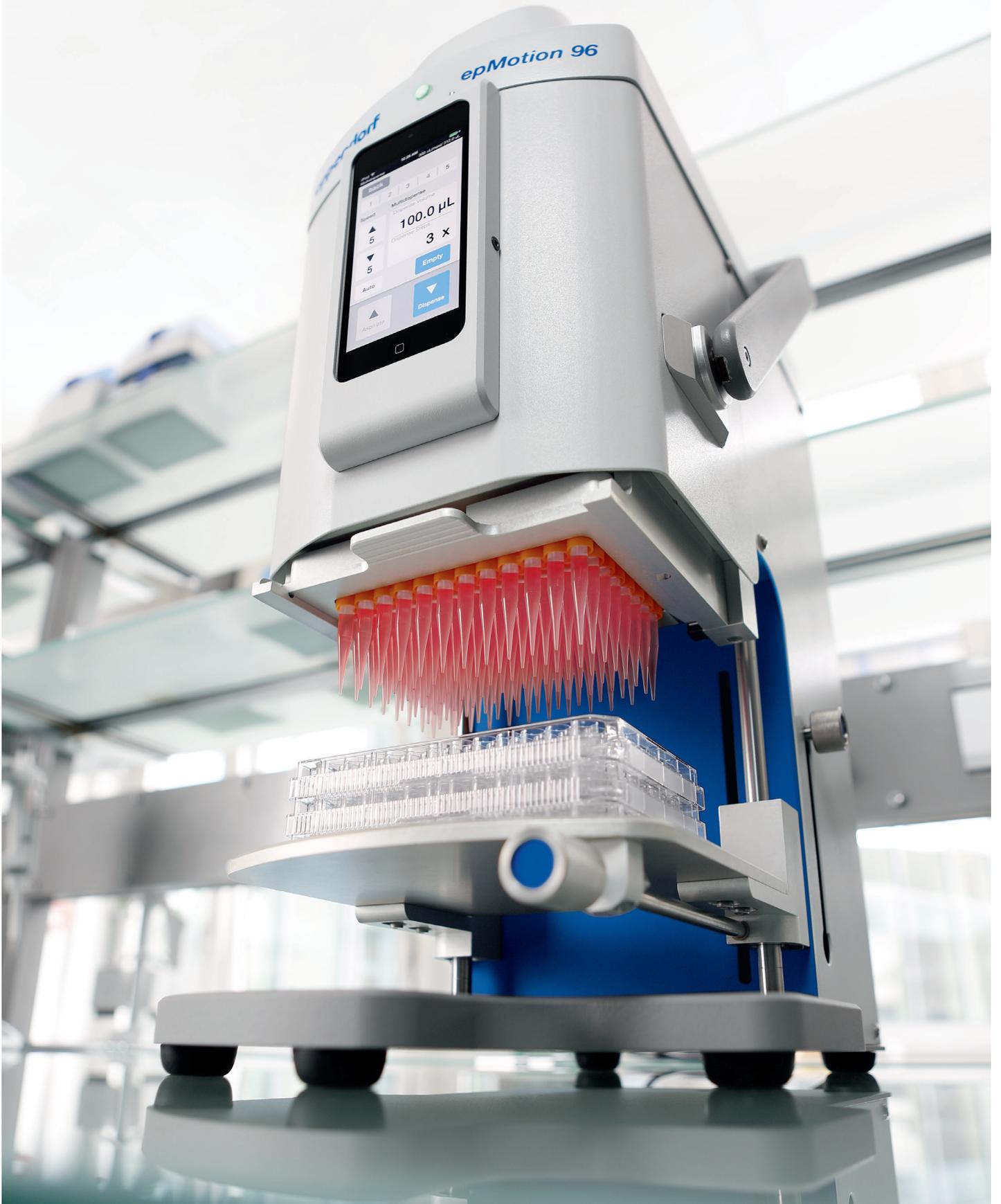


# 96 Well? Done!

Eppendorf *epMotion*® 96 – semi-automated electronic pipette for fast and precise 96 channel microplate processing



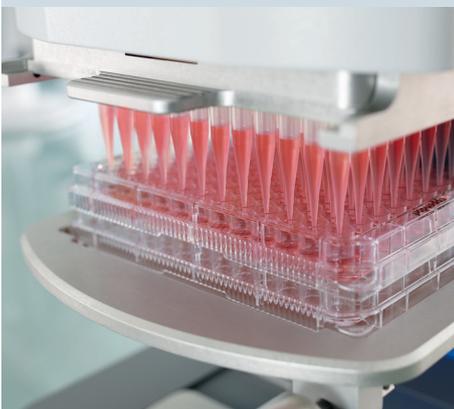
Try it and you will see how easy and fast your 96-well and 384-well plates get processed.

