eppendorf



Generation E

Multipette® E3 and E3x: Dispensing without compromise on accuracy and precision

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> Multipette E3 and Multipette E3x are the experts for long series pipetting and non-aqueous liquids. www.eppendorf.com/multipette-system

»There are many reasons for a Multipette®. You are the most important one!«

In 1979, 17 years after introducing the first piston-stroke pipette, Eppendorf revolutionized the Life Science Market again — always having customer needs in mind. The first positive-displacement pipette, the Multipette, made serial pipetting without repeated liquid aspiration possible. Since then several generations of mechanical and electronic Multipettes have facilitated your daily laboratory work. We now introduce our new electronic Multipettes E3 and E3x. Read how a Multipette makes your everyday routines faster and easier.



Save time

The Eppendorf Multipette pipettes make long pipetting series faster and easier. The aspirated liquid can be dispensed up to 100 times without a refill. It is an ideal and smart solution for filling plates or large series of tubes (e.g., nucleic acid purification kits).



Relax

With the light weight Multipette E3 the risk of repetitive strain injuries is reduced in various ways: It minimizes operation forces through an electronic motor drive, and buttons are positioned to accommodate natural hand movements. A new enlarged display reduces eyes strain when reviewing settings.

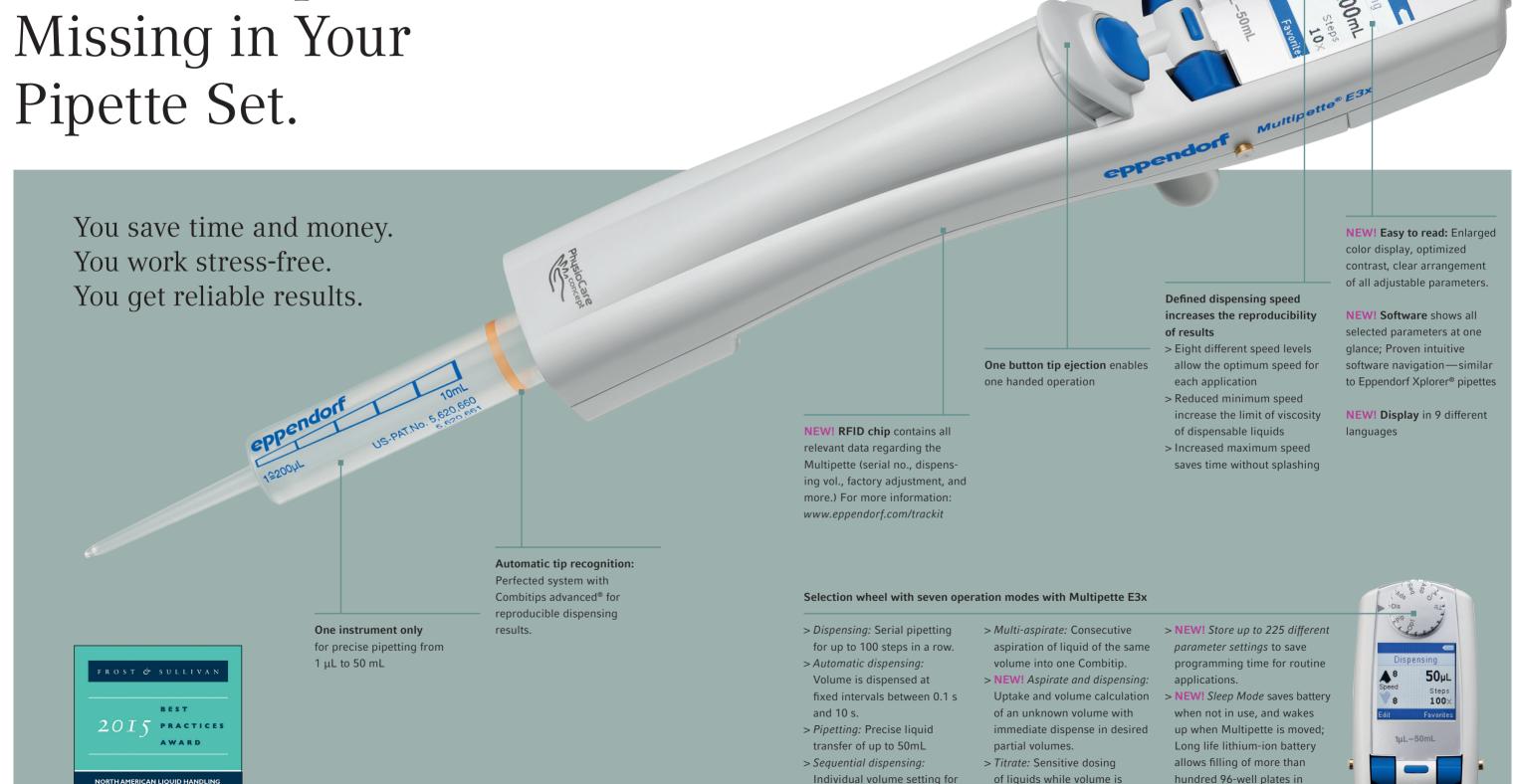


Work precisely and safely

The optimized system of Multipette and Combitips® allows automatic tip recognition for ease of use. The syringe style Combitip maximizes pipetting accuracy and precision. It is not affected by liquid properties, most manual pipetting errors and provides protection from aerosol contamination.

The One Pipette

NORTH AMERICAN LIQUID HANDLING



up to 16 dispensing steps.

displayed.

a row.

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Positive Comments from Participants

Participants of an independent usability study conducted at the Institute of Human Factors Engineering, Technical University Darmstadt, Germany, showed positive responses.

The display always shows exactly what to do. //

Aspirating liquid and dispensing in individual steps was easy. The settings were also easily made.

made easy. // C. Bender

Anonymous Tester

Biology student, Darmstadt, Germany

M. Reinhard

Dipl.-Biol., Darmstadt, Germany

User-friendly operation and clear

menu navigation—complex settings

