

AGILITY®

DYNEX Agility Specifications



About DYNEX Technologies

DYNEX 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.

Ordering Information

Product #	Instrument
67000	Agility System
Product #	Consumables
62910	Deep-well strips (250/box)
65950	Reagent tubes, 25 mL (24/pack)
67920	Reagent tips (490/pack)
67910	Sample tips (896/pack)
65940	Control vials with caps (33/pack)
67960	Bronze kit troughs (50/pack)
67930	Dilution strip holder + barcode
67940	Mixing well strip holder + barcode
67951	Mixing well strips; blue (125/box)
24902350	Bronze kit insert
53000180	Barcode labels



DYNEX Technologies
Corporate Headquarters
14340 Sullyfield Circle
Chantilly, VA 20151-1621 USA
703.631.7800 Phone
703.803.1441 Fax
800.288.2354 U.S. Toll-free
customerservice@dynex.com



DYNEX Technologies Ltd.
Worthing, UK
adminuk@dynex.com

DYNEX Technologies GmbH
Denkendorf, Germany
dynexgermany@dynex.com

DYNEX Technologies, Inc.
Hong Kong
dynex-asia@dynex.com

Physical Specifications

Dimensions	Metric	Non Metric
Width:	125 cm	50 in
Depth:	90 cm	36 in
Height:	123 cm	49 in
Footprint:	1.16 sq m	12.5 sq ft
Bench Weight:	213 kg (max.)	469 lbs (max.)
Ship Weight:	296 kg (max.)	650 lbs (max.)
Noise:	Noise output < 70 dB	

Power Supply Requirements

Voltage:	100 – 240 V automatic switching
Frequency:	50/60 Hz
Power Consumption:	Typically 400 VA (online UPS required)

System Specifications

Number of Plates:	12 (additional continuous load capability)
Sample Capacity:	200 (additional continuous load capability)
Continuous Sample Loading:	Yes
Sample Tube Size:	10 mm – 17 mm diameter 45 mm – 100 mm height
Number of Reagents:	Up to 16 different SmartKit® reagent packs simultaneously (additional packs can be added using continuous load capability)
Number of Standard/Control Bottles:	Included in each SmarKit reagent pack
Dilution Wells Capacity:	Up to 384 deep-well strips (48 x 8)
Sample Tip Capacity:	Up to 2,240 (20 x 112 with additional continuous load capability)
Reagent Tip Capacity:	Up to 98 tips (additional continuous load capability)

Reader Specifications

Photometric Range:	0.000 – 3.500 OD
Spectral Range:	405 nm – 690 nm
Filter Slots:	6 wavelength
Precision:	± 0.010 OD at 0.000 – 0.500 OD < 1% CV at 0.501 – 2.000 OD < 1.5% CV at 2.001 – 2.500 OD
Accuracy:	± 0.01 or 2.5% (0.000 – 3.000 OD) whichever is greater
Read Time:	< 30 seconds, single wavelength < 50 seconds, dual wavelength

Washer Specifications

Manifold Configuration:	8-way wash head
Programmable Volumes:	50 µL – 999 µL
Wash Buffer Capacity:	4 wash bottles at 3.0 L, with quantitative level-sensing
Residual Wash Volume:	< 3 µL per well with dual-axis sweep in a flat-bottom well
Dispense Precision:	≤ 5% CV (with 300 µL in a 96 well plate)
Waste Container:	10 L with quantitative level-sensing

Incubator Specifications

Number of Incubators:	12 (6 ambient/6 elevated)
Temperature Range:	RT + 4° C to 45° C (elevated incubator) RT + 4° C (ambient incubator)
Temperature Accuracy:	± 1° C
Shaking:	14 Hz periodic or continuous
Temperature Monitoring:	Yes

Reagent Pipetting Specifications

Reagent Tip Size:	1,200 µL
Reagent Pipetting Volume:	20 µL – 1,200 µL
Reagent Pipetting Precision:	≤ 3% CV at 10 shots at any volume in operating range
Reagent Pipetting Accuracy:	± 2% of target volume (single-shot mode)

Sample Pipetting Specifications

Sample Tip Size:	300 µL
Sample Pipetting Volume:	10 µL – 300 µL
Sample Pipetting Precision:	≤ 3% CV (at any operating volume above 10 µL)
Time to Dispense:	11 minutes (typical) 50 µL of 96 samples to plate from sample tubes or deep-well plates
Sample Pipetting Accuracy:	± 2% of target volume
Dilution Range:	1 part in 199 one-stage dilution 1 part in 39,601 two-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:	Agility software
Work Protocols (Assays):	Unlimited
Data Processing:	Quantitative and qualitative
Levey-Jennings:	Yes
Westgard Rules:	Yes
Process Reporting:	Event log + error log
Automatic Error Recovery:	Yes
Password Access Control:	Yes

Attributes and specifications subject to change without notice.



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