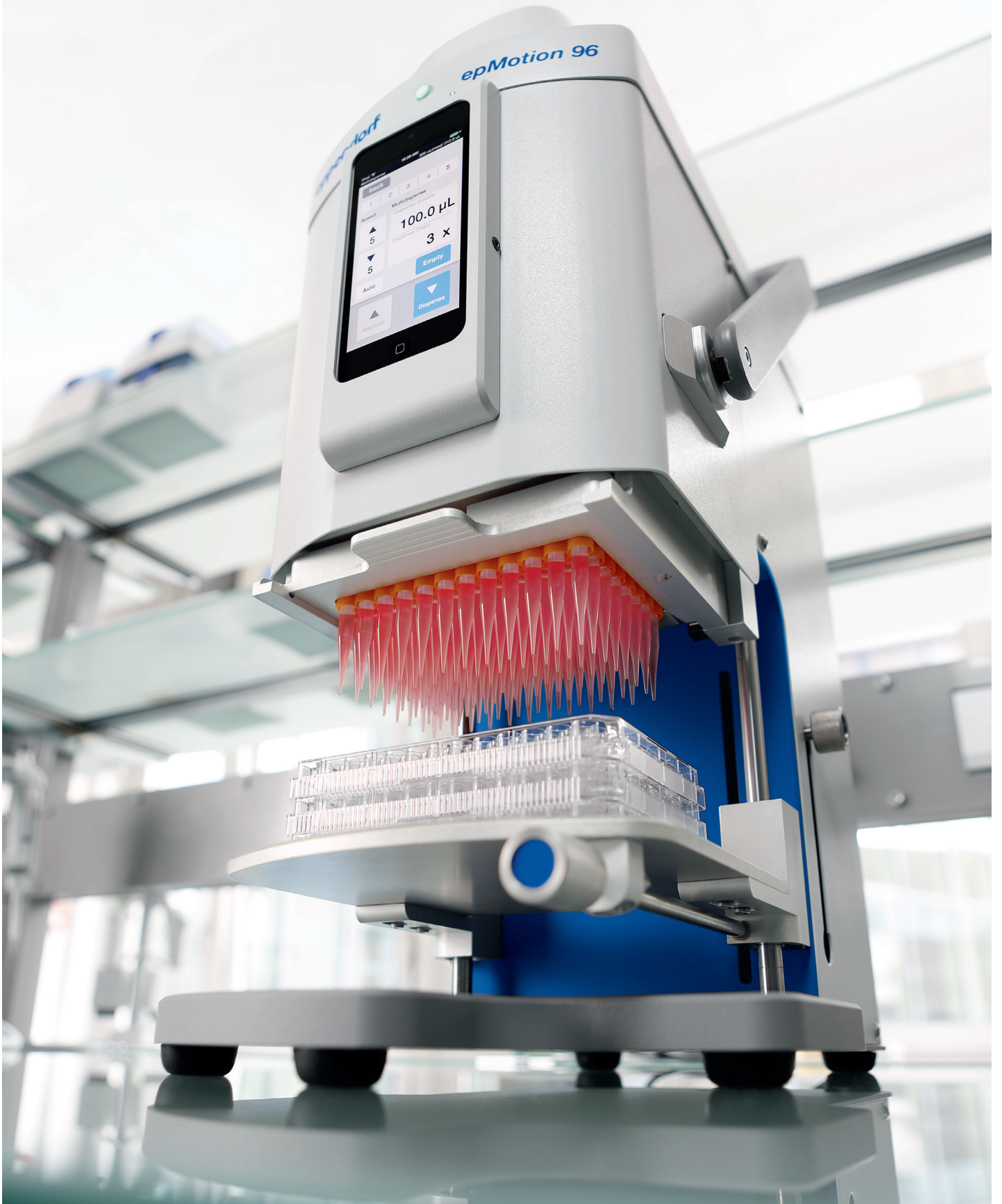# eppendorf

96 Well? Done!

Eppendorf ep*Motion*® 96—semi-automated electronic pipette for fast and precise 96 channel microplate processing
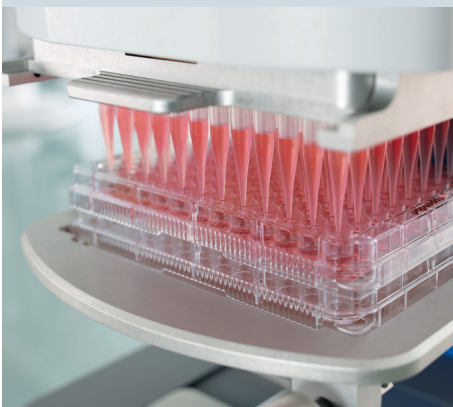
Try it and you will see how easy and fast your 96-well and 384-well plates get processed.

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

The new Eppendorf ep*Motion* 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 ep*Motion* 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 quantification, plate reformatting 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
> Precision of < 3 % at 1 µL
> Accuracy of < 2 % at 1 µL

Ease of use
> 0.5 to 300 µL with one system without the need to change heads
> Auto-detection of tip size
> Possibility to use 50 µL or 300 µL tips to maximize accuracy
> Compact design to fit under a laminar flow hood

Ergonomics
> Intuitive and industry proven software concept
> Convenient touch screen
> Easy and rapid tip load- & reloading
