# eppendorf

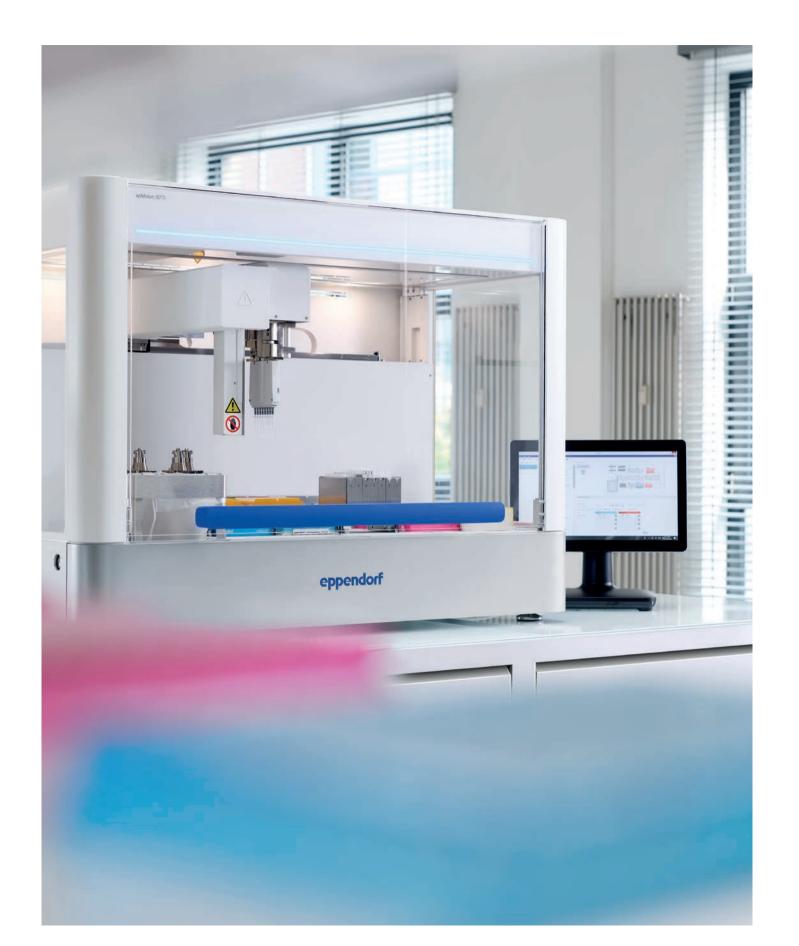


# Natural Winners

You give your all to scientific research every day

Eppendorf liquid handling instruments help you grow beyond your limits

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# »Global Research, Eppendorf Engineering.«

Perfection down to the smallest detail – this principle is adhered to in the design and functionality of Eppendorf pipettes, dispensers and laboratory consumables. The Eppendorf competence and expertise in liquid handling has resulted in many innovations, award-winning ergonomic designs, cutting edge production and the selection of optimal materials for our products.

#### The Eppendorf Liquid Handling Instrument Portfolio

As the first company to launch a microliter pipette, we at Eppendorf have over 60 years' experience in precise manual and automatic pipetting & dispensing to transfer even the smallest quantities of liquids. Today, liquid handling systems from Eppendorf are used wherever accuracy, precision, and absolute reliability are important. In our product development, we strive to simplify cumbersome lab work and make it as safe and efficient as possible so you can concentrate on and accelerate your research.

#### **Master Your Challenging Liquids!**

Are you working with viscous, volatile, dense or foaming liquids? Become an expert and master even challenging liquids precisely with the right tool.



> See page 10 for more information

#### **Eppendorf PhysioCare Concept®**

The use of our liquid handling products has been proven to reduce physical and psychological strain to a minimum by following the rules of the PhysioCare Concept.



> See page 32 for more information

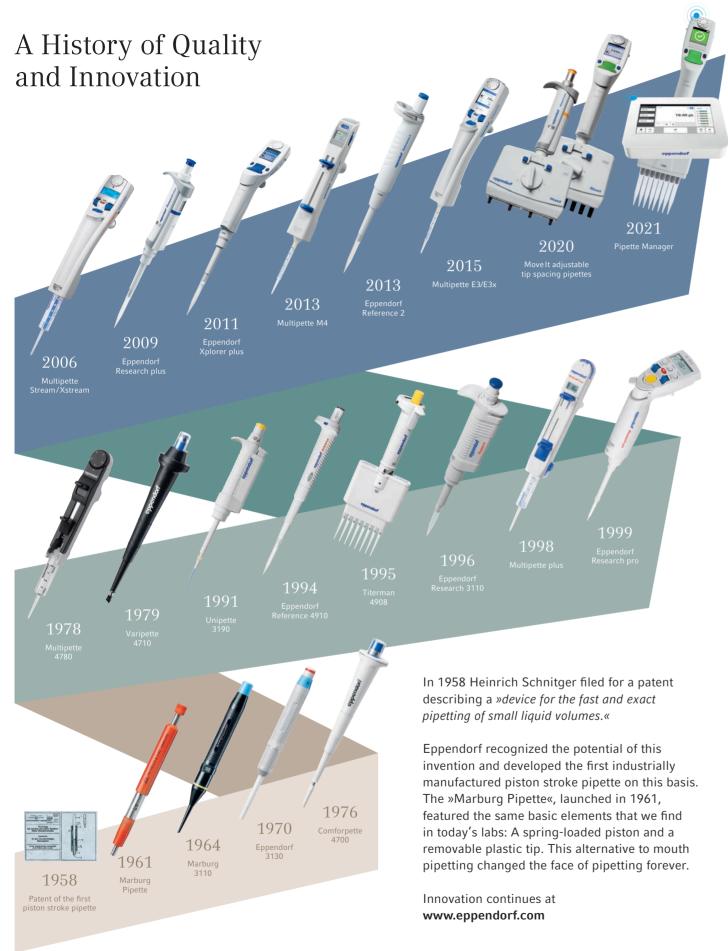
#### **Eppendorf Services**

A comprehensive range of service programs including maintenance, seminars, application, and technical support as well as certification services build the basis for premium support.



> See page 33 for more information

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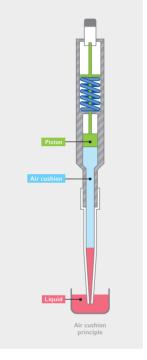
### Which Instrument Should You Use?

Selecting the right pipette or dispenser can be the key to success in your work. It can boost your efficiency and throughput and ensure reliable results for different use cases. Should you be new to liquid handling, please refer to the information below for a quick introduction to the basics.

#### What are air-cushion and positive displacement instruments?

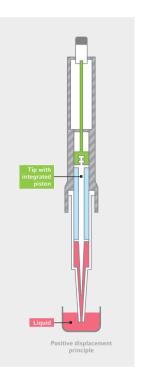
#### Air-cushion principle

Air-cushion pipettes are most commonly used in labs around the world and ideal for liquids with physical properties similar to water. In this instrument type, the piston is separated from the liquid sample by a small air cushion. Temperature or humidity changes, as well as the physical properties of different liquids can affect the performance of air-cushion instruments. To reduce these risks however, Eppendorf air-cushion pipettes work with extra small air cushions and may be temporarily adjusted to different liquids.



#### Positive displacement principle

In positive displacement systems, the piston is part of the tip and in direct contact with the liquid. There is no air cushion that may be affected by liquid sample properties. These tools are therefore ideal for liquids with varying viscosity, volatility, surface tension or density as well as hot or cold liquids. The disposable tips with integrated pistons also prevent contamination and help to keep user and instrument safe when working with hazardous liquids.



#### When should you use an electronic instrument?

The most important general benefits of using an electronic instrument are: better ergonomics by requiring almost no operating forces, a higher precision and reproducibility and an additional efficiency gain due to various operating modes (such as e.g. pipetting and dispensing with only one tool). Furthermore, electronic instruments are the basis for digital lab solutions supporting scientists with choosing settings for different liquid types, collaborating across the lab or documenting steps.

#### When should you think about an automated solution?

Automated liquid handling systems such as the epMotion® family are ideal to take over routine and repetitive pipetting tasks that are commonly found in many molecular biological applications. They are ideally suited whenever complex processes need to be standardized, help to reduce the risk of manual pipetting errors, increase reproducibility and free up your valuable time for other tasks.





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#### Eppendorf Liquid Handling Instruments 8

### Selection Guide

### Air-cushion principle



Pipetting of aqueous liquids

Mechanical, separate control button

Pipette

and ejector

Air-cushion

ultimate ergonomics

0.1 μL-10 mL

1-channel

8-channel



Pipette





Double your performance when

transferring multiple samples

between changing formats

4-channel (9-33 mm)

6-channel (9-20 mm)

8-channel (9-14 mm)

8-channel (4.5-14 mm)

12-channel (4.5-9 mm)

other pipette tip brands

> Eppendorf Quality

> PCR clean & sterile

> Forensic DNA Grade

epT.I.P.S.® and

> Biopur®

Yes (Xplorer plus only lower part)

ep Dualfilter T.I.P.S.® as well as

1–1,200 μL









ositive displacement principle





lyes, acids, bases, aqueous liquids

liquids or solvents

Mechanical

Yes

Bottletop dispenser







> Eppendorf Quality

> PCR clean & sterile

> PCR clean

Pipetting of aqueous liquids

Intuitive and fast pipetting

epMotion 96: 0.5-300 μL, epMotion 96xI: 5-1,000 μL

2-position lifting table

in 96 and 384 format

with 96 channels at once

Semi-automated

Electronic

Air-cushion

96 channel pipette







epMotion® 5073	epMotion® 5075
Serial pipetting of aqueous, viscous and	Serial pipetting of aqueous, viscous and
olatile liquids in automated way for	volatile liquids in automated way with
routine tasks	highest flexibility and tool options
Automated Liquid Handling	Automated Liquid Handling
-	-
Automation	Automation
Air-cushion	Air-cushion
No	No
Same as 5070 but more flexibility with	Same as 5070 but full flexibility with
6 deck positions and more features	15 deck positions and even more features
D.2–1,000 μL,	0.2–1,000 μL,
1 & 8 channel	1 & 8 channel
Same as 5070, plus gripper transport,	Same as 5073, plus up to 3 thermal modules
1 thermal module, ThermoMixer,	automatic exchange of 4 dispensing tools,
HEPA filter & UV light, automatic exchange	ThermoMixer and/or vacuum manifold
of 3 dispensing tools	
Yes (tools), UV light and	Yes (tools), UV light and
HEPA filter (optional)	HEPA filter (optional)
epT.I.P.S.® Motion tips as racks or reloads	epT.I.P.S.® Motion tips as racks or reloads
Ennandarf Quality	> Enpandarf Quality
> Eppendorf Quality > PCR clean	> Eppendorf Quality > PCR clean
Z E CIN CIERLI	> r Cix ciedii

Available options

Application

Product type

Operation

Compatible with Pipette Manager

Pipetting type

Positioning

Volume range

Adjustable cone spacing

	12-channel
	16-channel
	24-channel
Autoclavable	Yes
Consumables	epT.I.P.S.® and
	ep Dualfilter T.I.P.S.® as well
	other pipette tip brands
Purity grades	> Eppendorf Quality
of consumables	> PCR clean & sterile
	> Biopur®
	> Forensic DNA Grade



Mechanical, combined control

Light weight and pipetting force for Reliability in robustness and results Intuitive and fast pipetting

button and ejector

Air-cushion

0.1 μL-10 mL

1-channel

8-channel

12-channel

epT.I.P.S.® and

ep Dualfilter T.I.P.S.® as well as

other pipette tip brands

> Eppendorf Quality

> PCR clean & sterile

> Forensic DNA Grade

> Biopur®

	Eppendorf Xplorer®/Xplorer® plus	. — E
i	Pipetting of aqueous liquids	. <u> </u>
	Pipette	 F

Electronic, separate control button

and ejector

Air-cushion

0.5 μL-10 mL

1-channel

8-channel

12-channel

16-channel

24-channel

> Biopur®

Yes (lower part)

epT.I.P.S.® and

ep Dualfilter T.I.P.S.® as well as

other pipette tip brands

> Eppendorf Quality

> PCR clean & sterile

> Forensic DNA Grade



Eppendorf Xplorer® plus Move It®	
Pipetting of aqueous liquids	Pipetting of aqueous liquids with serological and volumetric pipettes
Pipette	Pipette controller
Yes (Xplorer plus variants only)	_
Mechanical or electronic, separate control button and ejector	Electronic
Air-cushion	Air-cushion

