

## 8 Technical data

### 8.1 Specifications

These specifications assume a maximum load of 15.5 kg (34 lb), including platforms, clamps, glassware and contents.

<b>Shaking</b>	
<b>Speed</b>	• 25 – 500 rpm
<b>Control accuracy</b>	• ±1 rpm
<b>Indication</b>	• Displayed in 1 rpm increments
<b>Stroke/orbit</b>	• 1.9 cm (¾ in) or 2.5 cm (1 in)
<b>Temperature</b>	
<b>Range (I24)<sup>2</sup></b>	• 5 °C above ambient temperature to 60 °C
<b>Range (24R)<sup>2</sup></b>	• 15 °C below ambient temperature (minimum 4 °C) to 60 °C
<b>Control accuracy</b>	• ±0.1 °C at 37 °C
<b>Indication</b>	• Displayed in 0.1 °C increments
<b>Heaters</b>	• Long-life, low-watt density resistance-type heater with high temperature thermostat
<b>Dimensions and weight</b>	
<b>Width</b>	• 55.8 cm (22 in)
<b>Depth</b>	• Front to back: 76.2 cm (30 in)
<b>Height</b>	• 61.1 cm (24 1/16 in) • With lid open: 101.9 cm (40 1/8 in)
<b>Chamber width</b>	• 51.7 cm (20 3/8 in)
<b>Chamber depth</b>	• 53.3 cm (21 in)
<b>Chamber height</b>	• 34.4 cm (13 9/16 in)
<b>Platform width</b>	• 46 cm (18 in)
<b>Platform depth</b>	• 46 cm (18 in)
<b>Weight</b>	• 24 weight: 62.7 kg (138 lbs) • 24R weight: 83.6 kg (184 lbs)
<b>Altitude limit</b>	• 2000 m
<b>Alarms</b>	• Visible and audible warning indication when speed deviates more than 5 rpm or temperature more than 1°C from setpoints, and when timer has expired. Audible alarm can be muted
<b>LED display</b>	• 1.4 cm (9/16 in)
<b>RS-232</b>	• Data logging
<b>Setpoint retention</b>	• All setpoints and operating status are retained in non-volatile memory

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New Brunswick™ I24/24R Benchtop Incubator Shaker  
English (EN)

<b>Automatic restart</b>	<ul style="list-style-type: none"> <li>• Automatic restart after power is restored, indicated by flashing display</li> </ul>	
<b>Drive</b>	<ul style="list-style-type: none"> <li>• Triple eccentric counterbalanced drive with nine permanently lubricated ball bearings</li> </ul>	
<b>Drive motor</b>	<ul style="list-style-type: none"> <li>• Solid-state brushless DC motor</li> </ul>	
<b>Safety</b>	<ul style="list-style-type: none"> <li>• Independent mechanical sensing <i>tilt switch</i> shuts off the motor in an unbalanced condition</li> <li>• Drive Interrupt shuts off power to shaker when door opens</li> <li>• Acceleration/deceleration circuit prevents sudden starts and stops, minimizing both splashing and mechanical damage</li> </ul>	
<b>Electrical requirements</b>	<ul style="list-style-type: none"> <li>• 120 V, 60 Hz</li> </ul>	I24: 800 VA per shaker 24R: 1500 VA per shaker
<b>ETL regulatory standards</b>	<ul style="list-style-type: none"> <li>• UL61010A-1</li> <li>• UL61010A-2-010</li> </ul>	<ul style="list-style-type: none"> <li>• CAN/CSA-C22.2 No 1010.1</li> <li>• CAN/CSA-C22.2 No 1010.2.010</li> </ul>