# »Increase your productivity and pipet whole 96-well plates at once. Just make it faster and more precise.«

The Eppendorf epMotion 96 is an easy to use bench top system for high precision pipetting in 96- and 384-well plates. As an affordable solution it overcomes the limits of manual multichannel pipetting. Its ergonomic design and intuitive handling makes epMotion 96 a great tool for anyone who needs fast and precise liquid handling in a 96-well format. Save time and money while getting better reproducibility of your results from cell based assays, ELISA, cell seeding, nucleic acid purification, plate reformatting, bead-based clean ups, or other applications.

## Simultaneous 96-well pipetting

- > Performs 12 times faster than 8 channel pipets
- > Electronic pipetting with parallel piston movement for better precision and reproducibility of results
- > Use tips column-wise (8, 16, 24, etc.) for serial dilutions and similar applications
- > Precision of < 3 % at 1  $\mu\text{L}$
- > Accuracy of < 2 % at 1  $\mu\text{L}$



## Ease of use

- > 0.5 to 300  $\mu\text{L}$  or 5 to 1000  $\mu\text{L}$  with one system without the need to change heads
- > Auto-detection of tip size
- > Possibility to use two tip sizes to maximize accuracy
- > Compact design to fit in a laminar flow hood



## Ergonomics

- > Intuitive and industry proven software concept
- > Convenient touch screen
- > Easy and rapid tip load- and reloading
- > Optional 2-position slider to toggle between source and destination
- > Reduced risk of repetitive stress injury (RSI)



# epMotion<sup>®</sup> 96: Fast and precise 96 ch

## Compact design

Small footprint, fits under laminar flow hood and can be easily moved between labs

## Control unit Apple<sup>®</sup> iPod<sup>®</sup>

High quality touch screen for convenient system control. Accessible by other iOS 9.3 and newer devices (iPhone<sup>®</sup>, iPod<sup>®</sup> via WiFi.

## Loading frame

For quick exchange of epT.I.P.S.<sup>®</sup> Motion reload tip trays

## Lifting table

Supports a variety of SBS-size labware such as micro plates, reservoirs, and Thermoadapters. 384-well plates can be pipetted by indexing (also available as 2-position slider)

## Manually lift plates up and lock in place

Easy/fast adjustments to different labware heights and filling levels



# 96-well microplate processing

## Tip attachment lever

Minimal force needed to attach tips to the 96 nose-cone array for ergonomic operation

## Auto-detect function for tip size

Convenient verification between different tip types allows for more accurate volume settings and better pipetting performance

## Height adjustment

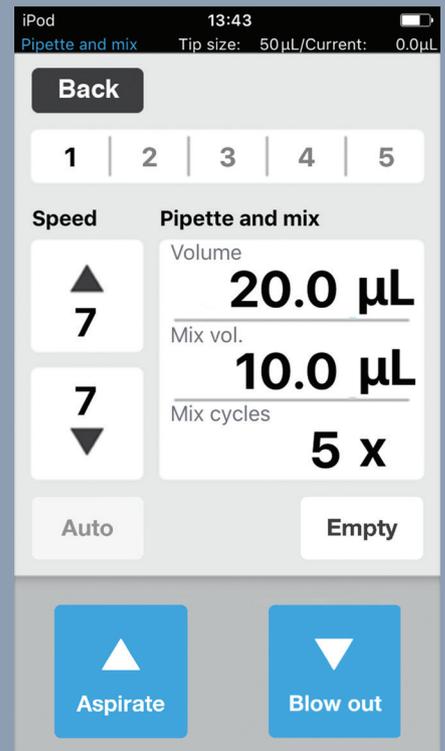
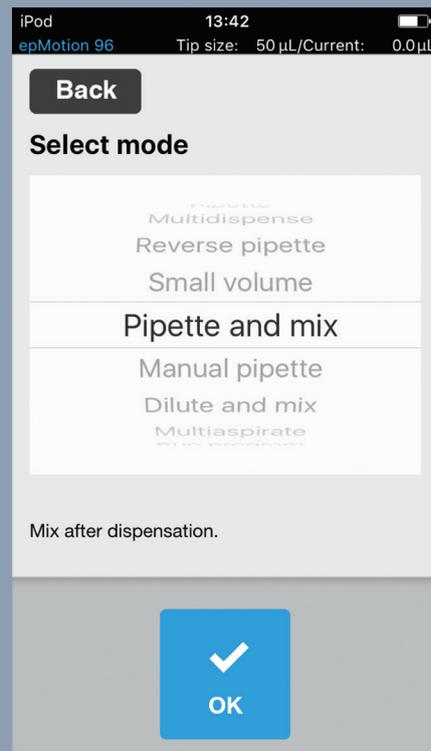
Possibility to pre-set labware heights in 2 positions for repetitive tasks or auto-pipetting mode