0.1-100 mL

1-channel

Yes (pipette adapter

and aspirating cone)

serological pipettes

> Free of detectable

RNase & DNase

> Free of detectable DNA

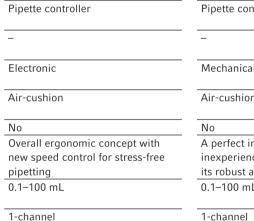
> Forensic DNA Grade

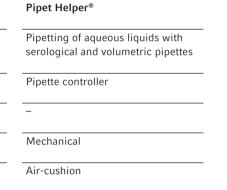
> Sterile

Eppendorf Serological Pipets

> Free of detectable pyrogens

and other volumetric and





	No
ct instrument for	Time savings for serial dispensing
ienced users because of	and high accuracy for challenging
st and intuitive design	liquids
mL	1 μL-10 mL
el	1-channel

1-channel	1-channel
Yes	No
Eppendorf Serological Pipets	Combitips® advanced
and other volumetric and	ViscoTip®
serological pipettes	
> Sterile	> Eppendorf Quality
> Free of detectable	> PCR clean*1
RNase & DNase	> Biopur®*1
> Free of detectable pyrogens	> Forensic DNA Grade*1
> Free of detectable DNA	

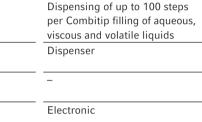
> Forensic DNA Grade

#### Multipette® M4 Multipette® E3/E3x Dispensing of up to 100 steps per Combitip filling of aqueous, viscous and volatile liquids

Dispenser

Mechanical

Positive displacement



Positive displacement

Reduced strain for long

volume flexibility

Combitips® advanced

> Eppendorf Quality

> Forensic DNA Grade\*1

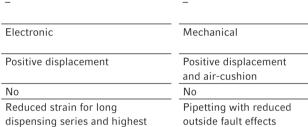
1 μL-50 mL

1-channel

ViscoTip®

> PCR clean\*1

> Biopur®\*1



1-10 mL

1-channel

**Eppendorf Varitips** 

> Eppendorf Quality

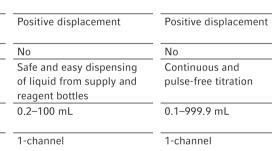
Varipette® 4720

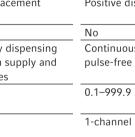
Contamination-free

pipetting of aqueous,

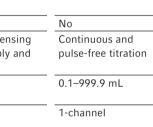
Pipette

viscous andvolatile liquids





Single stroke dispensing of Titration of aqueous

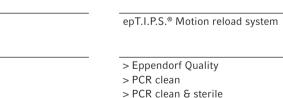




Bottletop burette

Electronic







Serial pipetting of aqueous, viscous and volatile liquids in automated way for easy tasks on small foot print	Serial pipetting of aqueous, viscous and volatile liquids in automated way for routine tasks	Serial pipetting of aqueous, volatile liquids in automated highest flexibility and tool op		
Automated Liquid Handling	Automated Liquid Handling	Automated Liquid Handling		
-	-	-		
Automation	Automation	Automation		
Air-cushion	Air-cushion	Air-cushion		
No	No	No		
Reproducible, contamination-free, contactless pipetting at high precision and accuracy	Same as 5070 but more flexibility with 6 deck positions and more features	Same as 5070 but full flexibil 15 deck positions and even n		
0.2–1,000 μL,	0.2–1,000 μL,	0.2–1,000 μL,		
1 & 8 channel	1 & 8 channel	1 & 8 channel		
Automatic exchange of 2 dispensing tools, PC control	Same as 5070, plus gripper transport, 1 thermal module, ThermoMixer, HEPA filter & UV light, automatic exchange of 3 dispensing tools	Same as 5073, plus up to 3 th automatic exchange of 4 disp ThermoMixer and/or vacuun		
Yes (tools)	Yes (tools), UV light and HEPA filter (optional)	Yes (tools), UV light and HEPA filter (optional)		

epT.I.P.S.® Motion tips as racks or reloads

# Master Any Type of Liquid

									Eppendorf Solutions	
		Water	<b>Viscous</b> e.g. glycerol, oil	<b>Dense</b> e.g. sulfuric acid, caesium chloride	<b>Volatile</b> e.g. acetone, ethanol	Infectious / radioactive e.g. biohazard material	Detergent / detergent-containing e.g. Tween 20, Triton™ X-100	<b>Foaming</b> e.g. protein-containing liquids	Mechanical systems	Electronic systems
Type of Liquid					\$\frac{\zero}{\zero}			0.00		
Potential problems	Observations	> Air-cushion pipettes are optimized to the physical properties of water	> High resistance to flow > Liquid residues stay attached to inside tip wall > Imprecise results	<ul><li>Influence on size of air-cushion</li><li>Dispensed volume too low or too high</li></ul>	> Air-cushion expands > Liquid drips out of the tip > Imprecise results	> Aerosols contaminate pipette > Threat to human health and sample safety	> Reduced surface tension > Liquid residues stick to the inner wall of the tip > Imprecise results	> Foam is created > Liquid residues remain in the tip > Imprecise results	Advantages > Easy to clean > Economical > Lightweight	Advantages > High reproducibility > Ergonomic working > Multifunctionality
Workaround	Air-cushion pipettes	<ul><li>Optimally suitable for the use of water</li><li>No adaptation necessary</li></ul>	> Work slowly > Reverse pipetting > Adjust to liquid type*1	> Adjust pipette to liquid density > Adjust to liquid type*1	> Prewet at least 5 times > Reverse pipetting > Adjust to liquid type*1	> Use filter tips > Automated systems protect user and sample	<ul> <li>Use tips with low retention effect</li> <li>Adjust to liquid type*1</li> </ul>	> Reverse pipetting	> Eppendorf Research® plus > Eppendorf Reference® 2 > Research plus Move It® > Pipet Helper®	> Eppendorf Xplorer® (plus) > Pipette Manager > Xplorer plus Move It® > Easypet® 3 > epMotion®
	Positive displacement dispenser	> Serial pipetting for multiple samples and vessel formats	<ul> <li>Higher precision         regardless of physical         properties of liquid</li> <li>Serial dispensing</li> <li>No adjustment to         liquid type needed</li> </ul>	<ul> <li>Higher precision         regardless of physical         properties of liquid</li> <li>Serial dispensing</li> <li>No adjustment to         liquid type needed</li> </ul>	<ul> <li>Higher precision regardless of physical properties of liquid</li> <li>Serial dispensing</li> <li>No adjustment to liquid type needed</li> </ul>	> Higher precision regardless of physical properties of liquid > Serial dispensing	> Higher precision regardless of physical properties of liquid > Serial dispensing	> Higher precision regardless of physical properties of liquid > Serial dispensing	> Multipette® M4	> Multipette® E3/E3x
Recommendations	Positive displacement pipettes	> Varitip S*3,4 system allows accurate pipetting from large bottles and narrow vessels	> Varitip P*2 allows accurate pipetting, for example from beakers	> Varitip P*2 allows accurate pipetting, for example from beakers	<ul> <li>Varitip P*2 allows         accurate pipetting,         for example from beakers</li> <li>Varitip S system and valve         for drip-free dispensing</li> </ul>	> Varitip P*2 allows accurate pipetting, for example from beakers	> Varitip P*2 allows accurate pipetting, for example from beakers	> Varitip P*2 allows accurate pipetting, for example from beakers	> Varipette® 4720	
	Bottletop dispenser and burets	> Liquid dispensing directly from supply bottles	> Liquid dispensing directly from supply bottles (with Varispenser® 2/2x up to a viscosity of 500 mm²/s)	> Liquid dispensing directly from supply bottles up to a density of 2.2 g/cm <sup>3</sup>	> Liquid dispensing directly from supply bottles up to a vapor pressure of 500 mbar	> Liquid dispensing directly from supply bottles	> Liquid dispensing directly from supply bottles (with Varispenser® 2/2x up to a viscosity of 500 mm²/s)	> Liquid dispensing directly from supply bottles	> Varispenser® 2/2x for dispensing large volumes	> Eppendorf Top Buret for titration

12 Air-cushion principle Air-cushion principle 13

### Eppendorf Research® plus

The Eppendorf Research plus combines about 60 years of innovation in liquid handling to provide you with one of the safest and most ergonomic pipettes available today. The Research plus pipette is remarkably light, both in terms of weight and pipetting forces, setting new standards for ergonomic operation. It is comforting to know you are working with one of the most advanced pipettes in the world.

A spring loaded tip cone, a temporary adjustment option, an improved volume display - and all that in a light, fully autoclavable pipette. In 2021, the Research plus single-channel pipette line-up with variable volume has been certified with an ACT® Environmental Impact Factor Label, making it the ideal choice for labs looking for more sustainable products.

The Research plus pipette will become an indispensable tool in your laboratory.





variants with variable

#### Research plus benefits

- > Light mechanical pipette designed according to the strict criteria of the Eppendorf PhysioCare Concept®
- > Very low weight and operating forces for advanced ergonomics to limit strain on your hand and arm
- > Temporary adjustment option to offset inaccuracies when pipetting warm, cold, volatile or high density liquids and return to factory adjustment without calibration
- > One of the most commonly used pipettes in the world
- > Available as single-, 8-, 12-, 16- and 24-channel as well as adjustable tip spacing multi-channel pipette (Move It®)

#### High flexibility

Your new pipette should offer all the flexibility you need. Adjust your Research plus to your needs, autoclave the entire pipette or only the lower part. Choose among single-channel, multi-channel and fixed-volume pipettes in different sizes.

Ppendorf Research Plus

#### Temporary adjustment option for various liquid classes

Adjust your pipette in seconds for better accuracy when pipetting various difficult liquids like ethanol or even when pipetting at high altitudes.

#### Advanced ergonomics

Feel the difference in weight, pipetting forces and the spring loaded tip cone\*.

#### Low tip attachment force

Achieve optimal tightness and minimal attachment forces with the Eppendorf Research plus pipette. The spring loaded tip cone\* helps to reduce stress without sacrificing tightness.

#### Low tip ejection force

How many tips do you use per day? Even small differences in the tip ejection force make a big change if you do it day by day. With the Eppendorf Research plus pipette, you'll benefit from one of the lowest tip ejection forces on the market.

#### Spring-loaded tip cone\* for exactly reproducible tip fit

No need for rocking. Just a soft pressure is sufficient for tip attachment. Get extremely consistent sample pickup, even in multi-channel pipettes, and maximize user to user reproducibility for more uniform results in your lab.







The name »Reference« stands for extraordinary precision and accuracy, a long service life, and an ergonomic design. With an innovative one-button operation, the Reference 2 allows fast and ergonomic handling with reduced operating efforts. Its unique smooth surface and autoclavability guarantee efficient decontamination making it the ideal companion when working under sterile conditions.

Our best material and the latest technologies are implemented in this pipette, making it a reliable partner for you and your demanding work.

#### Reference 2 benefits

- > High precision and accuracy provides reliable results
- > 4-digit display for highly accurate volume setting (clearly visible from every angle)
- > Quick and secure volume setting, including volume lock
- > Fully autoclavable and easy-to-clean smooth surface
- > Color coded and volume labeling for quick identification of the volume size/tip size
- > Round upper part makes it possible to work in every position
- > Available as a single-channel pipette in fixed or variable volume as well as 8- and 12-channel pipette



#### User friendly temporary adjustment

For liquids other than aqueous solutions, pipettes have to be adjusted. The Reference 2 provides easy possibility to do so, leaving the factory settings untouched. Reset back to manufacturer setting just as quick and easy.



#### Stainless steel upper part

The external edges made from stainless steel equip the Reference 2 with outstanding robustness at potential impact sites. It includes a quick volume setting and secure volume lock.









#### Spring-loaded tip cone

Attach every tip with the same force – regardless of the user. Achieve optimal tightness with low attachment and ejection forces.

#### Unique surface

Few grip marks and a smooth surface for comfortable working and simple cleaning. The Reference 2 is fully autoclavable without disassembling.

#### Sturdy upper handle

Guarantees long service life and increased robustness.

