer of sample weights from balance		
	Error-free data transfer ensured using SmartChemicals and a barcode reader		
	Method start from outside a fume hood with optional 2.5 m terminal cable		

Order Information

	Description	Material #	EVA V1 30869280	EVA V3 30869282
Standard Delivery	Burette 5 mL	30869287	Included	Included
	Solvent pump dPump KF	30869285	Included	Included
	Titration kit KfV L (includes large vessel)	30869290	Included	Included
LabX Software	LabX Data Titration license	30851289	•	•
	LabX Centralized Titration license	30851291	•	•
	LabX Regulated Titration license	30851293	•	•
Alternative Burettes	Burette 2 mL	30869286	•	•
	Burette 10 mL	30869288	•	•
Alternative Vessels	Vessel KfV S (small vessel)	30869301	•	•
	Vessel KfV L-TS (thermostatable vessel)	30869302	•	•
Homogenizer	Kinematica (Polytron PT1300 D, PT-DA 12/2EC-E123)	(Third-party offering)		•
	IKA (T25 Easy Clean digital, S25N-18G)	(Third-party offering)		•

Comprehensive Service: Maintain the accuracy and efficiency of your EVA V1 or V3 titrator with services such as professional installation and qualification, preventive maintenance and calibration, on-site repair, and user training.