

WellMate™

Lower Your Long-Term Plate Filling Costs In One Fluid Motion.



Cost-Efficiency, Flexibility And Performance Now Available In A Unique 8-Channel Dispenser.

With a chemically resistant stage design, height adjustable dispensing head, and disposable, pre-sterilized tubing cartridges, WellMate brings unparalleled flexibility and cost-efficiency to microplate fluid dispensing. It is the first instrument of its kind to offer fast dispensing of fluids in a wide, dynamic volume range (2 μ L to 2,000 μ L). It also offers the added benefit of being able to accommodate a variety of commonly used labware. Simply raise or lower the dispensing head to the required height and WellMate can handle everything from shallow well plates to deep well blocks and storage tubes as tall as 3.5 inches (89mm). Once the plate and dispensing head are in place, WellMate can be programmed to dispense 2 μ L to 2,000 μ L into specific columns or the entire plate.

FEATURES

- Manually adjustable dispensing head.
- Low cost, disposable, pre-sterilized tubing cartridges with standard- or small-bore needle options.
- Innovative programming allows discrete well/column filling.

BENEFITS

- One instrument accommodates virtually all 96 and 384 well plates
- Flexibility of pipetting everything from sensitive cellular materials to high vapor pressure fluids. (See inside for details.)
- Offers greater flexibility in assay design.

MATRIX
fluid thinking.
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AUTOMATED PIPETTING

WellMate—Flexible, High-Speed, 8-Channel Microplate Dispenser.

Disposable Tubing Cartridge

Height-Adjustable Dispense Manifold

Digital LED Display

Keypad User Interface

Easy, Push-Button Removal System For Disposable Tubing Cartridge

Removable Stage For Ease Of Cleaning

Removable Waste Fluid Reservoir

Universal Footprint Stage Accommodates 96 And 384 Well Plates

Teflon®-Coated Drip Tray

Exceptional Functionality In A Compact Design

WellMate is easy to clean and has a small footprint that makes it ideal for space-conscious laboratories. It also features:

A Built-in Spill Barrier: Helps prevent spills from contacting electronics.

Simple Pump Motor Controls: Support fast, easy manual priming and emptying of tubing lines. Fluid flow can be manually reversed to recover valuable reagent contained in the lines.

Inexpensive Tubing Cartridges: Can be quickly and easily replaced, eliminating the need to have them serviced and recalibrated.

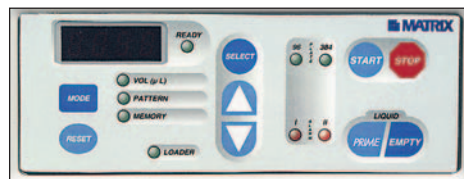
A Visual/Audible Safety System: Prevents pump motor rotation when tubing is not clamped correctly.

Standard 9-Pin RS232 Programming Capability: Offers flexible robotic integration options.

Programming Flexibility

WellMate can store up to 18 programs in memory: nine 96-channel programs and nine 384-channel programs.

An intuitive keypad with quick-scroll buttons enables dispense volumes to be quickly and efficiently programmed. Choosing between 96 and 384 well plate formats is as simple as pressing a button on the dispensing head and an LED on the keypad confirms the plate type and dispense volume selected.



One programming innovation enables the user to select plate columns to be filled or left empty. Rather than always filling the entire plate, an operator can now choose discrete columns to be filled on a particular plate or block.



HANDHELD PIPETTING

CONSUMABLES

WELLMATE

WellMate Tubing Cartridge Options



On top of its flexibility and functionality, WellMate offers unique cost-efficiencies with inexpensive, pre-sterilized tubing cartridges. Economical enough to be disposable, yet

rugged enough to be autoclaved for long-term use, our unique tubing cartridges are ideally suited to a variety of users and applications.

Silicone-based tubing cartridges are available with:

A Standard-Bore Nozzle Orifice:

For 96 well plate filling and volumes above 20 μ L.



A Small-Bore Nozzle Orifice:

For 384 well plate filling and volumes as low as 2 μ L.



WellMate tubing cartridges come in economical packs of five making it possible for customers to keep several cartridges on hand for reagent-specific plate-filling applications. Each tubing cartridge is pre-calibrated at the factory, and can be used to fill a minimum of 1,000 plates. Matrix also validates each cartridge's precision and accuracy at two different volumes and provides resulting test certificates. Use the selection chart below to help identify the appropriate tubing cartridge for your particular plate-filling application.