Positive-displacement Principle

With the Multipette/Combitips system volumes are dispensed using the positive displacement-principle. The liquid is directly dispensed without an air cushion, ensuring the correct volume is always dispensed regardless of the density, viscosity and volatility of the liquid. In addition to serial dispensing, the Multipette/Combitip system is the perfect instrument to go beyond the limitations of a standard pipette.

The Multipette/Combitip positive-displacement principle:

- > Allows high-precision dispensing regardless of the physical properties of the liquid*
- > Prevents aerosol contamination with hermetically sealed piston for secure dispensing
- > Provides protection from radioactive and toxic substances
- > Enables quick dispensing of long series with precise, repeated dispensing of identical volumes
- *Viscous liquids with high resistance to flow e.g. glycerol, liquids with a different density than water, liquids with high vapor pressure e.g. acetone, liquids containing detergent lowering the surface tension, foaming liquids and liquids with different temperatures.



Multipette® E3 and Multipette® E3x at a Glance

Feature	Multipette E3	Multipette E3x
High speed dispensing with motorized piston		
Automatic Combitip® advanced® tip recognition		
One button tip ejection		
Volume range from 1 μl to 50 ml		
Li-ion battery		
Illuminated display		
Automatic dispensing		
Pipetting		
Dispensing		
Aspirate (pipetting of supernatants)		
Titrate		
Sequential dispensing		
Combined aspiration and dispensing mode		

Technical specifications (information refers to the Multipette E3/Multipette E3x/Combitips advanced system)

Combitips advanced	Min. dispens- ing volume	Increment/step size	Max. dispensing volume	Volume	Systematic error*1	Random error*1
0.1 mL	1 μL	0.1 μL	100 μL	10 μL 50 μL 100 μL	±1.6% ±1.0% ±1.0%	±2.5 % ±1.5 % ±0.5 %
0.2 mL	2 μL	0.2 μL	200 μL	20 μL 100 μL 200 μL	±1.3% ±1.0% ±1.0%	±1.5 % ±1.0 % ±0.5 %
0.5 mL	5 μL	0.5 μL	500 μL	50 μL 250 μL 500 μL	±0.9% ±0.9% ±0.9%	±0.8 % ±0.5 % ±0.3 %
1 mL	10 μL	1 μL	1 mL	100 μL 500 μL 1,000 μL	±0.9% ±0.6% ±0.6%	±0.55 % ±0.3 % ±0.2 %
2.5 mL	25 μL	2.5 μL	2,5 mL	250 μL 1,250 μL 2,500 μL	±0.8% ±0.5% ±0.5%	±0.45 % ±0.3% ±0.15%
5 mL	50 μL	5 μL	5 mL	500 μL 2,500 μL 5,000 μL	±0.8% ±0.5% ±0.5%	±0.35% ±0.25% ±0.15%
10 mL	100 μL	10 μL	10 mL	1,000 μL 5,000 μL 10,000 μL	±0.5% ±0.4% ±0.4%	±0.25% ±0.25% ±0.15%
25 mL	250 μL	25 μL	25 mL	2,500 μL 12,500 μL 25,000 μL	±0.3% ±0.3% ±0.3%	±0.35% ±0.25% ±0.15%
50 mL	500 μL	50 μL	50 mL	5,000 μL 25,000 μL 50,000 μL	±0.3% ±0.3% ±0.3%	±0.5% ±0.2% ±0.15%



