

# MULTIPLIER<sup>®</sup> with SMARTPLEX<sup>®</sup> Technology

Your Automated Multiplex Solution



Specifications



# Multiplier<sup>®</sup> Specifications



## Physical Specifications

Dimensions	Metric	Non Metric
Width:	74.0 cm	29 in
Depth:	84 cm	33 in
Height:	76.5 cm	30 in
Footprint:	0.62 sq m	6.7 sq ft
Bench Weight:	≤80 kg (max.)	≤ 177 lbs (max.)
Ship Weight:	135 kg (max.)	297 lbs (max.)

## Power Supply Requirements

Voltage:	100 – 240 V automatic conversion
Frequency:	50/60 Hz
Power Consumption:	≤ 350 VA

## System Specifications

Number of Plates:	2
Sample Capacity:	100 (5 racks of 20)
Continuous Sample Loading:	Yes
Sample Tube Size:	500 µL vial 2 mL vial 12 mm x 75 mm tube 12 mm x 100 mm tube
Number of Reagents:	Up to 2 SmartKit <sup>®</sup> reagent packs Bronze SmartKit <sup>®</sup> holds up to 6 bottles
Number of Standard/Control Bottles:	Included in each SmartKit <sup>®</sup> reagent pack Bronze SmartKit <sup>®</sup> hold up to 10 bottles
Dilution Wells Capacity:	Up to 112 deep-wells (14 x 8)
Sample Tip Capacity:	Up to 216 tips (2 x 108)
Reagent Tip Capacity:	Up to 24 tips

## Reader Specifications

Dynamic Range:	500 – 200,000 counts
Precision:	<3% CV between 1,000 and 50,000 counts
Accuracy:	±10% between 1,000 and 50,000 counts

## Washer Specifications

Manifold Configuration:	8-way wash head
Programmable Volumes:	50 µL – 999 µL
Wash Buffer Capacity:	2 wash bottles at 2 L with quantitative level-sensing
Residual Wash Volume:	< 4 µL per well
Waste Container:	1.4 L with quantitative level-sensing

Attributes and specifications subject to change without notice.

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PN: 95000370, Rev B



## Incubator Specifications

Number of Incubators:	1 two-plate incubator
Temperature Range:	4°C Above Ambient to 37°C ±1° C
Temperature Accuracy:	± 1° C at 37° C
Shaking:	Random motion
Temperature Monitoring:	Yes

## Reagent Pipetting Specifications

Reagent Tip Size:	1,300 µL
Reagent Pipetting Volume:	20 µL – 1,000 µL
Reagent Pipetting Precision:	≤7% CV at 20 µL and 49 µL ≤5% CV at ≥ 50 µL

## Sample Pipetting Specifications

Sample Tip Size:	300 µL
Sample Pipetting Volume:	10 µL – 250 µL
Sample Pipetting Precision:	<3% CV (10 µL – 250 µL)
Time to Dispense:	96 wells x 100 µL: < 20 minutes
Dilution Range:	1 part in 199 one-stage dilution

## Process Security

Liquid Level Sensing:	Yes (reagents, controls and samples)
Level Sensor System:	Pressure differential
Clot Detection:	Yes
Dispense Anomaly Detection:	Yes
Tip Detection:	Yes
Electronic Signature Pipetting:	Yes
Alarms:	Yes

## Software

Controlling Software:	Multiplier Software
Cybersecurity:	Microsoft Windows Defender enabled
Work Protocols (Assays):	Unlimited
Data Processing:	Quantitative and qualitative
Process Reporting:	Event lot + error log
Automating Error Recovery:	Yes
Password Access Control:	Yes

Dynex<sup>®</sup> Technologies is a worldwide manufacturer of microplate instrumentation, seamlessly integrating advanced detection with fully-automated sample handling, consumables and accessories. The Dynex systems have a proven track record of high-quality products, excellent service and support.

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