## Accessory plate

for handling 384-well plates by indexing with the lifting table

## Intuitive Operation

- > Software based on Eppendorf Xplorer® electronic pipettes provided as free Apple app
- > Intelligent, preset applications: aspiration, dilution, sequential dispense, multi dispensing, small volume prewetting, and reverse pipetting
- > Set individual parameters for aspiration or dispensing speed to match your current liquid class
- > Save frequently used volumes for quick programming
- > Possibility to program multi-step pipetting tasks for complex applications



## Applications

- > Replication and reformatting of microplates and deepwell plates
- > Cell seeding and media change
- > Reagent and compound addition
- > 384-wells by 4 times 96-well pipetting
- > Cell-based assays
- > ELISA handling (plate coating and wash)
- > Biochemical assays
- > Nucleic acid purification in 96-well format
- > Magnetic bead-based cleanups e.g. in NGS protocols
- > Serial dilutions

# Ease Your Workflow



- Optional: Remove tips or add tips from the reload rack (always work with full columns of tips).
- 1** Insert the appropriate tip type into the loading frame (0.5 – 50  $\mu$ L or 5 – 300  $\mu$ L for epMotion 96, 5 – 300  $\mu$ L or 10 – 1000  $\mu$ L for epMotion 96xl)
  - 2** Slide loading frame into epMotion 96 and apply lever to easily attach tips to the 96 nose-cone array
  - 3** Select mode, e.g. »Pipette + Mix«, and adjust plate on lifting table towards the tips (if 2-position slider is mounted, source or destination position is selected)
  - 4** Touch »Aspirate« to take liquid from source plate, change to destination plate and touch »Dispense«



## Related Consumables and Accessories



300 µL tips as reload system (color coded for easy volume identification)



50 µL tips as reload system (reduces plastic waste of tip boxes by 40 %)



Additional loading frame



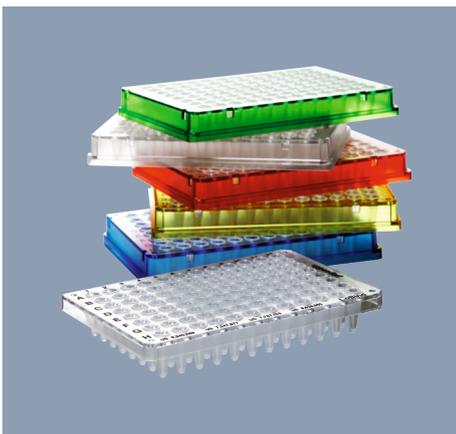
TipHolder for temporary storage of tip tray



Upgrade set 2-position slider for existing epMotion 96 systems



Thermoblock for PCR 96- and 384-well for temperature sensitive samples



Eppendorf Assay/Reader Microplates and Eppendorf twin.tec® PCR plates 96- and 384-well



Eppendorf Tip Tool for easy handling of tips

## Technical Specifications

	epMotion <sup>96</sup>		epMotion <sup>96xl</sup>
Dimension of device	Width: 9 in/22.9 cm Depth: 18 in/45.7 cm		Height: 23 in/57.6 cm 23 in
	Height: 21 in/53.3 cm		
Weight of device	42 lb/19 kg		44 lb/20 kg
Power supply	100-240 V ±10 %, 50-60 Hz ±5 %, 175 W (max. output)		
Compatible plate formats	96- and 384-well microplates, shallow and deepwell (<1.3 in/3.4 cm height)		
Controller*	Capacitive touch full color LCD (via Apple iPod device WiFi connected)		
Modes	Pipette, Multidispense, Multiaspirate, Pipette + Mix, Manual Pipette, Dilute + Mix, Reverse Pipetting, Small volume, Programming		
Pipetting technology	96 channel air displacement		
Volume range	<b>50 µL tips</b>	<b>300 µL tips</b>	<b>1000 µL tips</b>
	0.5 to 50 µL	5 to 300 µL	10 to 1000 µL