> Reduced risk of repetitive stress injury (RSI)

ep*Motion*® 96: One System—0.5 to 3

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

Control unit Apple® iPod®
High quality touch screen for convenient system control. Accessible by other iOS 7 devices (iPhone®, iPod®) via WiFi

Loading frame
For quick exchange of epT.I.P.S.® 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

Manually lift plates up and lock in place
Easy/fast adjustments to different labware heights and filling levels

00 μL

Intuitive Operation

> Software based on Eppendorf Xplorer® electronic pipettes
  provided as free Apple app
> Intelligent, preset applications: aspiration, dilution, sequential
  dispensing, multi dispensing
> 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

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
50 and 300 μL tips allows for more
accurate volume settings and better
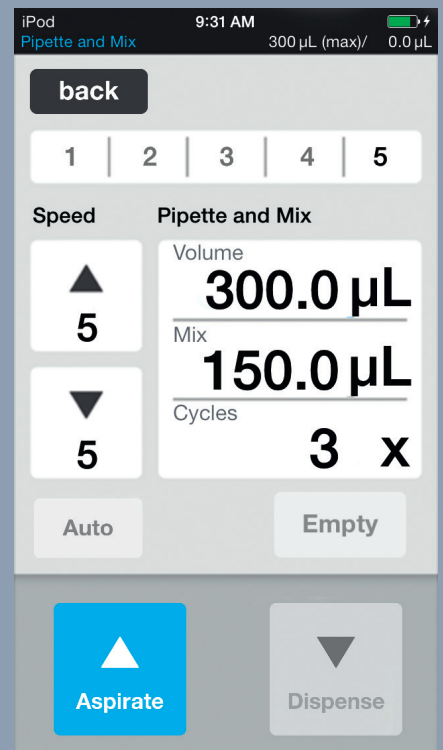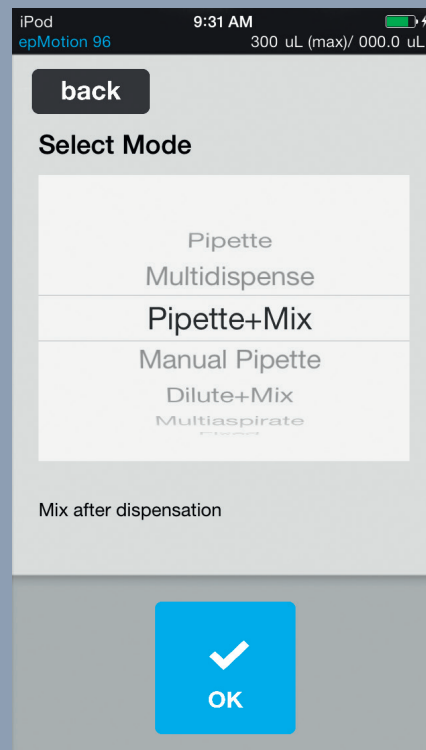pipetting performance