#### Heightened traceability

The serial number is printed on multiple components of the pipette. This prevents parts from being mixed up and indicates if one of the volume defining parts has been exchanged.





> Learn more and find product videos at www.eppendorf.com/reference2 16 Air-cushion principle Air-cushion principle 17

### Eppendorf Xplorer®/Eppendorf Xplorer® plus

People who give 100% every day deserve the best tools and the best equipment. You work on demanding problems, and important decisions depend on the results of your work. With the Eppendorf Xplorer or Xplorer plus electronic pipette, your work achieves a new level of simplicity, precision and reproducibility, which means no more delays due to complicated programming or inflexible processes.

All Eppendorf Xplorer and Xplorer plus single-channel pipettes are certified with an ACT® Environmental Impact Factor Label, providing laboratories with a standardized way to assess sustainability standards and choose environmentally-friendly suppliers.

#### Xplorer/Xplorer plus benefits

- > Intuitive handling: Selection dial & multifunctional rocker
- > Optimal ergonomics: Designed according to Eppendorf PhysioCare Concept
- > High reproducibility: Spring loaded tip cone, individual adjustment, and a motorized piston
- > Ease of use: After tip ejection, the piston automatically returns to the zero position
- > Includes a history function that automatically saves the last parameters for faster handling
- > Full control: Edit and Help at the push of a button
- > Available as single-, 8-, 12-, 16-, and 24-channel as well as adjustable tip spacing multi-channel pipette (Move It®)



#### **Expanded version**

The Eppendorf Xplorer plus electronic pipette is the perfect choice for all users who simply need a little extra – more safety and speed every day! With its additional intelligent modes, adjustable fixed volumes and individual settings, tasks are performed much faster and easier. A password can be entered to guarantee the highest degree of protection for your programming and settings.

To ensure adherence to service intervals and thus guarantee the accuracy of your results, the Xplorer plus pipette offers an integrated service reminder. You can choose a reminder based on the period of time or on the frequency of use.



reddot design award best of the best







#### More than 35 variants

The Eppendorf Xplorer plus is available as single-, 8-, 12-, 16- and 24-channel pipette.



#### Pipette Manager

Connect electronic pipettes and start pipetting right away. See more on page 28.



Selection dial

All functions at a glance and easily selectable

#### Multilingual menu

User interface in 9 languages

### **Function control softkeys**

Edit and Help at the push of a button

#### Innovative ejector

Electronically linked to the piston control



> Learn more about your benefits with Xplorer at www.eppendorf.com/DiscoverXplorer 18 Air-cushion principle Air-cushion principle 19

# Eppendorf Research® plus Move It® and Eppendorf Xplorer® plus Move It®

#### Double your performance

Often, single-channel pipettes are used for multiple sample transfer from one vessel type to another, from tubes to plates for instance. This can be time-consuming and inconvenient, especially when throughput increases. Instead of pipetting many times, up to twelve samples can now be moved simultaneously with the 4-, 6-, 8- and 12-channel Move It pipettes. Move It pipettes are equipped with adjustable cones for variable tip spacings according to your vessel format. This easy handling of format changes helps to reduce throughput time by 50 % and increase reproducibility of your results.

#### Format limiter

eppendorf

Enabling quick switches backwards and forwards between the formats

### Rotating lower part - 360°

- > Comfortable readability of display
- > Ergonomic and relaxed body posture

#### Adjustment knob

- > Quick manual tip spacing adjustment
- > Spacing adjustment without vibrations

#### Adjustable tip spacing

- > For microplates, sample tubes, agarose gels and further formats
- > Tip spacing freely selectable between 4.5 and 33 mm





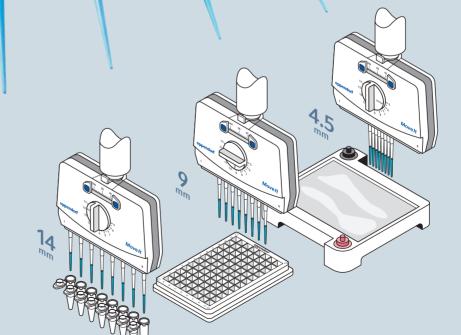
#### Move It benefits

- > Easy and fast format changes increasing your efficiency up to 50 %
- > Less breaks needed thanks to an optimal balance in the hand
- > 360° rotatable pipette head for fast identification of parameters
- > Tubeless design allows for increased durability, precision and autoclavibility









Movelt

#### **Tubeless system**

- > Reliable robustness and precision
- > Easy autoclavability\*

#### Format change

- > Easy and fast among plates with up to 384 wells, 1.5 and 2.0 mL tubes and agarose gels
- \* Xplorer plus lower part only, Research plus

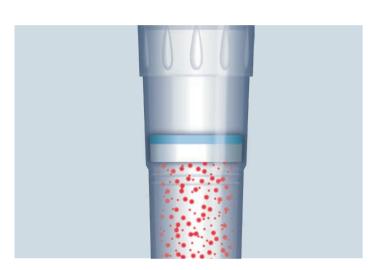
> Find more information at www.eppendorf.com/move-it



### epT.I.P.S.®

The fact that a tip fits onto a pipette cone does not say anything about the performance of the pipetting system comprising the components »Pipette and Tip«. The standard ISO 8655 considers pipettes and pipette tips as a system. Eppendorf as a system provider manufactures a system instead of single parts of it.

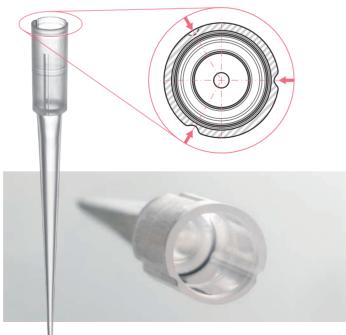
epT.I.P.S. piptte tips are available in purity grades of Eppendorf Quality, PCR clean and Biopur®. Packed as reloads, reusable boxes, racks for single-use and singles blistered in medical paper.



### ep Dualfilter T.I.P.S.®

Premium filter tips with a two-phase filter for contamination protection. The two filter layers, made of flexible, hydrophobic material, fit perfectly in the tip cone and retain nearly 100 % of all aerosols and biomolecules.

ep Dualfilter T.I.P.S. are available in PCR clean/Sterile and Forensic DNA Grade. Also available as ep Dualfilter T.I.P.S. SealMax for reliable protection from accidental over-pipetting.



### epT.I.P.S.® 384

epT.I.P.S. 384 pipette tips are optimized for Eppendorf 16- and 24-channel pipettes and selected Move It variants. Process 384-well plates manually with highest level of tip tightness and coaxiality but extraordinary low operating forces.

epT.I.P.S. 384 are available in purity grades of Eppendorf Quality and PCR clean, packed as reusable box and reloads.

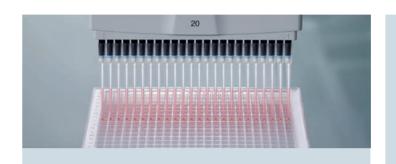
Also available: ep Dualfilter T.I.P.S. 384 with the renowned Eppendorf dualfilter technology.



### Twice as Fast in 384-Well Applications

With the advent of the high-throughput screening approach, which is widely used in the pharmaceutical research industry the need for microplates with a larger number of

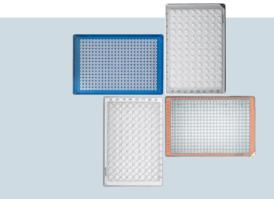
wells arose. The 384-well microplate was then developed and implemented as a consumable for drug development assays.



# 16 / 24-Channel Pipettes and epT.I.P.S.® 384

With the lightweight Research plus pipette or the fast and precise Xplorer plus electronic pipette you get a higher volume of precision work done. Get extremely consistent sample pickup across all channels and fill a complete 384-well plate within 1 minute. It couldn't be easier to perfectly hit all 384 wells as the epT.I.P.S. 384 have an extremely fine tip shape, and an extraordinary coaxiality which enables a perfect tip alignment.

www.eppendorf.com/ready-set-pipette



### 384-Well Plates

Eppendorf consumables make everyday routines faster, easier, and more reliable. Eppendorf 384-well plates are available as Deepwell plates (384/200  $\mu L$ ), Microplates (384/F and 384/V), Assay/Reader Microplates (384/V black and white), Protein and DNA LoBind and twin.tec® PCR plates.

www.eppendorf.com/plates

### Also Interesting











22 Positive displacement principle 23

### Multipette® M4

The Multipette M4 multi-dispenser is the ideal precision instrument for completing long pipetting series without the need for repeated liquid aspiration.

The Multipette dispenser is the tool of choice when working with liquids that possess demanding physical properties like high viscosity, density or volatility. With the Multipette/Combitips® system, volumes are dispensed using the positive displacement principle. The liquid is directly dispensed without an air-cushion, ensuring highest precision regardless of the physical properties of the liquid.

#### Multipette M4 benefits

- > Automatic Combitips® advanced dispenser tips recognition eliminates time-consuming volume calculations
- > Dispensing up to 100 times without refilling the Combitips® tip
- > Wide dispensing range: 1 μL to 10 mL
- > Stress-free work via integrated step counter: Dispensing procedures can be continued error-free after an interruption or distraction
- > Fully emptied Combitips® can be easily ejected with one hand using the operating lever



reddot design award winner 2013



Precision for challenging liquids
Time saving
The Multipette M4 dispenser
can precisely dispense even
viscous, volatile, foaming and
high-density liquids.
Time saving
The Multipet
helps to make series easier,



The Multipette M4 dispenser helps to make long dispensing series easier, safer, and faster.



> Pipette even challenging liquids like an expert: www.eppendorf.com/m4

### Multipette® E3 / Multipette® E3x

The Multipette E3 and E3x make your everyday pipetting routines faster, easier and more precise. They combine the advantages of a positive displacement dispenser, time saving and precise handling of challenging liquids, with those of an electronic pipette. Even tough-to-handle liquids like cream can be dispensed in combination with the ViscoTip® dispenser tips.

The Multipette E3 and E3x offer the same benefits as the M4.

#### Additional benefits of the Multipette E3 and E3x

- > Defined aspiration and dispensing speed for highest reproducibility of results (eight different speed levels)
- > Easy to read: Enlarged color display, optimized contrast, clear arrangement of all parameters
- > Store up to 225 different parameter settings to save programming time for routine applications
- > All selected parameters shown at one glance
- > Display/operating menu in 9 different languages



Multipette E3	Multipette E3x
•	
•	
•	
	Multipette E3

> Multipette E3 and Multipette E3x are the experts for long series pipetting and liquids with demanding physical properties: www.eppendorf.com/multipette-system



24 Positive displacement principle 25

### Combitips® advanced

In combination with the Multipette M4 and E3/E3x, Combitips advanced dispenser tips form an ideal system for a broad range of liquid handling applications.

#### Combitips advanced benefits

- > Time saving for long dispensing/pipetting series
- > High-precision dispensing regardless of the physical properties of the liquid (e.g., viscosity, volatility, density, temperature...)
- > Prevention of aerosol contamination with hermetically sealed piston
- > Protection from radioactive and toxic substances
- > 9 available volume sizes (0.1 mL-50 mL) offer a maximum range of dispensing volumes
- > Individually color coded: Quick identification of the desired Combitips dispenser tips speeds up your workflow (color coding is also visible on packaging)





Elongated tips (for 2.5 mL, 5 mL, 10 mL)
Complete emptying of all common tubes
prevents sample loss



#### Variety and selection

With 9 volume sizes (0.1 mL to 50 mL) and 4 purity grades (Eppendorf Quality, PCR clean, Eppendorf Biopur®, and Forensic DNA grade) you will always find the perfect Combitips dispenser tip for your application!

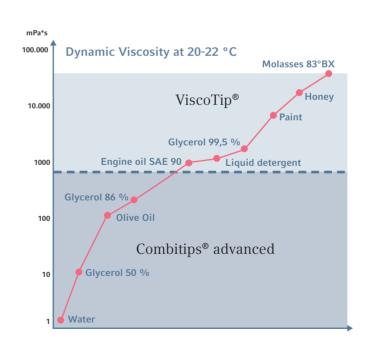
### ViscoTip®

Let it flow! The Multipette consumable ViscoTip is specialized on tough-to-handle liquids like cream. Therefore, ViscoTip dispenser tips naturally expands the broad range of applications for our often copied, never equaled Combitips advanced/Multipette system. For fast, precise and safe liquid handling.

