

Thermo Scientific Matrix Electronic Pipettes

The Thermo Scientific Matrix Electronic Pipettes combine intuitive step-based programming with superior ergonomic design to provide power and flexibility to enhance multiple pipetting applications. From the unique, robust “ski-boot” design to the trigger-based operation and tip ejection, Matrix electronic pipettes offer the ideal choice in pipetting comfort and minimize risk of Repetitive Strain Injury (RSI). Increase productivity with individual speed settings, expandable tip spacing options and step-based programming.



Intuitive, Step-Based Programming.

Unlike most electronic pipettes, step-based programming allows you to automate anything done with a manual pipette. All functions (aspirate, mix and dispense) can be linked together to create either simple or complex protocols. Save up to five, 40-step programs in memory.

Ergonomic Design. Perfectly balanced, the “ski-boot” design fits comfortably in the hand and facilitates a neutral wrist position and eliminates uncomfortable hand/arm positions. This balance offers greater pipetting control while working closer to the lab bench than with other pipettes.

Trigger-Based Operation and Ejection.

Eliminates use of thumb and reduced strain when ejecting tips.

Adjustable Tip Spacing. Whether using a Thermo Scientific Matrix Electronic EXP or Equalizer with expandable, equal tip spacing, instantly increase productivity and reduce cost with a simple slide adjustment of the rod arm. Perform sample transfers between virtually any tube rack, microplate or horizontal gel box saving many motions of arm and thumb.

Light Tip Application and Ejection.

Matrix® tip fittings are designed with Thermo Scientific Matrix pipette tips to produce a superior seal requiring minimal insertion forces. The stepped ejector plate significantly reduces ejection force required while the soft touch index finger trigger eliminates thumb hyperextension.

Eliminate Downtime. Advanced battery technology enables the ability to use pipette while recharging.

Thermo Scientific Matrix Electronic Pipette Specifications

Thermo Scientific Matrix Single Channel Electronic Pipette

Cat. No.	Volume	Min. Prog. Unit	Precision ¹	Accuracy ¹
1029	0.5 - 12.5 µl	0.05 µl	± 0.4% or 0.01 µl	± 1.0% or 0.06 µl
1020	1.0 - 30 µl	0.05 µl	± 0.3% or 0.05 µl	± 1.0% or 0.15 µl
1021	2 - 125 µl	0.1 µl	± 0.2% or 0.1 µl	± 0.6% or 0.3 µl
1022	5 - 250 µl	0.5 µl	± 0.15% or 0.15 µl	± 0.6 or 0.5 µl
1024	15 - 1250 µl	1.0 µl	± 0.13% or 0.6 µl	± 0.5% or 3.0 µl

Thermo Scientific Matrix Short Barrel Pipette

Cat. No.	Volume	Min. Prog. Unit	Precision ¹	Accuracy ¹
1122	5 - 250 µl	0.5 µl	± 0.15% or 0.15 µl	± 0.6% or 0.5 µl
1124	15 - 1250 µl	1.0 µl	± 0.13% or 0.6 µl	± 0.5% or 3.0 µl

Thermo Scientific Matrix Multichannel Electronic Pipette

Cat. No.	Volume	Channel	Min. Prog. Unit	Precision ¹	Accuracy ¹
2009	0.5 - 12.5 µl	8	0.05 µl	± 2.0% or 0.15 µl	± 2.5% or .15 µl
2001	2 - 125 µl	8	0.1 µl	± 1.0% or 0.60 µl	± 2.0% or 1.0 µl
2002	5 - 250 µl	8	0.5 µl	± 0.7% or 1.0 µl	± 2.0% or 1.5 µl
2004	15 - 1250 µl	8	1.0 µl	± 0.6% or 3.0 µl	± 1.5% or 6.0 µl
2019	0.5 - 12.5 µl	12	0.05 µl	± 2.0% or 0.15 µl	± 2.5% or 0.15 µl
2011	2 - 125 µl	12	0.1 µl	± 1.0% or 0.60 µl	± 2.0% or 1.0 µl
2012	5 - 250 µl	12	0.5 µl	± 0.7% or 1.00 µl	± 2.0% or 1.5 µl
2014	15 - 850 µl	12	1.0 µl	± 0.6% or 2.50 µl	± 1.5% or 4.0 µl
2069	0.5 - 12.5 µl	16	0.05 µl	± 2.0% or 0.15 µl	± 2.5% or 0.15 µl
2060	1.0 - 30 µl	16	0.05 µl	± 1.7% or 0.30 µl	± 2.0% or 0.30 µl
2061	2 - 125 µl	16	0.1 µl	± 1.0% or 0.60 µl	± 2.0% or 1.0 µl