Performance	Volume	Systematic measurement error	Random measurement error
with epMotion <sup>96</sup>	1 µL (50 µL tips)	± 2%	< 3%
	10 µL (300 µL tips)	± 2%	< 3%
with epMotion <sup>96xl</sup>	5 µL (300 µL tips)	± 2%	< 3%
	10 µL (1000 µL tips)	± 2%	< 3%

\* Apple iPod controller must be ordered separately.

## Ordering information

Description	International Ordering no.
epMotion <sup>®</sup> 96, semi-automated electronic pipette for parallel 96 channel microplate processing (without iPod <sup>®</sup> controller), 0.5-300 µL	5069 000 012*
epMotion <sup>®</sup> 96 with 2-position slider, semi-automated electronic pipette for parallel 96 channel microplate processing (with 2 positions, without iPod <sup>®</sup> controller), 0.5-300 µL	5069 000 110*
epMotion <sup>®</sup> 96xl, semi-automated electronic pipette for parallel 96 channel microplate processing (without iPod <sup>®</sup> controller), 5-1000µL	5069 000 217*
epMotion <sup>®</sup> 96xl, with 2-position slider, semi-automated electronic pipette for parallel 96 channel microplate processing (without iPod <sup>®</sup> controller), 5-1000µL	5069 000 314*
iPod touch <sup>®</sup> 16 GB Blue (epMotion <sup>96</sup> controller)	
50 µL, Reloads, Filter, PCR clean and sterile, 12 x 2 trays with 96 tips	0030 014 529
50 µL, Reloads, Filter, PCR clean, 12 x 2 trays with 96 tips	0030 014 430
50 µL, Reloads, Eppendorf Quality <sup>™</sup> , 12 x 2 trays with 96 tips	0030 014 421
300 µL, Reloads, Filter, PCR clean and sterile, 12 x 2 trays with 96 tips	0030 014 537
300 µL, Reloads, Filter, PCR clean, 12 x 2 trays with 96 tips	0030 014 472
300 µL, Reloads, Eppendorf Quality <sup>™</sup> , 12 x 2 trays with 96 tips	0030 014 464
1000 µL, Reloads, Filter, PCR clean and sterile, 12 x 2 trays with 96 tips	0030 014 570
1000 µL, Reloads, Filter, PCR clean, 12 x 2 trays with 96 tips	0030 014 510
1000 µL, Reloads, Eppendorf Quality <sup>™</sup> , 12 x 2 trays with 96 tips	0030 014 502
Low dead volume reservoir 195 mL, single well with 96 cavities, PCR clean, 4 x 5 reservoirs	0030 126 556
Upgrade set 2-position slider, for upgrading existing epMotion <sup>®</sup> 96 from 1 to 2 positions	5069 074 008
Loading frame for epMotion <sup>®</sup> 96	5069 072 005
Adapter 384-well plate for epMotion <sup>®</sup> 96	5069 073 001
O-ring tool set, with separator, blade, hook, mounting cone, mounting cylinder	5069 858 505
O-ring black, 100 pieces	5069 867 504
TipTool	5285 000 000

\*Different plug and voltage variants are available. Contact your local Eppendorf representative or refer to [www.eppendorf.com](http://www.eppendorf.com) for more information.

Please visit [www.eppendorf.com/epServices](http://www.eppendorf.com/epServices) for available epMotion<sup>96</sup> performance plans service products.

Your local distributor: [www.eppendorf.com/contact](http://www.eppendorf.com/contact)

Eppendorf AG · Barkhausenweg 1 · 22339 Hamburg · Germany  
[eppendorf@eppendorf.com](mailto:eppendorf@eppendorf.com) · [www.eppendorf.com](http://www.eppendorf.com)

[www.eppendorf.com/automation](http://www.eppendorf.com/automation)