#### ViscoTip benefits

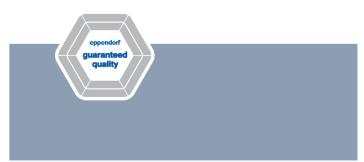
- > Specialized for liquids with a dynamic viscosity from 200 mPa\*s to 14.000 mPa\*s
- > For dispensing volumes from 100  $\mu L$  to 10 mL in increments of 10  $\mu L$
- > Significantly lower operation force, thus speeding up work and reducing energy consumption
- > Automatic tip recognition and volume calculation
- > Free of experiment-interfering leachables and slip agents





#### Dynamic viscosity

The ViscoTip dispenser tips is specifically designed and optimized for handling high viscosity liquids up to 14,000 mPa\*s such as Glycerol 99.5%, Tween, oils, cremes, shampoos or honey. It sharply reduces operating forces while handling such liquids leading to enhanced ergonomics, increased working speed and longer charge life time of your Multipette dispenser battery.







26 Air-cushion principle 27

# Easypet® 3

It has never been easier to combine speed, safety, precision and comfort. Experience a new dimension of speed control and precision by intuitive, convenient speed adjustment. You will always be informed about your battery status with the vibrantly backlit LED battery meter.







The Pipet Helper is a pipet controller which covers the range of bulb and graduated pipettes from 0.1 to 200 mL. The valve system allows for convenient operation without effort. Low weight and optimized design with ergonomic arrangement of functions.

#### **Eppendorf Serological Pipets**

The serological pipets are made of ultra-clear virgin polystyrene. They have a sterility assurance level of  $10^{-6}$  and a certified absence of detectable pyrogens, DNA, RNase and DNase, non-cytotoxic.



The Varipette is a continuously adjustable pipette that works according to the air-cushion and positive displacement principle. Thus the pipette is especially designed for precise pipetting of liquids with high vapor pressure or viscosity. The Varitip® P and S pipette tip systems are tailored to different vessels.

### Varispenser® 2/2x

Varispenser 2/2x bottle-top dispensers are ideal for dispensing aliquots of liquid from supply bottles. Available in 6 sizes for 0.2–100 mL and fully autoclavable. Varispenser 2x has a recirculation valve which prevents reagent loss while ventilating.



### Eppendorf Top Buret

The Eppendorf Top Buret bottle-top burette sets standards for manual titration. Its pulse-free dispensing technique allows continuous dispensing of liquid with precision values within required limits.







28 Accessories 29

### The Future is Now! Connect your Electronic Pipettes

Who doesn't enjoy greater freedom and convenience when it comes to pipetting? Be ahead of the curve! Upgrade to connected electronic pipettes and enjoy faster operation, increased reproducibility and digital documentation of every step.

- > Work faster by selecting your volume and pipetting speed via touch screen
- > Be more accurate with guidance for pre-defined liquid classes
- > Be confident about your documentation with digital records of your pipette activities

### Evolve your electronic pipette with the Eppendorf Pipette Manager

Easily convert your Eppendorf Xplorer, Xplorer plus or Move It electronic pipettes into connected devices with a WiFi module.

Connect to the Pipette Manager and take your pipetting to the next level. The standalone touch server allows for even more ease of use and quicker setting of features while giving ad hoc guidance for ideal settings when working with challenging liquids. If needed, it can even document every pipetting step.





How does the Pipette Manager system work?



- **1.** Convert Eppendorf Xplorer, Xplorer plus and Xplorer plus Move It pipettes into connected electronic pipettes.
- 2. Pipette Manager External touch server establishes communication with connected electronic pipettes and tablets via WiFi technology.
- **3.** Connect your tablet (Android and iOS) to work in parallel with other lab users.

### Eppendorf Pipette Holder System

Carousels, stands and wall mount devices: The Pipette Holder System is perfect for all users of handheld liquid handling instruments, who need a highly flexible system for their Eppendorf pipettes and Multipette multi-dispensers.

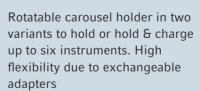














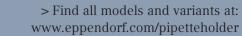
Pipette stands as holder or including a charging function for single devices. High flexibility due to exchangeable adapter



Various holders for wall-mounting, installation on a shelf above the bench or inside biological safety cabinets



> Learn more and experience a digital demonstration at: www.eppendorf.com/pipette-manager





30 Automated liquid handling 31

### Eppendorf epMotion® Portfolio



### epMotion® 96

The Eppendorf epMotion 96 is a semi-automated, 96-well multichannel pipette for fast and precise parallel microplate processing. It is an easy to use bench top liquid handling system for high precision pipetting in 96 and 384 well plates. Without changes to the system, a large volume range of 0.5  $\mu L$  to 300  $\mu L$  is available for convenient use over a range of applications. Its ergonomic design and intuitive handling makes the epMotion 96 a great tool for anyone in the lab who needs fast and precise liquid handling in 96 format.

#### Product Feature Highlights epMotion 96/96xl

- > Electronic pipetting with parallel piston movement for better precision and reproducibility
- > Two tip sizes covering the 0.5  $\mu$ L to 1,000  $\mu$ L operational range for maximum accuracy
- > Auto-detection of tip sizes without the need to change heads
- > Use 96 tips at once or use tips column-wise (8, 16, 24, etc.)



### epMotion® 5070

Our smallest member of the epMotion family is the most compact solution for accurate and reproducible automated pipetting. This makes the epMotion 5070 a perfect match for any routine application such as PCR and qPCR setup, serial dilutions, reagent distribution, sample transfer from tubes to plates, and sample normalization.

#### Product Feature Highlights epMotion 5070

- > 4-position worktable
- > Volume range 0.2 to 1,000  $\mu$ L (depending on used dispensing tools)
- > Automatic tool exchange for 2 tools
- > Small footprint of 65 × 48 cm fits small lab benches
- > MultiCon PC controller with simulation, network and software upgrade options
- > Intuitive drag-and-drop-based software

Available as PCR Solution bundle with dispensing tool and accessories.



### epMotion® 5073

These automated pipetting systems are perfectly suited for PCR and qPCR setup, nucleic acid purification as well as low-throughput NGS library preparation. It yet retains the flexibility that allows the use as open platforms for diverse liquid handling tasks. The epMotion 5073 series automates and simplifies what are traditionally complex, labor-intensive pipetting tasks, saving time and improving the reproducibility of results.

#### Product Feature Highlights epMotion 5073

- > 6-position worktable
- > Volume range 0.2 to 1,000  $\mu$ L (depending on used dispensing tools)
- > Automatic tool exchange for 3 tools
- > Option for gripper, one thermal module\*1 or Eppendorf ThermoMixer®\*2
- > Optional UV lamp and air filter system for decontamination and clean air condition
- > MultiCon PC controller with simulation, network and software upgrade options
- > Intuitive drag-and-drop-based software

Available as NGS Solution bundle with specific software license, dispensing tools, accessories and consumables.

- \*1 Available only with 5073I
- \*2 Already included 5073t



### epMotion® 5075

The epMotion 5075 is the ideal solution for various liquid handling demands. It offers the same outstanding accuracy and precision as epMotion 5070 & 5073. The available options make the 5075 an excellent and most flexible device for applications such as NGS library preparation, PCR and qPCR setup, magnetic-bead-based and filter-based purification, cell-based assays or any routine pipetting tasks.

#### Product Feature Highlights epMotion 5075

- > Up to 15 worktable positions
- > Volume range 0.2 to 1,000  $\mu L$  (depending on used dispensing tools)
- > Automatic tool exchange for 4 tools
- > Option for gripper, 1-3 thermal modules, Eppendorf ThermoMixer® and vacuum station
- > Optional UV lamp and air filter system for decontamination and clean air condition
- > MultiCon PC controller with simulation, network and software upgrade options
- > Intuitive drag-and-drop-based software

Available as NGS Solution bundle with specific software license, dispensing tools, accessories and consumables.



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### The Eppendorf PhysioCare Concept®

The mission of Eppendorf has always been to improve the living conditions of our customers. Nowadays, where people spend a lot of their time at work, the ergonomics of their tools and the whole work environment is becoming more important for your well-being. Thus the development of each Eppendorf pipette is based on three spheres that support the health of our customers.







#### The User:

The PhysioCare Concept guarantees an ergonomic design and an optimized product performance according to the needs of the individual.

#### The Lab:

The PhysioCare Concept allows the uncomplicated integration of instruments in the lab as well as adhering to its specific requirements.

#### The Laboratory Workflow:

The PhysioCare Concept ensures general support to enhance processes around the lab and improve the results of the whole organization.



### Supporting You – Eppendorf Services



Service



Service



Preventive Maintenance







Repair Service

**Application** Support



Training / Webinar

At Eppendorf, we are committed to providing reliable services to help you maintain premium performance, and maximum safety of your Eppendorf instruments. Our carefully designed service solutions are performed by our dedicated Application, Training and Technical Service teams worldwide.

Especially the precision and accuracy of pipettes and dispensing tools of semi-/automated liquid handling devices are important for the quality and reproducibility of your work results. With our service portfolio we offer you a range of quality maintenance and qualification services for different user requirements.

#### **Pipette Calibration Services**

Pipettes are precision instruments, and require regular maintenance and checks to stay in peak performance. Therefore, regular maintenance, calibration, and adjustment services by Eppendorf will help identify potential issues, and assure your pipettes and dispensers continue to generate reproducible results. Our globally available pipette service portfolio follows strict international quality standards for calibration.

#### **Liquid Handling Training and Webinars**

The user experience is also very important for achieving good pipetting results. In our most popular training you will learn about the principles of pipetting ergonomics, correct pipetting techniques, routine maintenance and pipette calibration.

#### epMotion® 96 Services

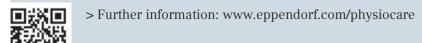
Maintaining and verifying your semi-automated pipette accuracy and precision is highly recommended to make sure your system still dispenses according to the manufacturer specifications. In the end you will receive assured results with your downstream applications and your valuable samples and reagents.

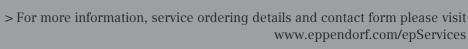
#### epMotion® Services

With our global epMotion® Service Agreements from cost-efficient to all-inclusive care packages and our Application Implementation Services we take the load off your shoulders by assuring consistent performance, continuous productivity and a long service life.