Thermo Scientific Matrix EXP Pipette (Features expandable tip spacing)

Cat. No.	Volume	Channel	Min. Prog. Unit	Precision ¹	Accuracy ¹
2621	2 - 125 µl	6	0.1 µl	± 1.0% or 0.6 µl	± 2.0% or 1.0 µl
2622	5 - 250 µl	6	0.5 µl	± 0.7% or 1.0 µl	± 2.0% or 1.5 µl
2624	15 - 1250 µl	6	1.0 µl	± 0.6% or 3.0 µl	± 1.5% or 6.0 µl
2029	0.5 - 12.5 µl	8	0.05 µl	± 2.0% or 0.15 µl	± 2.5% or 0.15 µl
2021	2 - 125 µl	8	0.1 µl	± 1.0% or 0.6 µl	± 2.0% or 1.0 µl
2022	5 - 250 µl	8	0.5 µl	± 0.7% or 1.0 µl	± 2.0% or 1.5 µl
2024	15 - 1250 µl	8	1.0 µl	± 0.6% or 3.0 µl	± 1.5% or 6.0 µl
2229	0.5 - 12.5 µl	12	0.05 µl	± 2.0% or 0.15 µl	± 2.5% or 0.15 µl

Expandable Tip-to-Tip Spacing (for the Thermo Scientific Matrix EXP)

Cat. No.	Channel	Expanded Spacing	Closed Spacing
2621, 2622, 2624	6	19.81 mm (16 mm tubes and 24 well plates)	9.0 mm (microplates)
2021, 2022, 2024	8	14.15 mm (12 or 13 mm tubes and 48 well plates)	9.0 mm (microplates)
2029	8	13.06 mm (microcentrifuge tubes)	9.0 mm (microplates)
2229	12	9.0 mm (microplates)	6.0 mm (Terasaki, gels, 864s)

Thermo Scientific Matrix Equalizer Pipette (Features expandable, equal tip spacing)

Cat. No.	Model	Volume	Channel	Min. Prog. Unit	Precision ¹	Accuracy ¹
2032	Equalizer	5 - 250 µl	8	0.5 µl	± 0.7% or 1.0 µl	± 2.0% or 1.5 µl
2034	Equalizer	15 - 1250 µl	8	1.0 µl	± 0.6% or 3.0 µl	± 1.5% or 6.0 µl
2139	Equalizer 384	0.5 - 12.5 µl	8	0.05 µl	± 2.0% or .15 µl	± 2.5% or 0.15 µl
2130	Equalizer 384	1.0 - 30 µl	8	0.05 µl	± 1.7% or 0.30 µl	± 2.0% or 0.30 µl
2131	Equalizer 384	2 - 125 µl	8	0.1 µl	± 1.0% or 0.6 µl	± 2.0% or 1.0 µl
2239	Equalizer 384	0.5 - 12.5 µl	12	0.05 µl	± 2.0% or .15 µl	± 2.5% or 0.15 µl
2230	Equalizer 384	1.0 - 30 µl	12	0.05 µl	± 1.7% or 0.30 µl	± 2.0% or 0.30 µl
2231	Equalizer 384	2 - 125 µl	12	0.1 µl	± 1.0% or 0.60 µl	± 2.0% or 1.0 µl

Expandable Tip-to-Tip Spacing (for the Thermo Scientific Matrix Equalizer)

Minimum Spacing	
9 mm	Transfer To/From: 96 Microplates, Deepwell Block, ScreenMates Tube Racks
Maximum Spacing	
14.15 mm	From/To: Microcentrifuge Tube Racks, Test Tube Racks, 48 Well Microplates

Expandable Tip-to-Tip Spacing (for the Thermo Scientific Matrix Equalizer 384)

Minimum Spacing	
4.5 mm	Transfer To/From: 384 Microplates, 384 PCR Plates, Agarose Gels
Maximum Spacing	
14.15 mm ²	From/To: 96 Microplates, Deep Well Blocks, ScreenMates Tube Racks, 48 Well Microplates ² , Microcentrifuge Tube Racks ² , Test Tube Racks ²
9 mm ³	From/To: 96 Microplates, Deep Well Blocks, ScreenMates Tube Racks

¹ Data determined using neat dispensing.

² 8 Channel Only ³ 12 Channel Only

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