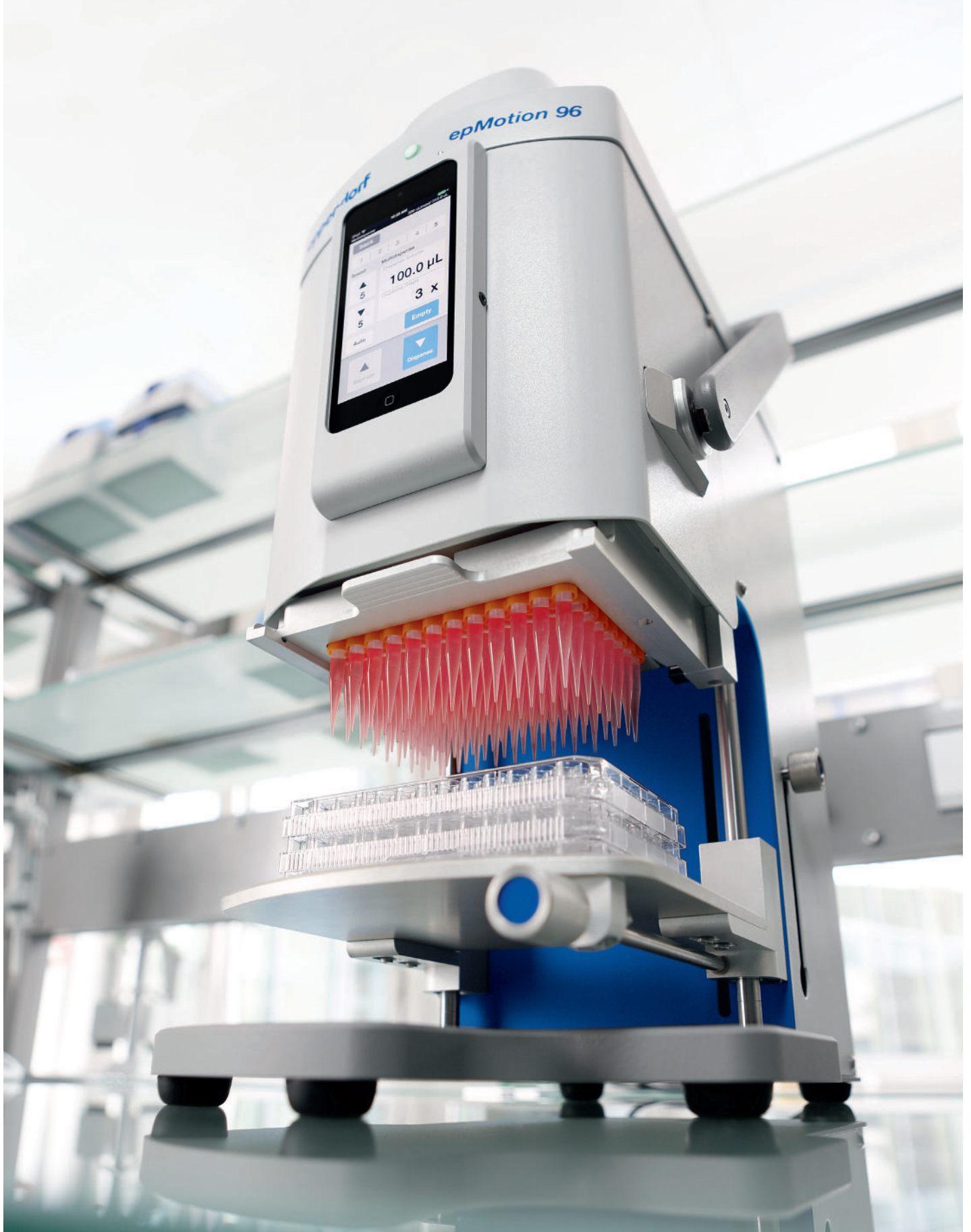


96 Well? Done!

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



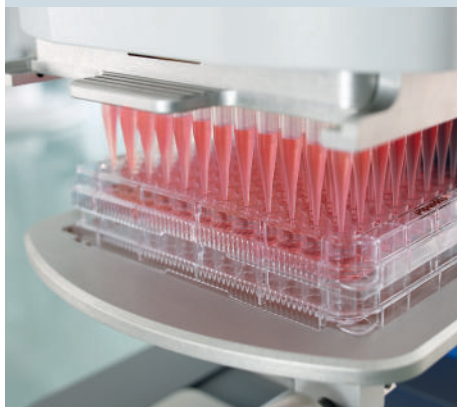
Try it and you will see how easy and fast your 96-well and 384-well plates get processed.