# Eppendorf Research® plus

Eppendorf Research® plus, single-channel, variable volume\*1

Volume range	Color code	Volume	System	atic error*2	Rando	om error*2	Order no.
0.1-2.5 μL	dark gray	0.1 μL	±48.0%	±0.048 μL	±12.0%	±0.012 μL	3123 000 012
	(for epT.I.P.S.® 10 μL)	0.25 μL	±12.0%	±0.03 μL	±6.0%	±0.015 μL	
		1.25 μL	±2.5%	±0.031 μL	±1.5%	±0.019 μL	
		2.5 μL	±1.4%	±0.035 μL	±0.7%	±0.018 μL	
0.5-10 μL	medium gray	0.5 μL	±8.0%	±0.04 μL	±5.0%	±0.025 μL	3123 000 020
	(for epT.I.P.S.® 20 μL)	1 μL	±2.5%	±0.025 μL	±1.8%	±0.018 μL	
		5 μL	±1.5%	±0.075 μL	±0.8%	±0.04 μL	
		10 μL	±1.0%	±0.1 μL	±0.4%	±0.04 μL	
2-20 μL	light gray	2 μL	±5.0%	±0.1 μL	±1.5%	±0.03 μL	3123 000 098
	(for epT.I.P.S.® 20 μL L)	10 μL	±1.2%	±0.12 μL	±0.6%	±0.06 μL	
		20 μL	±1.0%	±0.2 μL	±0.3%	±0.06 μL	
2-20 μL	yellow	2 μL	±5.0%	±0.1 μL	±1.5%	±0.03 μL	3123 000 039
	(for epT.I.P.S.® 200 μL)	10 μL	±1.2%	±0.12 μL	±0.6%	±0.06 μL	
		20 μL	±1.0%	±0.2 μL	±0.3%	±0.06 μL	
10-100 μL		10 μL	±3.0%	±0.3 μL	±1.0%	±0.1 μL	3123 000 047
		50 μL	±1.0%	±0.5 μL	±0.3%	±0.15 μL	
		100 μL	±0.8%	±0.8 μL	±0.2%	±0.2 μL	
20-200 μL		20 μL	±2.5%	±0.5 μL	±0.7%	±0.14 μL	3123 000 055
		100 μL	±1.0%	±1.0 μL	±0.3%	±0.3 μL	
		200 μL	±0.6%	±1.2 μL	±0.2%	±0.4 μL	
30-300 μL	orange	30 μL	±2.5%	±0.75 μL	±0.7%	±0.21 μL	3123 000 101
	(for epT.I.P.S.® 300 μL)	150 μL	±1.0%	±1.5 μL	±0.3%	±0.45 μL	
		300 μL	±0.6%	±1.8 μL	±0.2%	±0.6 μL	
100–1,000 μL	blue	100 μL	±3.0%	±3.0 μL	±0.6%	±0.6 μL	3123 000 063
	(for epT.I.P.S.® 1,000 μL)	500 μL	±1.0%	±5.0 μL	±0.2%	±1.0 μL	
		1,000 μL	±0.6%	±6.0 μL	±0.2%	±2.0 μL	
0.25-2.5 mL	red	0.25 mL	±4.8%	±0.012 mL	±1.2%	±0.003 mL	3123 000 144
	(for epT.I.P.S. <sup>®</sup> 2.5 mL)	1.25 mL	±0.8%	±0.01 mL	±0.2%	±0.0025 mL	
		2.5 mL	±0.6%	±0.015 mL	±0.2%	±0.005 mL	
0.5-5 mL	violet	0.5 mL	±2.4%	±0.012 mL	±0.6%	±0.003 mL	3123 000 071
	(for epT.I.P.S. <sup>®</sup> 5 mL)	2.5 mL	±1.2%	±0.03 mL	±0.25%	±0.006 mL	
		5 mL	±0.6%	±0.03 mL	±0.15%	±0.008 mL	
1–10 mL	turquoise	1 mL	±3.0%	±0.03 mL	±0.6%	±0.006 mL	3123 000 080
	(for epT.I.P.S.® 10 mL)	5 mL	±0.8%	±0.04 mL	±0.2%	±0.01 mL	
		10 mL	±0.6%	±0.06 mL	±0.15%	±0.015 mL	

<sup>\*1</sup> Eppendorf Research® plus single-channel variable volume pipettes up to 1,000 µL include an epT.I.P.S.® box. The 5 mL and 10 mL versions include an epT.I.P.S.® sample bag. \*2 The error data, according to EN ISO 8655, only apply if original Eppendorf tips are used. Technical specifications are subject to change. Errors and omissions excepted.

# Eppendorf Research® plus

Volume range	Channels	ti-channel, variable volume*1  Color code	Volume	Volume		Systematic error*2		Random error*2		Order no. 12-channel	Order no. 16-channel	Order no. 24-channel	
				1	_				Cone o	listance	Cone o	istance	
									9 mm	9 mm	4.5 mm	4.5 mm	
0.5–10 μL		medium gray	0.5 μL		±12.0%	±0.06 μL	±8.0%	±0.04 μL	3125 000 010	3125 000 028	_	_	
		(for epT.I.P.S.® 20 μL)	1 μL		±8.0%	±0.08 μL	±5.0%	±0.05 μL					
			5 μL		±4.0%	±0.2 μL	±2.0%	±0.1 μL					
			10 μL		±2.0%	±0.2 μL	±1.0%	±0.1 μL					
10–100 μL		yellow	10 μL		±3.0%	±0.3 μL	±2.0%	±0.2 μL	3125 000 036	3125 000 044	_	_	
		(for epT.I.P.S.® 200 μL)	50 μL		±1.0%	±0.5 μL	±0.8%	±0.4 μL					
			100 μL		±0.8%	±0.8 μL	±0.3%	±0.3 μL					
30–300 μL	:0-300 μL	orange	30 μL		±3.0%	±0.9 μL	±1.0%	±0.3 μL	3125 000 052	3125 000 060	_	_	
	(for epT.I.P.S.® 300 μL)	150 μL		±1.0%	±1.5 μL	±0.5%	±0.75 μL						
		_	300 μL		±0.6%	±1.8 μL	±0.3%	±0.9 μL					
50-1,200 μL		■ dark green	120 μL		±6.0%	±7.2 μL	±0.9%	±1.08 μL	3125 000 214	3125 000 222	_	_	
		(for epT.I.P.S.R 1,250 μL)	600 μL		±2.7%	±16.2 μL	±0.4%	±2.4 μL					
			1.200 μL		±1.2%	±14.4 μL	±0.3%	±3.6 μL					
1–100 μL	16-channel	3 1	1–20 μL	_1 μL	±12%	±0.12 μL	±8%	±0.08 μL	_	_	3125 000 079	_	
	(for epT.I.P.S. <sup>®</sup> 384 20 μL)	(for epT.I.P.S.® 384 20 μL)		2 μL	±8%	±0.16 μL	±5%	±0.1 μL					
				10 μL	±4%	±0.4 μL	±2%	±0.2 μL					
			_	20 μL	±2%	±0.4 μL	±1%	±2.0 μL					
		light yellow	5-100 μL	5 μL	±6%	±0.3 μL	±4%	±0.2 μL		3125 000 095	_		
		(for epT.I.P.S.® 384 100 μL)		10 μL	±3%	±0.3 μL	±2%	±0.2 μL					
				50 μL	±1.2%	±0.6 μL	±0.8%	±0.4 μL					
				100 μL	±1%	±1 μL	±0.6%	±0.6 μL					
	24-channel	light pink	1–20 μL	_1 μL	±12%	±0.12 μL	±8%	±0.08 μL	_	_	_	3125 000 08	
		(for epT.I.P.S. <sup>®</sup> 384 20 μL)		2 μL	±8%	±0.16 μL	±5%	±0.1 μL					
				_10 μL	±4%	<u>±0.4 μL</u>	±2%	±0.2 μL					
		_		20 μL	±2%	<u>±0.4 μL</u>	±1%	<u>±0.2 μL</u>					
		light yellow	5-100 μL	5 μL	±6%	±0.3 μL	±4%	<u>±0.2 μL</u>	_	_	_	3125 000 10	
		(for epT.I.P.S. <sup>®</sup> 384 100 μL)		_10 μL	±3%	±0.3 μL	±2%	±0.2 μL					
				50 μL	±1.2%	±0.6 μL	±0.8%	±0.4 μL					
				100 μL	±1%	<u>±1 μL</u>	±0.6%	±0.6 μL					

<sup>\*1</sup> Eppendorf Research® plus multi-channel variable volume pipettes include an epT.I.P.S.® box.

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# Eppendorf Research® plus

Eppendorf Research® plus, single-channel, fixed volume

Volume	Color code	Sys	tematic error*1	R	andom error*1	Order no.
10 μL	medium gray (for epT.I.P.S.® 20 μL)	±1.2%	±0.12 μL	±0.6%	±0.06 μL	3124 000 016
20 μL	light gray (for epT.I.P.S.® 20 μL L)	±0.8%	±0.16 μL	±0.3%	±0.06 μL	3124 000 032
10 μL	yellow	±1.2%	±0.12 μL	±0.6%	±0.06 μL	3124 000 024
20 μL	(for epT.I.P.S.® 200 μL)	±1.0%	±0.2 μL	±0.3%	±0.06 μL	3124 000 040
25 μL		±1.0%	±0.25 μL	±0.3%	±0.08 μL	3124 000 059
50 μL		±0.7%	±0.35 μL	±0.3%	±0.15 μL	3124 000 067
100 μL		±0.6%	±0.6 μL	±0.2%	±0.2 μL	3124 000 075
200 μL		±0.6%	±1.2 μL	±0.2%	±0.4 μL	3124 000 083
200 μL	blue	±0.6%	±1.2 μL	±0.2%	±0.4 μL	3124 000 091
250 μL	(for epT.I.P.S.® 1,000 μL)	±0.6%	±1.5 μL	±0.2%	±0.5 μL	3124 000 105
500 μL		±0.6%	±3.0 μL	±0.2%	±1.0 μL	3124 000 113
1,000 μL		±0.6%	±6.0 μL	±0.2%	±2.0 μL	3124 000 121

<sup>\*1</sup> The error data, according to EN ISO 8655, only apply if original Eppendorf tips are used. Technical specifications are subject to change. Errors and omissions excepted.

Eppendorf Research® plus 3-pack including 3x epT.I.P.S.® Box or Sample Bag and Eppendorf ballpoint pen						
<b>Option 1:</b> 0.5–10 μL, 10–100 μL, 100–1,000 μL	3123 000 900					
<b>Option 2:</b> 2–20 μL yellow, 20–200 μL, 100–1,000 μL	3123 000 918					
<b>Option 3:</b> 100–1,000 μL, 0.5–5 mL, 1–10 mL	3123 000 926					

Eppendorf Research® plus 6-pack with Pipette Carousel 2, including 6x epT.I.P.S.® Box and Eppendorf ballpoint pen	Order no.
0.1 – 2.5 µL, 0.5 – 10 µL, 2 – 20 µL yellow, 10 – 100 µL, 20 – 200 µL, 100 – 1,000 µL	3123 000 942

# Eppendorf Reference® 2

Eppendorf Reference® 2, single-channel, variable volume\*1

Volume range	Color code	Volume	Systen	natic error*2	Rand	om error*2	Order no.
0.1–2.5 μL	dark gray	 0.1 μL	±48.0%	±0.048 μL	±12.0%	±0.012 μL	4924 000 010
	(for epT.I.P.S.® 10 μL)	0.25 μL	±12.0%	±0.03 μL	±6.0%	±0.015 μL	•
		1.25 μL	±2.5%	±0.031 μL	±1.5%	±0.019 μL	•
		2.5 μL	±1.4%	±0.035 μL	±0.7%	±0.018 μL	•
0.5-10 μL	medium gray	 0.5 μL	±8.0%	±0.040 μL	±5.0%	±0.025 μL	4924 000 029
	(for epT.I.P.S.® 20 μL)	1 μL	±2.5%	±0.025 μL	±1.8%	±0.018 μL	•
			±1.5%	±0.075 μL	±0.8%	±0.04 μL	•
		10 μL	±1.0%	±0.10 μL	±0.4%	±0.04 μL	•
2-20 μL	light gray	2 μL	±3.0%	±0.06 μL	±1.5%	±0.03 μL	4924 000 037
	(for epT.l.P.S.® 20 μL L)	10 μL	±1.0%	±0.10 μL	±0.6%	±0.06 μL	•
		20 μL	±0.8%	±0.16 μL	±0.3%	±0.06 μL	•
 2–20 μL	yellow	2 μL	±5.0%	±0.10 μL	±1.5%	±0.03 μL	4924 000 045
	(for epT.I.P.S.® 200 μL)	10 μL	±1.2%	±0.12 μL	±0.6%	±0.06 μL	•
		20 μL	±1.0%	±0.2 μL	±0.3%	±0.06 μL	•
10-100 μL	<del></del>	10 μL	±3.0%	±0.3 μL	±0.7%	±0.07 μL	4924 000 053
		50 μL	±1.0%	±0.5 μL	±0.3%	±0.15 μL	•
		100 μL	±0.8%	±0.8 μL	±0.20%	±0.20 μL	
20-200 μL	<del></del>	20 μL	±2.5%	±0.5 μL	±0.7%	±0.14 μL	4924 000 061
		100 μL	±1.0%	<u>±1.0 μL</u>	±0.3%	±0.3 μL	•
		200 μL	±0.6%	±1.2 μL	±0.2%	±0.4 μL	
30-300 μL	orange	30 μL	±2.5%	±0.75 μL	±0.7%	±0.21 μL	4924 000 070
	(for epT.I.P.S.® 300 μL)	150 μL	±1.0%	±1.5 μL	±0.3%	±0.45 μL	
		300 μL	±0.6%	<u>±1.8 μL</u>	±0.2%	±0.6 μL	•
100–1,000 μL	■ blue	100 μL	±3.0%	±3.0 μL	±0.6%	±0.6 μL	4924 000 088
	(for epT.I.P.S. <sup>®</sup> 1,000 μL)	500 μL	±1.0%	±5.0 μL	±0.2%	±1.0 μL	
		1,000 μL	±0.6%	±6.0 μL	±0.2%	±2.0 μL	
0.25-2.5 mL	red	0.25 mL	±4.8%	±0.012 mL	±1.2%	±0.003 mL	4924 000 096
	(for epT.I.P.S.® 2.5 mL)	1.25 mL	±0.8%	±0.010 mL	±0.2%	±0.0025 mL	
		2.5 mL	±0.6%	±0.015 mL	±0.2%	±0.005 mL	
0.5-5 mL	violet	0.5 mL	±2.4%	±0.012 mL	±0.6%	±0.003 mL	4924 000 100
	(for epT.I.P.S.® 5 mL)	2.5 mL	±1.2%	±0.030 mL	±0.25%	±0.006 mL	_
		5.0 mL	±0.6%	±0.030 mL	±0.15%	±0.0075 mL	
1–10 mL	turquoise	1.0 mL	±3.0%	±0.030 mL	±0.6%	±0.006 mL	4924 000 118
	(for epT.I.P.S.® 10 mL)	5.0 mL	±0.8%	±0.040 mL	±0.2%	±0.010 mL	
		10.0 mL	±0.6%	±0.060 mL	±0.15%	±0.015 mL	

<sup>\*1</sup> Eppendorf Reference® 2 single-channel variable volume pipettes up to 1,000 µL include an epT.I.P.S.® box. The 2.5 mL, 5 mL and 10 mL versions include an epT.I.P.S.® sample bag. \*2 The error data, according to EN ISO 8655, only apply if original Eppendorf tips are used. Technical specifications are subject to change. Errors and omissions excepted.

