

Thermo Scientific Matrix® WellMate® and Microplate Stacker

The Thermo Scientific Matrix WellMate offers supreme flexibility for all microplate filling needs. With a volume range of 1 to 2000 µl, the Matrix WellMate accommodates a wide selection of labware and improves cost-efficiency with disposable, pre-sterilized and pre-calibrated tubing cartridges. Programming flexibility allows any member of the laboratory to utilize the instrument and the optional plug-and-play Matrix WellMate Stacker provides walk-away capability for all throughput needs.



Streamline plate filling procedures with the Matrix WellMate and increase accuracy and precision compared to handheld pipetting.



Enable walk-away capability with the Matrix WellMate Stacker to automate plate shuttling of low profile, standard and deep-well labware.

Adaptability with Tubing Assembly Options. The disposable, pre-sterilized and pre-calibrated tubing cartridges are an economic solution for dispensing multiple solutions and maintaining proper dispense calibration. These tubing assemblies are available in small- and standard-bore as well as stainless steel needle options to accommodate a variety of reagent dispensing requirements; Small- and standard-bore options ensure optimal accuracy and precision performance at low and high plate filling volumes while the stainless steel, PTFE-coated option can accommodate high viscosity and sticky solutions.

Easy Programmability. The intuitive on-board programming interface allows any member of the laboratory to utilize the instrument for a broad range of plate filling applications, including discrete column filling to allow reagent dispensing to 6, 12, 24, 48,

96 and 384 microplate formats. Additionally, RS232 connectivity and OCX interface allow seamless integration into larger robotic systems.

Scalability with Integrated Stackers. Add the Matrix WellMate Stacker to the Matrix WellMate platform and increase throughput and walk-away capabilities. Shuttle low profile, standard and deep-well labware quickly and effortlessly from the removable front-loading, 25- or 50-microplate capacity stacker chimneys to the dispenser, shuffle processed labware into original order when dispensing multiple reagents and complete sterile liquid handling procedures with lidding and de-lidding capability.

Thermo Scientific Matrix WellMate

Dimensions (W x D x H)	14.5" / 36.8 cm x 12.0" / 30.5 cm x 8.5" / 21.6 cm
Weight	24 lbs/11 kg
Power Supply	100 V AC or 240 V AC
Power Consumption	110 V, 50-60 Hz

Thermo Scientific Matrix WellMate Stacker Base Unit

Dimensions with Stacker Chimney, Tall	31.06" / 78.89 cm x 12.65" / 32.13 cm x 40" / 101.6 cm*
Dimensions with Stacker Chimney, Short	31.06" / 78.89 cm x 12.65" / 32.13 cm x 28" / 71.12 cm*
Weight	60 lbs/ 27.2 kg
Power Supply	100 V AC or 240 V AC
Power Consumption	40 V, 50-60 Hz

Thermo Scientific Matrix WellMate Tubing Cartridge Selection Guide

Item No.	Description	Orifice Size	Compatibility	Dispensing Accuracy	Dispensing Precision
201-30001	8-Channel, Standard-Bore, Plastic-molded Nozzles	0.023" 0.58 mm	6 to 96-Well Microplates	+/- 2.0% or 1.0 µl	+/- 2.0% or 1.0 µl
201-30002	8-Channel, Small-Bore, Plastic-molded Nozzles	0.015" 0.38 mm	6 to 384-Well Microplates	+/- 2.0% or 0.25 µl	+/- 2.0% or 0.25 µl
201-30003	8-Channel, Stainless Steel, PTFE-coated Nozzles	0.011" 0.28 mm	6 to 384-Well Microplates	+/- 2.0% or 0.25 µl	+/- 2.0% or 0.25 µl

Plate Filling Speeds using the Matrix WellMate

Dispense Volume	96-Well Plate	384-Well Plate
5 µl	3.2 seconds	9 seconds
10 µl	4.5 seconds	11 seconds
50 µl	8.7 seconds	26.5 seconds
100 µl	13.2 seconds	45.5 seconds
500 µl	52.2 seconds	N/A
1500 µl	148 seconds	N/A

Ordering Guide

Item No.	Description	Qty
201-10001	WellMate Microplate Dispenser, 1-2000 µl	Each
201-20001	WellMate Stacker Base Unit*	Each
501-30005	WellMate Stacker Chimney, Tall	Each
501-30006	WellMate Stacker Chimney, Short	Each
201-30001	Standard-Bore Tubing Assembly	5 cartridges/case
201-30002	Small-Bore Tubing Assembly	5 cartridges/case
201-30003	Stainless Steel, PTFE-coated Tubing Assembly	Each
201-40001	WellMate Plate Lifter	Each
201-40002	WellMate Tubing Cartridge Adapter	Each

*requires 2 Matrix WellMate Stacker Chimneys