Nozzle Selection Guide

| Standard-Bore Needs | Small-Bore Needs |
|---|--|
| Microplate Compatibility: 96 Shallow or Deep Well Plates | Microplate Compatibility: 96 or 384 Shallow or Deep Well Plates |
| Recommended For: Sterile plate-filling applications Dispense volumes between 20-2,000 μ L Dispensing of cellular materials Dispensing of Viscous fluids | Recommended For: Sterile plate-filling applications Enhanced dispense precision for volumes ranging from 2-200 μ L Dispensing of high vapor pressure fluids such as ethanol or methanol |
| Accuracy and Precision Specifications: \pm 2.0% or 1.0 μ L | Accuracy and Precision Specifications: \pm 4.0% or 0.4 μ L <20 μ L \pm 2.0% \geq 20 μ L |

Stage Removal And Cleaning

For fast, easy cleaning and maintenance, WellMate features a plate stage that can be easily removed without tools and a Teflon-coated drip tray. It also



comes equipped with a standard priming reservoir that includes a drain port and tube so extended runs can be accommodated without reservoir overflows.

Fast, Accurate Plate Processing

With two high-resolution stepper motors, WellMate offers accurate plate movement and fluid dispensing capabilities. The high speed motor technology also ensures that plate filling times are minimized.

WellMate Plate Filling Speeds

| Dispense Volume | 96 Plate | 384 Plate |
|-----------------|------------|-----------|
| 5 μ L | 3.2 (sec.) | 9 (sec.) |
| 10 μ L | 4.5 | 11 |
| 50 μ L | 8.7 | 26.5 |
| 100 μ L | 13.2 | 45.5 |
| 500 μ L | 52.2 | N/A |
| 1,500 μ L | 148 | N/A |

Safety Features

For enhanced operator safety, a number of innovative design features have been incorporated into every WellMate. The system includes built-in sensors that:

- Prevent fluid spills by monitoring and preventing all movement if the tubing cartridge clamp guide is opened during dispensing.
- Monitor the plate type selected (96 or 384) and stop all dispensing actions if this is inadvertently changed during a plate filling sequence.

Vessel Compatibility

WellMate's flexible design allows it to be used with a broad range of Matrix consumables. By raising or lowering the dispensing head using a simple lever, you're free to work with the labware of your choice, everything from shallow well plates to deep well blocks and storage tubes as tall as 3.5 inches (89mm).



Matrix ScreenMates disposables are ideal for processing samples manually or on automated liquid handling instruments like WellMate. Our comprehensive line of products includes:

Storage Tubes And Racks:

One of the most complete ranges of tubes and racks available on the market today.

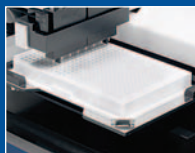


2-D Sample-Tracking Solutions:

TrakMates®* 2-D bar coded tubes and VisionMates® readers are the ultimate in sample tracking solutions.

Polypropylene Blocks And Plates:

96 and 384 solutions for sample storage and serial dilution needs.



All ScreenMates undergo our unique PureFect® testing to ensure absolute purity. Available standard or sterile, each product is guaranteed perfectly free of DNA, DNase, RNase, Cytotoxins and Endotoxins.

For more information on the complete ScreenMates product line, contact your Matrix representative.

* Patents pending

WellMate Product Specifications

| | |
|--------------------------|------|
| 14.5 x 12.0 x 8.5 inches | 24lb |
| 36.8 x 30.5 x 21.6cm | 11kg |

WellMate Power Requirements

| | |
|---------------|--------------------|
| Input Voltage | 100V AC or 240V AC |
| Consumption | 50/60 Hz - 40VA |

Communication Port—9-pin RS232 (supported by a complete ASCII command set)

WellMate Tubing Cartridge Accuracy and Precision Specifications

| | |
|-----------------------|--------------------|
| Standard-Bore Needles | Small-Bore Needles |
| ±2.0% or 1.0µL | ±2.0% or 0.25µL |

WellMate

| Base Unit | | |
|-------------------|---|------------|
| Item No. | Description | Unit |
| 201-10001 | WellMate base unit inclusive of: One standard-bore tubing cartridge, one small-bore tubing cartridge, universal-microplate removable stage, waste-fluid reservoir with tubing, nozzle height reference scale and spacer guide, and other accessories. | |
| Tubing Cartridges | | |
| Item No. | Description | Unit |
| 201-30001 | 8-channel, Standard-Bore Disposable Tubing Cartridge. Pre-sterilized. Features a 0.023" (0.58mm) inner diameter nozzle orifice. | 5 per case |
| 201-30002 | 8-channel, Small-Bore Disposable Tubing Cartridge. Pre-sterilized. Features a 0.015" (0.38mm) inner diameter nozzle orifice. | 5 per case |

ORDERING GUIDE

HANDHELD PIPETTING

AUTOMATED PIPETTING

CONSUMABLES

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