# Eppendorf Reference® 2

Volume range	eference® 2, multi-channel, var Color code	Volume		atic error*2	Random error*2		Order no. 8-channel	well plates Order no. 12-channel
							Cone	distance
							9 mm	9 mm
0.5–10 μL	medium gray	0.5 μL	±12.0%	±0.06 μL	±8.0%	±0.04 μL	4926 000 018	4926 000 026
	(for epT.I.P.S.® 20 μL)	1 μL	±8.0%	±0.08 μL	±5.0%	±0.05 μL		
		5 μL	±4.0%	±0.2 μL	±2.0%	±0.1 μL		
		10 μL	±2.0%	±0.2 μL	±1.0%	±0.1 μL		
10-100 μL	yellow	10 μL	±3.0%	±0.3 μL	±2.0%	±0.2 μL	4926 000 034	4926 000 042
	(for epT.I.P.S. <sup>®</sup> 200 μL)	50 μL	±1.0%	±0.5 μL	±0.8%	±0.4 μL		
		100 μL	±0.8%	±0.8 μL	±0.3%	±0.3 μL		
30-300 μL	orange	30 μL	±3.0%	±0.9 μL	±1.0%	±0.3 μL	4926 000 050	4926 000 069
	(for epT.I.P.S.® 300 μL)	150 μL	±1.0%	±1.5 μL	±0.5%	±0.75 μL		
		300 μL	±0.6%	±1.8 μL	±0.3%	±0.9 μL		

Eppendorf Reference® 2, single-channel, fixed volume

Volume	Color code	Systematic error*2		Rai	ndom error*2	error*2 Order no.	
1 μL	■ dark gray	±2.5%	±0.025 μL	±1.8%	±0.018 μL	4925 000 014	
2 μL	(for epT.I.P.S. <sup>®</sup> 10 μL)	±2.0%	±0.04 μL	±1.2%	±0.024 μL	4925 000 022	
5 μL	medium gray	±1.2%	±0.06 μL	±0.6%	±0.03 μL	4925 000 030	
10 μL	(for epT.I.P.S.® 20 μL)	±1.0%	±0.1 μL	±0.5%	±0.05 μL	4925 000 049	
20 μL	light gray (for epT.I.P.S.® 20 μL L)	±0.8%	±0.16 μL	±0.3%	±0.06 μL	4925 000 065	
10 μL	yellow	±1.2%	±0.12 μL	±0.6%	±0.06 μL	4925 000 057	
20 μL	(for epT.I.P.S. <sup>®</sup> 200 μL)	±1.0%	±0.2 μL	±0.3%	±0.06 μL	4925 000 073	
25 μL		±1.0%	±0.25 μL	±0.3%	±0.075 μL	4925 000 081	
50 μL		±0.7%	±0.35 μL	±0.3%	±0.15 μL	4925 000 090	
100 μL		±0.6%	±0.6 μL	±0.2%	±0.2 μL	4925 000 103	
200 μL		±0.6%	±1.2 μL	±0.2%	±0.4 μL	4925 000 111	
200 μL	blue	±0.6%	±1.2 μL	±0.2%	±0.4 μL	4925 000 120	
250 μL	(for epT.I.P.S. <sup>®</sup> 1,000 μL)	±0.6%	±1.5 μL	±0.2%	±0.5 μL	4925 000 138	
500 μL	<del></del>	±0.6%	±3.0 μL	±0.2%	±1.0 μL	4925 000 146	
1,000 μL	<del></del>	±0.6%	±6.0 μL	±0.2%	±2.0 μL	4925 000 154	
2 mL	red	±0.6%	±0.012 mL	±0.2%	±0.004 mL	4925 000 162	
2.5 mL	(for epT.I.P.S.® 2.5 mL)	±0.6%	±0.015 mL	±0.2%	±0.005 mL	4925 000 170	
	0.0 10.1 1 1.11 1 1 1 1 1 1 1	TIRCAL					

<sup>\*1</sup> All Eppendorf Reference® 2 multichannel variable volume pipettes include an epT.I.P.S.® box.
\*2 The error data, according to EN ISO 8655, only apply if original Eppendorf tips are used. Technical specifications are subject to change. Errors and omissions excepted.

Eppendorf Reference® 2, 3-Pack, incl. 3x epT.I.P.S.® Box or Sample Bag and Eppendorf ballpoint pen						
<b>Option 1:</b> 0,5–10 μL, 10–100 μL, 100–1,000 μL	4924 000 908					
<b>Option 2:</b> 2–20 μL yellow, 20–200 μL, 100–1,000 μL	4924 000 916					
<b>Option 3:</b> 100–1,000 μL, 0.5–5 mL, 1–10 mL	4924 000 924					

<b>Eppendorf Reference</b> ® <b>2, 6-Pack with Pipette Carousel 2,</b> including 6x epT.I.P.S.® Box and Eppendorf ballpoint pen	Order no.
0.1 – 2.5 μL, 0.5 – 10 μL, 2 – 20 μL yellow, 10 – 100 μL, 20 – 200 μL, 100 – 1,000 μL	4924 000 940





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# Eppendorf Xplorer®

Eppendorf Xplorer®, single-channel, incl. charger

Volume range	Color code	Volume	Syste	matic error*	Rand	Order no.	
0.5-10 μL	dark gray	1 μL	±2.5 %	±0.025 μL	±1.8 %	±0.018 μL	4861 000 015
	(for epT.I.P.S.® 20 μL)	5 μL	±1.5 %	±0.075 μL	±0.8 %	±0.04 μL	_
		10 μL	±1.0 %	±0.1 μL	±0.4%	±0.04 μL	_
1–20 μL	light gray	2 μL	±5.0 %	±0.1 μL	±1.5 %	±0.03 μL	4861 000 017
	(for epT.I.P.S.® 20 μL)	10 μL	±1.2 %	±0.12 μL	±0.6 %	±0.06 μL	_
		20 μL	±1.0 %	±0.2 μL	±0.3 %	±0.06 μL	_
5–100 μL	yellow	10 μL	±2.0 %	±0.2 μL	±1.0 %	±0.1 μL	4861 000 023
	(for epT.I.P.S.® 200 μL)	50 μL	±1.0 %	±0.5 μL	±0.3 %	±0.15 μL	_
		100 μL	±0.8 %	±0.8 μL	±0.2 %	±0.2 μL	_
10-200 μL	yellow	20 μL	±2.5 %	±0.5 μL	±0.7 %	±0.14 μL	4861 000 027
	(for epT.I.P.S.® 200 μL)	100 μL	±1.0 %	±1.0 μL	±0.3 %	±0.3 μL	_
		200 μL	±0.6 %	±1.2 μL	±0.2 %	±0.4 μL	_
15-300 μL	orange	30 μL	±2.5 %	±0.75 μL	±0.7 %	±0.21 μL	4861 000 031
	(for epT.I.P.S.® 300 μL)	150 μL	±1.0 %	±1.5 μL	±0.3 %	±0.45 μL	_
		300 μL	±0.6 %	±1.8 μL	±0.2 %	±0.6 μL	_
50–1,000 μL	blue	100 μL	±3.0 %	±3 μL	±0.6 %	±0.6 μL	4861 000 040
	(for epT.I.P.S.® 1,000 μL)	500 μL	±1.0 %	±5 μL	±0.2 %	±1 μL	_
		1,000 μL	±0.6 %	±6 μL	±0.2 %	±2 μL	_
0.125-2.5 mL	red	250 μL	±4.8 %	±12 μL	±1.2 %	±3.0 μL	4861 000 044
	(for epT.I.P.S.® 2.5 mL)	1,250 μL	±0.8 %	±10 μL	±0.2 %	±2.5 μL	_
		2,500 μL	±0.6 %	±15 μL	±0.2 %	±5.0 μL	_
0.25-5 mL	violet	500 μL	±3.0 %	±15 μL	±0.6 %	±3 μL	4861 000 058
	(for epT.I.P.S.® 5 mL)	2,500 μL	±1.2 %	±30 μL	±0.3 %	±6.25 μL	_
		5,000 μL	±0.6 %	±30 μL	±0.15 %	±7.5 μL	_
0.5-10 mL	turquoise	1,000 μL	±3.0 %	±30 μL	±0.6 %	±6 μL	4861 000 066
	(for epT.I.P.S.® 10 mL)	5,000 μL	±0.8 %	±40 μL	±0.2 %	±10 μL	_
		10,000 μL	±0.6 %	±60 μL	±0.15 %	±15 μL	_

Volume range	Color code Volum		e Systematic error*		lume Systematic error*		Rando	m error*	Order no. 8-channel	Order no. 12-channel
								distance		
							9 mm	9 mm		
0.5–10 μL	medium gray	1 μL	±5.0 %	±0.05 μL	±3.0 %	±0.03 μL	4861 000 104	4861 000 112		
	(for epT.I.P.S.® 20 μL)	5 μL	±3.0 %	±0.15 μL	±1.5 %	±0.075 μL				
		10 μL	±2.0 %	±0.2 μL	±0.8 %	±0.08 μL				
5–100 μL	yellow	10 μL	±2.0 %	±0.2 μL	±2.0 %	±0.2 μL	4861 000 120	4861 000 139		
	(for epT.I.P.S. <sup>®</sup> 200 μL)	50 μL	±1.0 %	±0.5 μL	±0.8 %	±0.4 μL				
		100 μL	±0.8 %	±0.8 μL	±0.25 %	±0.25 μL				
15–300 μL	orange	30 μL	±2.5 %	±0.75 μL	±1.0 %	±0.3 μL	4861 000 147	4861 000 155		
	(for epT.I.P.S.® 300 μL)	150 μL	±1.0 %	±1.5 μL	±0.5 %	±0.75 μL				
		300 μL	±0.6 %	±1.8 μL	±0.25 %	±0.75 μL				
50–1,200 μL green (for epT.I.P.S.® 1,25	green	120 μL	±6.0 %	±7.2 μL	±0.9 %	±1.08 μL	4861 000 163	4861 000 171		
	(for epT.I.P.S.® 1,250 μL)	600 μL	±2.7 %	±16.2 μL	±0.4%	±2.4 μL				
		1,200 μL	±1.2 %	±14.4 μL	±0.3 %	±3.6 μL				

