

Thermo Scientific Matrix PlateMate 2x3

Designed to perform a variety of liquid handling tasks for a wide range of applications, the Thermo Scientific Matrix PlateMate 2x3 is a 6-position automated liquid handler compatible with eight interchangeable pipetting heads, and a total available volume range of 0.1 μ l -300 μ l. This versatile instrument can be easily integrated into larger robotic systems, or used as a standalone workstation.



Compact Benchtop Footprint. The Thermo Scientific Matrix PlateMate 2x3 fits comfortably on any bench top as a standalone workstation with included user safety features, or as a robotic-friendly unit that can be integrated as the liquid handling component of larger robotic systems.

Versatile 6-Position Deck. With a wide range of plug-and-play accessories, the Matrix PlateMate 2x3 is ideal for plate to plate transfers, plate reformatting, and serial dilutions, making the instrument compatible with a variety of applications including vacuum extraction or filtration, 96 simultaneous tube piercing, IC50 or EC50, thermally-controlled applications, and applications that require bar code reading capability. The deck comes standard with a 24V DC outlet to supply power to an additional peripheral deck-based device.

8 Interchangeable Pipetting Heads. The choice of eight user-interchangeable pipetting heads with a combined available volume range of 0.1 μ l-300 μ l in 96 or 384 format using either

air or positive displacement pipetting technology. This flexibility makes the Matrix PlateMate 2x3 compatible with liquid handling applications in 24, 48, 96, 384, and 1536 labware format. Disposable Automation Research Tips (D.A.R.T.s[®]) increase pipetting flexibility with filtered, extended length, and wide bore options.

ControlMate[®] Software Interface. License-free, intuitive software interface makes program creation and modification fast and easy. ControlMate OLE is available for applications requiring Active X control for robotic integration. 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 2x3. 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 2x3

Width	25" / 635mm	Maximum Power Consumption	<150W
Depth	29.5" / 749mm	Operating Conditions	+15°C- 40°C <85% RH at +30°C
Height	23" / 584mm	Interface	RS232c
Weight	120 lbs/ 54.4kg	Warranty	1 year included
Power	50/60Hz 100-240 V AC		

Thermo Scientific Matrix PlateMate 2x3 Product Offering

Name	Description
801-10001	Thermo Scientific Matrix PlateMate 2x3 Standalone Model (Includes light safety curtain and side shields)
801-10005	Thermo Scientific Matrix PlateMate 2x3 Robotic Friendly (Does not include light safety curtain and side shields)

Standalone and Robotic friendly Thermo Scientific Matrix PlateMate 2x3 base units include: 6-position deck, two (2) peristaltic pumps, one vacuum pump for waste fluid removal, one (1) 24 V DC outlet, ControlMate software interface, power cord, PC communication cable

Thermo Scientific Matrix PlateMate 2x3 Pipetting Heads

Air or Positive

Item No.	Channels	Volume Range	Pipetting Technology	Accuracy	Precision
501-20004	96	0.5-30 µl	Air	+/- 2.0% or 0.15 µl	1.5% or 0.1 µl
501-20001	96	5.0- 300 µl	Air	+/- 2.0% or 1.0 µl	1.5% or 0.75 µl
501-20002	384	0.5-30 µl	Air	+/- 2.0% or 0.15 µl	1.5% or 0.1 µl
501-20005	384	1.0- 100 µl	Air	+/- 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

Thermo Scientific Matrix PlateMate 2x3 Accessory Options

Vacuum Extraction Manifold Kit

Sealed Storage Tube Piercing Kit

Standard and Tall Height Tip Wash Stations

Barcode Reader

Serial dilution/ Single Row or Column Access D.A.R.T.s Magazines

Thermal Control Options

Extended Warranty and Preventative Maintenance Packages

North America: Tel: 800.345.0206 | email: matrix.info@thermofisher.com

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

Asia: email: matrix.ap.info@thermofisher.com

web: www.thermo.com/matrix

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