

NeuMoDx™ 96 Molecular System

TECHNICAL SPECIFICATIONS



Performance Specifications

Time to first results	~ 60 minutes (DNA) / ~ 80 minutes (RNA)
Tests/hour	Up to 18/hour ¹
Maximum throughput	Up to 144/8 hours ²
Walk-away time	6 hours
Maximum number of tests per run	Continuous, Random-Access
Sample capacity	96 initial load; Continuous, Random-Access Thereafter
Reagent capacity	320 initial load; Continuous, Random-Access Thereafter
NeuDry™ Test Strip stability	Onboard Stability: 10 days ³ Room Temperature Stability: 540 days Multi-well extraction plate may remain onboard until fully utilized, up to 10 days
Results released	Results released continuously after first result
3-Step operation	1. Place specimens, test strips and consumables onto carriers 2. Place carriers on autoloader shelf 3. Press "Load"
Operational flexibility	Continuous Random-Access Perform LDT Qualitative and Quantitative assays simultaneously on demand ⁴ Onboard inventory management Simultaneous use of multiple tube types and sizes Flexible specimen tube compatibility <ul style="list-style-type: none">• Diameter: 11 mm - 18 mm• Height: 60 mm – 120 mm
Barcode symbology	Code 128 Code 39 Code 39 ASCII

¹Future Software upgrades will increase the throughput to ~21/hour.
²Future software upgrades will increase this throughput to ~175/8 hours.
³Future testing anticipated to demonstrate >28 days stability.
⁴Future release planned for IVD menu.

Electrical Specifications	230 V	120 V
Maximum power input	1,920 W	1,920 W
Input voltage	230 VAC+/- 10%	120 VAC+/- 10%
Max current	8 A	16 A
Frequency	50 Hz	60 Hz
Installation category	II	II
Pollution degree	2	2
Degree of protection	IP 00	IP 00

Optical Wavelengths	Excitation (nm)	Emission (nm)
1	470	510
2	530	555
3	585	610
4	625	660
5	680	715 long pass

Physical Dimensions	
Width	137.2 cm (54 in.)
Depth	109.2 cm (43 in.)
Height	109.2 cm (43 in.)
Total weight	272 kg (600 lb)

Environmental Requirements	
Operating temperature	18–28°C
Ambient operating humidity	20-60% non-condensing
Maximum altitude	2,000 m (6,562 ft)
Non-operating temperature	-20–60°C
Non-operating relative humidity	20-90% non-condensing
Noise level	<65 dBA
Operation location	For indoor use only