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# Eppendorf Xplorer® plus

Eppendorf Xplorer® plus, single-channel, incl. charger

	olume range Color code Volume		matic error*	Rande	Order no.	
medium gray	1 μL	±2.5 %	±0.025 μL	±1.8%	±0.018 μL	4861 000 708
(for epT.I.P.S.® 20 μL)	5 μL	±1.5 %	±0.075 μL	±0.8%	±0.04 μL	_
	10 μL	±1.0 %	±0.1 μL	±0.4 %	±0.04 μL	_
light gray	2 μL	±5.0 %	±0.1 μL	±1.5 %	±0.03 μL	4861 000 710
(for epT.I.P.S.® 20 μL)	10 μL	±1.2 %	±0.12 μL	±0.6%	±0.06 μL	_
	20 μL	±1.0 %	±0.2 μL	±0.3 %	±0.06 μL	_
yellow	10 μL	±2.0 %	±0.2 μL	±1.0 %	±0.1 μL	4861 000 716
(for epT.I.P.S.® 200 μL)	50 μL	±1.0 %	±0.5 μL	±0.3 %	±0.15 μL	_
	100 μL	±0.8 %	±0.8 μL	±0.2 %	±0.2 μL	_
yellow	20 μL	±2.5 %	±0.5 μL	±0.7 %	±0.14 μL	4861 000 720
(for epT.I.P.S.® 200 μL)	100 μL	±1.0 %	±1.0 μL	±0.3 %	±0.3 μL	_
	200 μL	±0.6 %	±1.2 μL	±0.2 %	±0.4 μL	_
orange	30 μL	±2.5 %	±0.75 μL	±0.7 %	±0.21 μL	4861 000 724
(for epT.I.P.S.® 300 μL)	150 μL	±1.0 %	±1.5 μL	±0.3 %	±0.45 μL	_
	300 μL	±0.6%	±1.8 μL	±0.2 %	±0.6 μL	_
blue	100 μL	±3.0 %	±3 μL	±0.6%	±0.6 μL	4861 000 732
(for epT.I.P.S.® 1,000 μL)	500 μL	±1.0 %	±5 μL	±0.2 %	±1 μL	_
	1,000 μL	±0.6%	±6 μL	±0.2 %	±2 μL	_
red	250 μL	±4.8 %	±12 μL	±1.2 %	±3.0 μL	4861 000 736
(for epT.I.P.S.® 2.5 mL)	1,250 μL	±0.8 %	±10 μL	±0.2 %	±2.5 μL	_
	2,500 μL	±0.6%	±15 μL	±0.2 %	±5.0 μL	_
violet	500 μL	±3.0 %	±15 μL	±0.6%	±3 μL	4861 000 740
(for epT.I.P.S.® 5 mL)	2,500 μL	±1.2 %	±30 μL	±0.3 %	±6.25 μL	_
	5,000 μL	±0.6%	±30 μL	±0.15 %	±7.5 μL	_
turquoise	1,000 μL	±3.0 %	±30 μL	±0.6 %	±6 μL	4861 000 759
(for epT.I.P.S.® 10 mL)	5,000 μL	±0.8 %	±40 μL	±0.2 %	±10 μL	_
	10,000 μL	±0.6 %	±60 μL	±0.15 %	±15 μL	_
	(for epT.I.P.S.® 20 μL)  light gray (for epT.I.P.S.® 20 μL)  yellow (for epT.I.P.S.® 200 μL)  yellow (for epT.I.P.S.® 200 μL)  orange (for epT.I.P.S.® 300 μL)  blue (for epT.I.P.S.® 1,000 μL)  red (for epT.I.P.S.® 2.5 mL)  violet (for epT.I.P.S.® 5 mL)	(for epT.I.P.S.® 20 μL)    light gray	(for epT.I.P.S.® 20 μL) 5 μL ±1.5 %  10 μL ±1.0 %  10 μL ±5.0 %  (for epT.I.P.S.® 20 μL) 10 μL ±1.2 %  20 μL ±1.0 %  10 μL ±2.0 %  (for epT.I.P.S.® 200 μL) 50 μL ±1.0 %  100 μL ±2.5 %  (for epT.I.P.S.® 200 μL) 100 μL ±2.5 %  (for epT.I.P.S.® 200 μL) 100 μL ±1.0 %  200 μL ±2.5 %  (for epT.I.P.S.® 300 μL) 150 μL ±1.0 %  30 μL ±2.5 %  (for epT.I.P.S.® 300 μL) 150 μL ±1.0 %  300 μL ±2.5 %  150 μL ±1.0 %  300 μL ±0.6 %  100 μL ±3.0 %  (for epT.I.P.S.® 1,000 μL) 500 μL ±1.0 %  1,000 μL ±0.6 %  1,000 μL ±0.6 %  1,250 μL ±4.8 %  (for epT.I.P.S.® 2.5 mL) 2,500 μL ±0.6 %  1,2500 μL ±3.0 %  1,2500 μL ±0.6 %  1,2500 μL ±3.0 %  1,2500 μL ±3.0 %  1,000 μL ±0.6 %  1,000 μL ±3.0 %  1,000 μL ±0.6 %  1,000 μL ±3.0 %	S   L   ±1.5 % ±0.075   μL   10   μL   ±1.0 % ±0.1   μL   ±1.0 % ±0.1   μL   ±1.2 % ±0.12   μL   ±1.2 % ±0.12   μL   ±1.2 % ±0.12   μL   ±1.2 % ±0.2   μL   ±1.0 % ±0.2   μL   ±1.0 % ±0.2   μL   ±1.0 % ±0.2   μL   ±1.0 % ±0.5   μL   ±1.0 % ±0.5   μL   ±1.0 % ±0.5   μL   ±0.8 % ±0.8   μL   ±0.6 % ±1.0   μL   ±1.0 % ±1.5   μL   ±1.0 % ±1.0 % ±1.0   ±1.0   ±1.0 % ±1.0   ±1.0	(for epT.I.P.S.® 20 μL)    5 μL	(for epT.I.P.S.® 20 μL)    5 μL

Eppendorf Xplo	rer® plus, 8/12-channel, incl. o			For 96-1	well plates					
Volume range	Color code	Volume System		Systematic error*		Systematic error*		om error*	Order no. 8-channel	Order no. 12-channel
							Cone	distance		
							9 mm	9 mm		
0.5-10 μL	medium gray	1 μL	±5.0%	±0.05 μL	±3.0 %	±0.03 μL	4861 000 767	4861 000 775		
	(for epT.I.P.S.® 20 μL)	5 μL	±3.0 %	±0.15 μL	±1.5 %	±0.075 μ				
		10 μL	±2.0 %	±0.2 μL	±0.8 %	±0.08 μL				
5–100 μL	yellow	10 μL	±2.0 %	±0.2 μL	±2.0 %	±0.2 μL	4861 000 783	4861 000 791		
	(for epT.I.P.S.® 200 μL)	50 μL	±1.0 %	±0.5 μL	±0.8 %	±0.4 μL				
		100 μL	±0.8%	±0.8 μL	±0.25 %	±0.25 μL	•			

±0.75 μL

±1.5 μL

±1.8 μL

±7.2 μL

±16.2 μL

±1.0 %

±0.5%

±0.25%

±0.9%

±0.4%

±0.3 %

±0.3 μL

±0.75 μL

±0.75 μL

±1.08 μL

±2.4 μL

±3.6 μL

4861 000 821 4861 000 830

±2.5%

±1.0 %

±0.6%

±6.0%

±2.7%

±1.2%

150 μL

120 μL

600 μL

	47 /24
Eppendort Xpiorer® pius	. 16-/24-channel, incl. charger

orange

50-1,200 μL

(for epT.I.P.S.® 300 μL)

(for epT.I.P.S.® 1,200 μL)

Eppendorf Xplorer® plus, 16-/24-channel, incl. charger					For 384-well plates				
Volume range	Channels	Color code	Volume	System	atic error*	Random error*		Order no. 16-channel	Order no. 24-channel
								Cone	listance
								4.5 mm	4.5 mm
1–20 μL	16	light pink	2 μL	±8.0 %	±0.16 μL	±5.0 %	±0.1 μL	4861 000 778	_
		(for epT.I.P.S.® 384	10 μL	±4.0 %	±0.4 μL	±2.0 %	±0.2 μL	-	
		20 μL)	20 μL	±2.0 %	±0.4 μL	±1.0 %	±0.2 μL	-	
5–100 μL	16	light yellow	10 μL	±3.0 %	±0.3 μL	±2.0 %	±0.2 μL	4861 000 792	_
		(for epT.I.P.S.® 384	50 μL	±1.2 %	±0.6 μL	±1.0 %	±0.4 μL	_	
		100 μL)	100 μL	±1.0 %	±1.0 μL	±0.6 %	±0.6 μL		
1–20 μL	24	light pink	2 μL	±8.0 %	±0.16 μL	±5.0 %	±0.1 μL	_	4861 000 779
		(for epT.I.P.S.® 384	10 μL	±4.0 %	±0.4 μL	±2.0 %	±0.2 μL	_	
		20 μL)	20 μL	±2.0 %	±0.4 μL	±1.0 %	±0.2 μL		
5–100 μL	24	light yellow	10 μL	±3.0 %	±0.3 μL	±2.0 %	±0.2 μL	_	4861 000 793
	(for epT.I.P.S.® 384	50 μL	±1.2 %	±0.6 μL	±0.8 %	±0.4 μL	_		
		100 μL)	100 μL	±1.0 %	±1.0 μL	±0.6 %	±0.6 μL		

<sup>\*</sup> The error data, according to EN ISO 8655, only apply if original Eppendorf tips are used. Technical specifications are subject to change. Errors and omissions excepted.



<sup>1,200</sup> μL ±14.4 μL \* The error data, according to EN ISO 8655, only apply if original Eppendorf tips are used. Technical specifications are subject to change. Errors and omiss

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# Eppendorf Pipette Manager

Description	Order no.
Pipette Manager, an external touch server enabling communication with connected electronic pipettes	1004 000 001
Eppendorf Xplorer® connect, WiFi module incl. battery for Eppendorf Xplorer	4861 000 970

Note: The Pipette Manager is not available worldwide. Please contact your Eppendorf Sales Representative for more information.

# Move It® Adjustable Tip Spacing Pipettes

### Eppendorf Research® plus Move It®, mechanical, multi-channel, variable volume

No. of channels	Color code	Volume	Order no.
4-channel	orange	30–300 μL	3125 000 150
	dark green	 120–1,200 μL	3125 000 184
6-channel	orange	30-300 μL	3125 000 168
	dark green	120–1,200 μL	3125 000 192
8-channel	light pink	1–20 μL	3125 000 117
	light yellow		3125 000 133
	orange	30-300 μL	3125 000 176
	dark green	120–1,200 μL	3125 000 206
12-channel	light pink	1–20 μL	3125 000 125
	light yellow	5–100 μL	3125 000 141

### Eppendorf Xplorer® plus Move It®, electronic, multi-channel, incl. charger

No. of channels	Color code	Volume	Order no.
4-channel	orange	15–300 μL	4861 000 816
	green	50–1,200 μL	4861 000 833
6-channel	orange	15–300 μL	4861 000 817
	green	50–1,200 μL	4861 000 834
8-channel	light pink	1–20 μL	4861 000 781
	light yellow	5–100 μL	4861 000 794
	orange	15–300 μL	4861 000 818
	green	50–1,200 μL	4861 000 835
12-channel	light pink	1–20 μL	4861 000 782
	light yellow	5–100 μL	4861 000 795









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	Type of tip	S		epT.I.P.S.®		epT.I.P.	S.® 384
	Electronic Pipette		Eppendorf Xplorer® plus Move It®			Eppendorf Xplorer® plus Move It®	
Vessel Format	Mechanical Pipette		Eppendorf Research® plus N			Eppendorf Research® plus Mov	
	No. of cha	nnels	4	6	8	8	12
	Volume (µ	L)	300 / 1,200	300 / 1,200	300 / 1,200	20 / 100	20 / 100
	Tip distance	ce (mm)	9-33	9-20	9-14	4.5-14	4.5-9
384 Wells	]] 4.5					•	•
96 Wells / PCR Tul	e Strips						
	).] ,		•	•	•	•	•
48 Wells							
	13		•	•	•	•	
24 Wells							
	19		•	•			
12 Wells							
	26		•				
1.5/2.0/5.0/15 mL Tubes	-	Fitting Eppendorf Racks:					
	21-33	> 5.0 mL > Cuvette Rack > Storage Box 5 x 5	•				
1.5 / 2.0 / 5.0 / 15 mL Tubes	-	Fitting Eppendorf Racks:					
	— 15-20	> 1.5 / 2.0 mL > CryoStorage Vial Rack > Storage Box 8 x 8	•	•			
0.5 / 1.5 / 2.0 mL Tubes		Fitting Eppendorf Racks:					
	9-14	> 0.5 mL > Storage Box 9 x 9 > Storage Box 10 x 10	•	•	•	•	
Agarose gel	~ 4.5-9		•	•	•		•