Multipette® E3/E3x ordering information

Description	Order number
Multipette® E3 with charging adapter and 2 Combitips advanced® assortment packs	4987 000.010
Multipette® E3 with charger stand, 2 Combitips advanced® assortment packs, and charging stand	4987 000.371
Multipette® E3x with charging adapter and 2 Combitips advanced® assortment packs	4987 000.029
Multipette® E3x with charger stand, 2 Combitips advanced® assortment packs, and charging stand	4987 000.380
Charger stand for Multipette® stream/Multipette® Xstream/Multipette® E3 & E3x, for one device	4880 000.018
Charger Carousel for 4 Eppendorf Xplorer® and Xplorer® plus	4880 000.026
Multipette® charger shell for charger carousel Eppendorf Xplorer/Eppendorf Xplorer plus 4880 000.026	4880 601.003
Wallmount for Multipette® stream/Multipette® Xstream/Multipette® E3 & E3x	4986 604.001
Eppendorf TrackIT consisting of software and RFID reader	3903 000.014

Ordering information for Combitips advanced and accessories

Combitips advanced®	Color coding	Eppendorf Quality™ box of 100 pcs. (4 bags × 25 pcs.)	PCR clean*1 box of 100 pcs., (4 bags reclosable bag × 25 pcs.)	Eppendorf Biopur®*2 box of 100 pcs. (individually wrapped)
0.1 mL	☐ White	0030 089.405	0030 089.766	0030 089.618
0.2 mL	Light blue	0030 089.413	0030 089.774	0030 089.626
0.5 mL	Purple	0030 089.421	0030 089.782	0030 089.634
1 mL	Yellow	0030 089.430	0030 089.790	0030 089.642
2.5 mL	Green	0030 089.448	0030 089.804	0030 089.650
5 mL	Blue	0030 089.456	0030 089.812	0030 089.669
10 mL	Orange	0030 089.464	0030 089.820	0030 089.677
25 mL* ³	Red	0030 089.472	0030 089.839	0030 089.685
50 mL* ³	Light gray	0030 089.480	0030 089.847	0030 089.693
Accessories				
25 mL adapter (1 pc.)	Red	0030 089.715		
25 mL adapter (7 pcs.)	Red			0030 089.731
50 mL adapter (1 pc.)	Light gray	0030 089.723		
50 mL adapter (7 pcs.)	Light gray			0030 089.740
Combitip Rack (for 8 Combitips advanced®,	. 0.1 mL-10 mL)	0030 089.758		
Combitips advanced Assortr (1 Combitip of each size, inc		0030 089.936		

^{*1} PCR clean: batch tested and certified to be free of: human DNA, DNase, RNase, PCR inhibitors

> We Care for Your Pipettes

Regular maintenance, calibration and adjustment ensure that your pipettes continue to generate reproducible results. We offer a range of service options, from quick economical calibration to GLP/GMP custom-designed, calibration services – according to national and international standards.



- > More details and local offers: www.eppendorf.com/epservices
- > Video «Eppendorf Pipette Service»: www.eppendorf.com/pipette-video

Your local distributor: www.eppendorf.com/contact

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www.eppendorf.com/multipette-system

^{*2} Biopur®: batch tested and certified to be sterile and free of: human and bacterial DNA, DNase, RNase, PCR inhibitors, ATP, Pyogen *3 4 boxes of 25 pcs. each. Each box contains an adapter.