»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 μ L
- > Accuracy of < 2 % at 1 μ L



Ease of use

- > 0.5 to 300 μ L or 5 to 1000 μ 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[®] 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[®] iPod[®]

High quality touch screen for convenient system control. Accessible by other iOS 9.3 and newer 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 Thermo adapters. 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

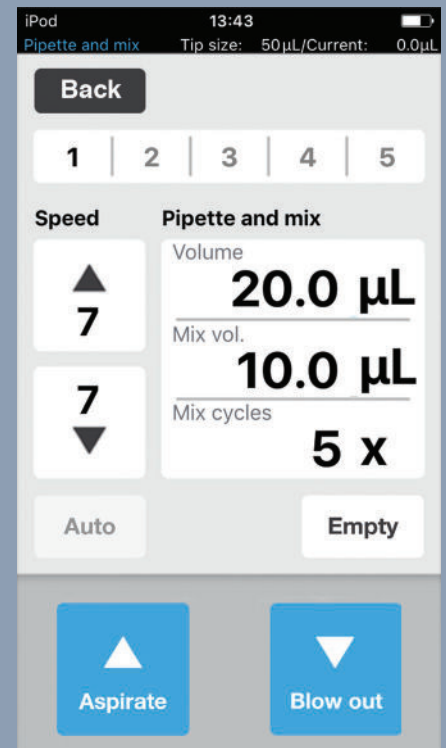
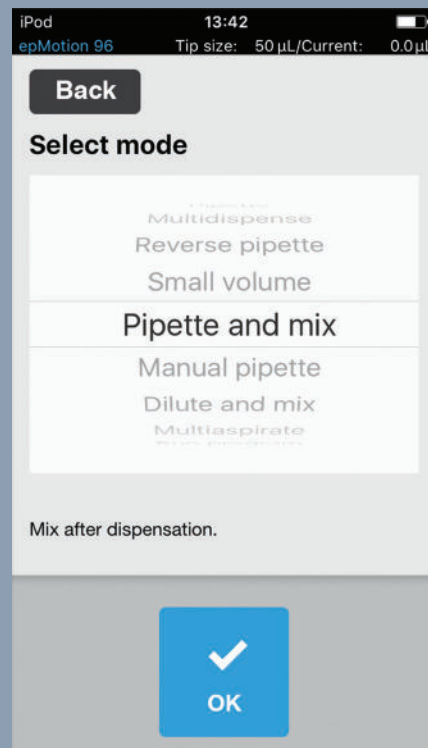
Possibility to pre-set labware heights in 2 positions for repetitive tasks or auto-pipetting mode

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



1



2

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 μ L or 5 – 300 μ L for epMotion 96, 5 – 300 μ L or 10 – 1000 μ 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«



3

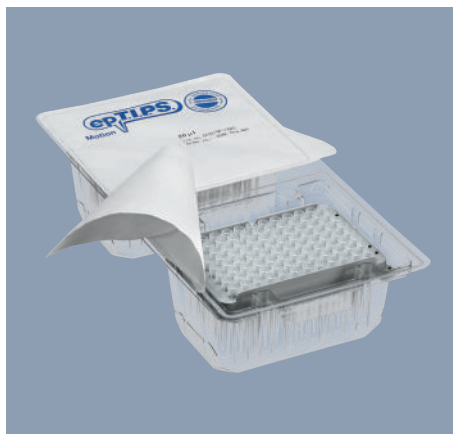


4

Related Consumables and Accessories



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



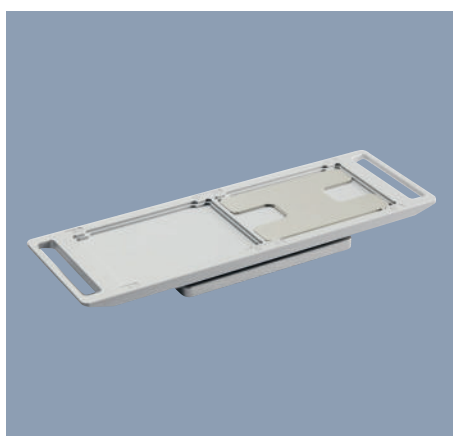
50 µL tips as reload system (reduces plastic waste of tip boxes by 40 %)