\* Limited suitability due to volume and size of tips



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# Varipette® 4720

Description	Order no.
Varipette® 4720, with continuous volume selection in the 1–10 mL range	4720 000 011
Varitips® P, to remove liquid from smaller vessels, 100 pieces	0030 048 130
Varitips® S Starter Kit, consisting of 100 Maxitips, 10 dispensing parts, 10 valves	0030 050 525
Varitips® S dispensing part, 30 pieces	0030 050 533
Varitips® S, graduated, 200 pieces	0030 050 568
Varitips® S valve, 100 pieces	0030 050 541

# Eppendorf Pipette Holder System

Description	Order No.
Pipette Carousel 2, for 6 Eppendorf Research®, Eppendorf Research® plus, Eppendorf Reference®, Eppendorf Reference® 2 or Biomaster®, additional pipette holders are optionally available	3116 000 015
Charger Carousel 2, for 6 Eppendorf Xplorer® or Eppendorf Xplorer® plus, mains/power adapter included, additional charger shells and pipette holders are optionally available	3116 000 023
Charger Stand 2, for one Eppendorf Xplorer® or Eppendorf Xplorer® plus, operated with mains/power adapter supplied with Eppendorf Xplorer® or Eppendorf Xplorer® plus	3116 000 031
Charger Stand 2, for one Multipette® E3/E3x or Multipette® stream/Xstream, operated with mains/power adapter supplied with Multipette® E3/E3x or Multipette® stream/Xstream	3116 000 040
Pipette Stand 2, for one Multipette® M4, without charging functionality, additional pipette holders are optionally available	3116 000 058
Pipette Holder 2, for one Eppendorf Research®, Eppendorf Research® plus, Eppendorf Reference®, Eppendorf Reference® 2 or Biomaster®, for Pipette Carousel 2 and Charger Carousel 2 or wall mounting, sticky tape included	3116 000 112
Pipette Holder 2, for one Eppendorf Xplorer® or Eppendorf Xplorer® plus, for Pipette Carousel 2 or wall mounting, sticky tape included, without charging functionality	3116 000 120
Pipette Holder 2, for one Multipette® E3/E3x or Multipette® stream/Xstream, for Pipette Carousel 2 or wall mounting, sticky tape included, without charging functionality	3116 000 139
Pipette Holder 2, for one Multipette® M4, for Pipette Carousel 2 and Charger Carousel 2 or wall mounting, sticky tape included, without charging functionality	3116 000 147
Charger Shell 2, for one Eppendorf Xplorer® or Eppendorf Xplorer® plus, for Charger Carousel 2, with charging functionality	3116 602 007
Charger Shell 2, for one Multipette® E3/E3x or Multipette® stream/Xstream, for Charger Carousel 2, with charging functionality	3116 603 003

# Multipette® M4

Description	Order no.
Multipette® M4, incl. 1x Combitips® advanced 2.5 mL tip and holder for wall mounting or pipette carousel, $1 \mu L - 10 mL$	4982 000 012
Multipette® M4 Starter Kit, incl. Combitips® advanced Rack, Combitips® advanced assortment pack (1 tip of each size) and holder, 1 $\mu$ L – 10 mL	4982 000 314

### Multipette® E3/E3x

Description	Order no.
Multipette® E3, incl. charging cable and Combitips® advanced assortment pack (1 tip of each size), 1 μL – 50 mL	4987 000 010
Multipette® E3 bundle with charger stand, incl. charging cable, Charger Stand 2 and Combitips® advanced assortment pack, 1 μL – 50 mL	4987 000 371
Multipette® E3x, incl. charging cable and Combitips® advanced assortment pack (1 tip of each size), 1 μL – 50 mL	4987 000 029
Multipette® E3x bundle with charger stand, incl. charging cable, Charger Stand 2 and Combitips® advanced	4987 000 380

# Combitips® advanced

bags box of 100 pcs. (individually wrapped)    Simple   Forensic DNA Grade
0030 089 618 –
0030 089 626 –
0030 089 634 –
0030 089 642 0030 089 855
0030 089 650 0030 089 863
0030 089 669 0030 089 871
0030 089 677 –
0030 089 685 –
0030 089 693 –
<del>-</del> -
<del></del>
0030 089 731
0030 089 740

<sup>\*1</sup> PCR clean: batch tested and certified to be free of: human DNA, DNase, RNase, PCR inhibitors
\*2 Eppendorf Biopur®: batch tested and certified to be sterile and free of: human and bacterial DNA, DNase, RNase, PCR inhibitors, ATP, pyrogen
\*3 4 boxes of 25 pcs. each. Each box contains an adapter.







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# Easypet® 3

Description	Order no.
Easypet® 3, incl. power supply and Lithium-polymer rechargeable battery, wall mount, shelf stand, and two membrane filters (unsterile) 0.45 μm	4430 000 018
Membrane filter, sterile, 0.45 μm, set of 5	4421 601 009
Membrane filter, sterile, 0.2 μm, pack of 5	4430 606 005
Lithium-polymer rechargeable battery for Easypet® 3	4430 605 009
Pipette Holder, for one Eppendorf Easypet® 3, for wall mounting, sticky tape included	4430 604 002

# Pipet Helper®

Description	Order no.
Pipet Helper®, 0.1–100 mL	4423 000 010
Membrane filter, for Pipet Helper®, 3 μm, not sterile, (pack of 10)	4423 601 014

# **Eppendorf Serological Pipets**

Description	Volume	Color code	Packaging	Order no.
Eppendorf Serological Pipets,	1.0 mL	Yellow	800 pcs. (4 × 200 pcs.)	0030 127 692
sterile, free of detectable pyrogens,	2.0 mL	Green	600 pcs. (4 × 150 pcs.)	0030 127 706
DNA, RNase and DNase. Non-cytotoxic. Individually blister- wrapped	5.0 mL	Blue	400 pcs. (4 × 100 pcs.)	0030 127 714
	10.0 mL	Orange	400 pcs. (4 × 100 pcs.)	0030 127 722
	25.0 mL	Red	200 pcs. (4 × 50 pcs.)	0030 127 730
	50.0 mL	Violet	160 pcs. (4 × 40 pcs.)	0030 127 749
	-			

# Varispenser® 2/2x

Volume	Thread	Thread adapter incl.	Order no.
Varispenser® 2			
0.2–2 mL	GL 45	GL 25, GL 28/ S 28, GL 32, GL 38, S 40	4966 000 010
0.5–5 mL	GL 45	GL 25, GL 28/ S 28, GL 32, GL 38, S 40	4966 000 029
1–10 mL	GL 45	GL 25, GL 28/ S 28, GL 32, GL 38, S 40	4966 000 037
2.5–25 mL	GL 45	GL 32, GL 38, S 40	4966 000 045
5–50 mL	GL 45	GL 32, GL 38, S 40	4966 000 053
10-100 mL	GL 45	GL 32, GL 38, S 40	4966 000 061
Varispenser® 2x			
0.2–2 mL	GL 45	GL 25, GL 28/ S 28, GL 32, GL 38, S 40	4967 000 014
0.5–5 mL	GL 45	GL 25, GL 28/ S 28, GL 32, GL 38, S 40	4967 000 022
1–10 mL	GL 45	GL 25, GL 28/ S 28, GL 32, GL 38, S 40	4967 000 030
2.5–25 mL	GL 45	GL 32, GL 38, S 40	4967 000 049
5–50 mL	GL 45	GL 32, GL 38, S 40	4967 000 057
10-100 mL	GL 45	GL 32, GL 38, S 40	4967 000 065

# Eppendorf Top Buret

Description	Volume	With three adapters for outer diameter (mm)	Order no.
Eppendorf Top Buret M	2.5 mL per rotation	32, 38, 40	4965 000 017
Eppendorf Top Buret H	5.0 mL per rotation	32, 38, 40	4965 000 025

# epMotion®

Description	order no.
epMotion® 96	
epMotion® 96, semi-automated electronic pipette for parallel 96 channel microplate processing, 0.5–300 μL	5069 000 012
epMotion® 96, with 2-position slider, semi-automated electronic pipette for parallel 96 channel microplate processing,	5069 000 110
0.5–300 μL	
epMotion® 96xl, semi-automated electronic pipette for parallel 96 channel microplate processing, 5–1,000 μL	5069 000 217
epMotion® 96xl, with 2-position slider, semi-automated electronic pipette for parallel 96 channel microplate processing,	5069 000 314
5–1,000 μL	
epMotion® 5070	
epMotion® 5070 MultiCon, completely contained housing, system incl. Eppendorf MultiCon, epBlue software, keyboard,	5070 000 282
mouse, waste box, 100-240 V ±10 %/50-60 Hz ±5 %	
epMotion® 5070 MultiCon PCR Solution, includes MultiCon PC, dispensing tool (TS 50), PCR specific accessories,	5070 000 948
100-240 V ±10 %/50-60 Hz ±5 %	
epMotion® 5073	
epMotion® 5073I, MultiCon PC, completely contained housing, epBlue software, keyboard, mouse,	5073 000 110
system for solid and liquid waste, 100–240 V/50–60 Hz	
epMotion® 5073t, MultiCon PC, completely contained housing, ThermoMixer, epBlue software, keyboard, mouse,	5073 000 111
system for solid and liquid waste, 100–240 V/50–60 Hz	
epMotion® 5073t NGS Solution, MultiCon PC, ThermoMixer, 3 dispensing tools, gripper, NGS specific accessories and con-	5073 000 112
sumables, epBlue software with Enhanced Feature Set 1, system for solid and liquid waste, 100–240 V/50–60 Hz	
epMotion® 5075	
epMotion® 5075I, MultiCon PC, completely contained housing, epBlue software, keyboard, mouse, system for solid and liquid	5075 000 041
waste, 100-240 V/50-60 Hz	
epMotion® 5075t, MultiCon PC, completely contained housing, ThermoMixer, epBlue software, keyboard, mouse,	5075 000 042
system for solid and liquid waste, 100–240 V/50–60 Hz	
epMotion® 5075v, MultiCon PC, completely contained housing, vacuum system with accessories, gripper, epBlue software,	5075 000 043
keyboard, mouse, system for solid and liquid waste, 100–240 V/50–60 Hz	
epMotion® 5075vt, MultiCon PC, completely contained housing, vacuum system with accessories, gripper, ThermoMixer,	5075 000 044
epBlue software, keyboard, mouse, system for solid and liquid waste, 100–240 V/50–60 Hz	
epMotion® 5075t NGS Solution, MultiCon PC, ThermoMixer, thermal module, 4 dispensing tools, gripper, NGS spe-	5075 000 045
cific accessories and consumables, epBlue software with Enhanced Feature Set 1, system for solid and liquid waste,	
100-240 V/50-60 Hz	
Power supply cables	
EU Power Cord, with EU-plug and C13 coupling, 2.5 m	0013 563 934
US Power Cord, with US-plug and C13 coupling, 2.5 m	0013 563 942
UK Power Cord, with UK-plug and C13 coupling, 2.5 m	0013 594 490
China Power Cord, with China-plug and C13 coupling, 2.5 m	0013 613 952
Australia Power Cord, with Australia-plug and C13 coupling, 2.5 m	0013 592 454

Order no.

38 <u>7</u> 2426

Description	Order no.
Dispensing tools	
Highly precise pipetting heads, for use in the tool holder of the epMotion® workstation. Each dispensi	ing tool is completely autoclavable at 121 °C,
1 bar for 20 min. A quality certificate for the measurement results accompanies each tool.	
TS 10, single-channel dispensing tool for the volume range 0.2–10 μL	5280 000 100
TS 50, single-channel dispensing tool for the volume range 1–50 μL	5280 000 010
TS 300, single-channel dispensing tool for the volume range 20–300 μL	5280 000 037
TS 1000, single-channel dispensing tool for the volume range 40–1,000 μL	5280 000 053
TM 10-8, 8-channel dispensing tool for the volume range 0.2–10 µL	5280 000 304
TM 50-8, 8-channel dispensing tool for the volume range 1–50 μL	5280 000 215
TM 300-8, 8-channel dispensing tool for the volume range 20–300 µL	5280 000 231
TM 1000-8, 8-channel dispensing tool for the volume range 40–1,000 µL	5280 000 258
Holder for 6 dispensing tools	5075 774 003



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