Height adjustment
Possibility to pre-set labware height for
repetitive tasks or auto-pipetting mode

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

iPod	9:31 AM	
epMotion 96		300 uL (max)/ 000.0 uL

back

Select Mode

Pipette
Multidispense
Pipette+Mix
Manual Pipette
Dilute+Mix
Multiaspirate

Mix after dispensation

✔ **OK**

iPod	9:31 AM	
Pipette and Mix		300 μL (max)/ 0.0 μL

back

| 1 | 2 | 3 | 4 | 5 |

Speed   **Pipette and Mix**

▲
5

▼
5

Volume
300.0 μL
Mix
150.0 μL
Cycles
3 x

Auto   Empty

▲ **Aspirate**   ▼ Dispense

Applications
> Replication and reformatting of microplates
> Cell seeding and media change
> Reagent and compound addition
> 384-wells by 4 times 96-well pipetting
> Cell-based assays
> ELISA handling (plate coating & wash)
> Biochemical assays

Ease Your Workflow

1   Insert the appropriate tip type for 0.5−50 µL or 5−300 µL into the loading frame

2   Slide loading frame into ep*Motion* 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

4   Touch »Aspirate« to take liquid from source plate, change to destination plate and touch »Dispense«

Related Consumables and Accessories

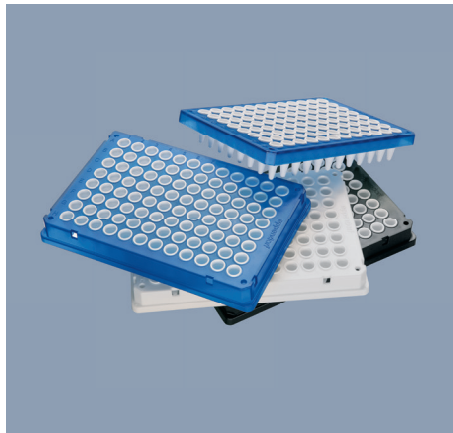300 µL tips as reload system (color coded for easy volume identification)

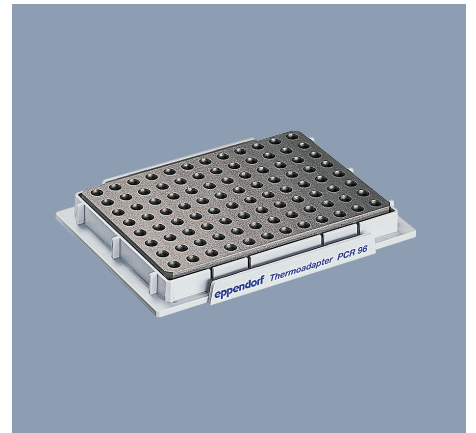50 µL tips as reload system (reduces plastic waste of tip boxes by 40 %)
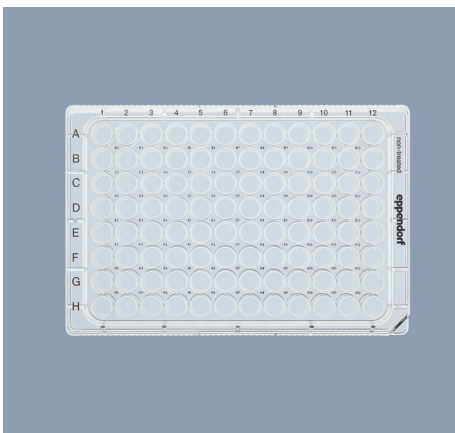