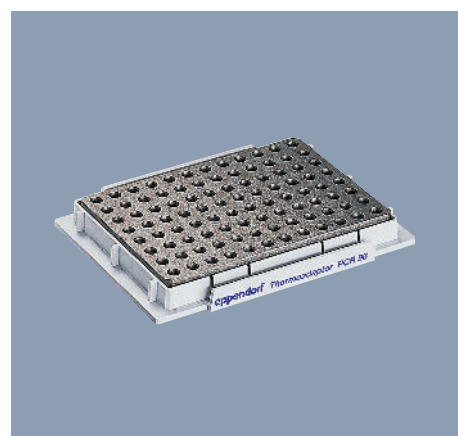
Additional loading frame



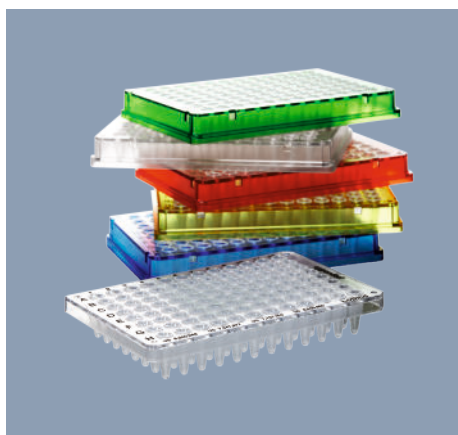
TipHolder for temporary storage of tip tray



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 [®] 96	epMotion 96xl
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	44 lb/20 kg
Weight of device	42 lb/19 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	50 μ L tips 0.5 to 50 μ L	1000 μ L tips 10 to 1000 μ L

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

* Apple iPod controller must be ordered separately.

Ordering information

Description	International Ordering no.
epMotion [®] 96, semi-automated electronic pipette for parallel 96 channel microplate processing (without iPod [®] controller), 0.5-300 μ L	5069 000 012*
epMotion [®] 96 with 2-position slider, semi-automated electronic pipette for parallel 96 channel microplate processing (with 2 positions, without iPod [®] controller), 0.5-300 μ L	5069 000 110*
epMotion [®] 96xl, semi-automated electronic pipette for parallel 96 channel microplate processing (without iPod [®] controller), 5-1000 μ L	5069 000 217*
epMotion [®] 96xl, with 2-position slider, semi-automated electronic pipette for parallel 96 channel microplate processing (without iPod [®] controller), 5-1000 μ L	5069 000 314*
iPod touch [®] 16 GB Blue (epMotion 96 controller)	
50 μ L, Reloads, Filter, PCR clean and sterile, 12 \times 2 trays with 96 tips	0030 014 529
50 μ L, Reloads, Filter, PCR clean, 12 \times 2 trays with 96 tips	0030 014 430
50 μ L, Reloads, Eppendorf Quality [™] , 12 \times 2 trays with 96 tips	0030 014 421
300 μ L, Reloads, Filter, PCR clean and sterile, 12 \times 2 trays with 96 tips	0030 014 537
300 μ L, Reloads, Filter, PCR clean, 12 \times 2 trays with 96 tips	0030 014 472
300 μ L, Reloads, Eppendorf Quality [™] , 12 \times 2 trays with 96 tips	0030 014 464
1000 μ L, Reloads, Filter, PCR clean and sterile, 12 \times 2 trays with 96 tips	0030 014 570
1000 μ L, Reloads, Filter, PCR clean, 12 \times 2 trays with 96 tips	0030 014 510
1000 μ L, Reloads, Eppendorf Quality [™] , 12 \times 2 trays with 96 tips	0030 014 502
Low dead volume reservoir 195 mL, single well with 96 cavities, PCR clean, 4 \times 5 reservoirs	0030 126 556
Upgrade set 2-position slider, for upgrading existing epMotion [®] 96 from 1 to 2 positions	5069 074 008
Loading frame for epMotion [®] 96	5069 072 005
Adapter 384-well plate for epMotion [®] 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 for more information.

Please visit www.eppendorf.com/epServices for available epMotion 96 performance plans service products.

Your local distributor: www.eppendorf.com/contact

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