

## Thermo Scientific Matrix PlateMate Plus

The Thermo Scientific Matrix PlateMate Plus is designed for medium to high throughput liquid handling applications, with walk away capability via four integrated stackers and optional Tip Tower accessory. The Matrix PlateMate Plus is compatible with eight interchangeable pipetting heads with a combined volume range of 0.1µl -300µl, making the unit compatible with a wide range of liquid handling tasks. Well suited applications include plate stamping, reformatting and pooling to 384 and 1536, plate filling and serial dilutions in research, screening, and production environments.



**8 Interchangeable Pipetting Heads:** The choice of eight user-interchangeable pipetting heads offer a combined volume range of 0.1µl-300 µl in 96 or 384 format using either air or positive displacement pipetting technology. This flexibility makes the Thermo Scientific Matrix PlateMate Plus compatible with liquid handling applications in 24, 48, 96, 384 and 1536 labware format. Disposable Automation Research Tips (D.A.R.T.s<sup>®</sup>) increase pipetting flexibility with filtered, extended length, and wide bore options.

**Integrated 25 or 50 Plate Stackers:** With integrated 25 or 50 plate capacity stackers, the Matrix PlateMate Plus is able to shuttle labware to and from the pipetting head, quickly and effectively using 4- independent microplate stages. The stackers can lid and de-lid microplates to accommodate sensitive liquid handling applications. Stacker chimneys are easily removable with front loading doors for user convenience and can also be used on the Matrix WellMate Stacker.

**On-board Reagent Replenishment:** Two software controllable peristaltic pumps come standard on every Matrix PlateMate Plus base unit. These pumps can be used for replenishment of reservoir vessels or tip wash station fluid supply to increase walk away capability.

**ControlMate<sup>®</sup> Software Interface:** License-free, intuitive software interface makes program creation and modification fast and easy. The ControlMate interface is designed to make the transition from handheld pipetting to automated liquid handling seamless. Software can be installed on multiple computers to enable remote program creation, editing, and validation.

**Installation and Training:** An Automation Specialist will install, configure, and train user groups on the Thermo Scientific Matrix PlateMate Plus. Automation Specialists and Service Engineers are also available for application support post-installation, allowing customers to email protocol files when requiring programming support.

## Thermo Scientific Matrix PlateMate Plus

Length	52 in/ 1324 mm	
Depth	16 in/ 411mm	
Height	25 Plate Stackers 29 in/ 721 mm 50 Plate Stackers 41 in/ 1041 mm	
Weight	180lbs/ 80kg	
Power	50/60Hz, 100~240 V, 100VA	
Maximum Power Consumption	<150W	
Operating Conditions	+15°C- 40°C	<85% RH at +30°C
Interface	RS232c	
Warranty	1 year included	

### Product Ordering Guide

Catalog #	Description
501-10001	Thermo Scientific Matrix PlateMate Plus
501-30005	Tall Stacker Chimney, 50 Plate Capacity
501-30006	Short Stacker Chimney, 25 Plate Capacity

Thermo Scientific Matrix PlateMate Plus base units include:  
4-position deck, two (2) peristaltic pumps, one vacuum pump for waste fluid removal, ControlMate software interface, power cord, and PC communication cable

### Pipetting Head

Catalog #	Channels	Volume Range	Air or Positive Pipetting Technology	Accuracy	Precision
501-20004	96	0.5-30 µl	Air Displacement	+/- 2.0% or 0.15 µl	1.5% or 0.1 µl
501-20001	96	5.0- 300 µl	Air Displacement	+/- 2.0% or 1.0 µl	1.5% or 0.75 µl
501-20002	384	0.5-30 µl	Air Displacement	+/- 2.0% or 0.15 µl	1.5% or 0.1 µl
501-20005	384	1.0- 100 µl	Air Displacement	+/- 2.0% or 0.5 µl	1.5% or 0.25 µl
501-102810	96	0.1-50 µl	Positive Displacement, Stainless Steel, PTFE	+/- 2.5% or 0.01 µl	1.5% or 0.02 µl
501-102811	96	0.1-50 µl	Positive Displacement, Duraflex	+/- 2.5% or 0.01 µl	1.5% or 0.02 µl
501-102890	384	0.1-50 µl	Positive Displacement, Stainless Steel, PTFE	+/- 2.5% or 0.01 µl	1.5% or 0.02 µl
501-102891	384	0.1-50 µl	Positive Displacement, Duraflex	+/- 2.5% or 0.01 µl	1.5% or 0.02 µl

### Accessories

Standard and Tall Height Tip Wash Stations

Barcode Reader

Serial dilution Column Access D.A.R.T.s Magazines

Thermal Control Options

Extended Warranty and Preventative Maintenance Packages

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 Europe: Tel: +44 (0) 161 486 2110 | email: [matrix.eu.info@thermofisher.com](mailto:matrix.eu.info@thermofisher.com)  
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