Additional loading frame

TipHolder for temporary storage of tip tray

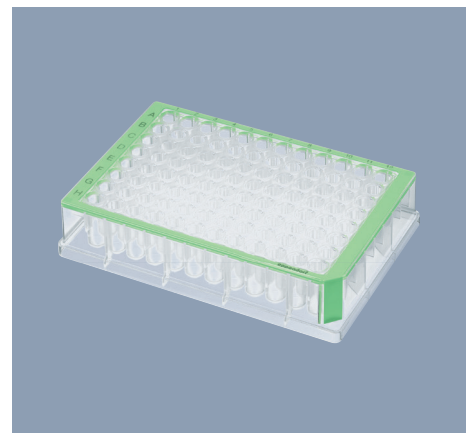Eppendorf twin.tec® PCR plates 96- and 384-well

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

Eppendorf Cell Culture Plates 96-well

Eppendorf Assay/Reader Microplates

Eppendorf Deepwell Plates

> Find all the matching consumables: www.eppendorf.com

Technical Specifications

Dimension of device	Width 9 in/22.9 cm	Depth 18 in/45.7 cm	Height 21 in/53.3 cm
Weight of device	42 lb /19 kg		
Power supply	Voltage	100-240 V ±10 %	
	Frequency	50-60 Hz ±5 %	
	Max output	100 W	
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	Aspiration and dispensing of liquids		
Multidispense	Dispensing of liquid in multiple equal volumes		
Pipette + Mix	Aspiration and dispensing followed by user defined mixing cycles		
Manual Pipette	Aspiration of liquid can be manually stopped prior to reaching the max set volume; used for volume determination or gentle aspiration of supernatants		
Dilute + Mix	Aspiration of a concentrate and a diluent separated by an air gap. Mix after dispensing		
Multiaspirate	Aspiration of multiple equal liquid volumes; used for pooling from multiple plates		
Programming	Store sequences of multiple modes as programmed workflows		
Pipetting technology	96 channel air displacement		
Volume range	50 µL tips	300 µL tips	
	0.5 to 50 µL	5 to 300 µL	
Pipetting performance	Volume	Systematic measurement error	Random measurement error
	1 µL (50 µL tips)	± 2%	< 3%
	10 µL (300 µL tips)	± 2%	< 3%

* Apple iPod controller must be ordered separately.

Ordering information

Description	International Ordering no.	North America Ordering no.
ep*Motion*® 96, semi-automated electronic pipette for parallel 96 channel microplate processing (without iPod® controller)	5069 000.012	5069000004

epT.I.P.S.® Motion pipette tips

	International	North America
50 µL, Reloads, Filter, PCR clean and sterile, volume range 1–50 µL, Reloads, 12 × 2 trays with 96 tips	0030 014.529	0030014529
50 µL, Reloads, Filter, PCR clean, volume range 1–50 µL, Reloads, 12 × 2 trays with 96 tips	0030 014.430	0030014430
50 µL, Reloads, Eppendorf Quality™, volume range 1–50 µL, Reloads, 12 × 2 trays with 96 tips	0030 014.421	0030014421
300 µL, Reloads, Filter, PCR clean and sterile, volume range 20–300 µL, Reloads, 12 × 2 trays with 96 tips	0030 014.537	0030014537
300 µL, Reloads, Filter, PCR clean, volume range 20–300 µL, Reloads, 12 × 2 trays with 96 tips	0030 014.472	0030014472
300 µL, Reloads, Eppendorf Quality™, volume range 20–300 µL, Reloads, 12 × 2 trays with 96 tips	0030 014.464	0030014464
Thermoadapter for PCR plates, 96-well, skirted, for use with 96 × 0.2 mL tubes or a 96-well PCR plate	5075 787.008	960002199
Thermoadapter for PCR plates, 384-well, skirted, for use with a 384-well PCR plate	5075 788.004	960002202

Please visit www.eppendorf.com/epServices for available ep*Motion* 96 Performance Plans service products.