

## 6 APPENDIX

*This section contains additional information of interest, but not essential to the operation or care of your I Series shaker.*

### 6.1 Specifications

<b>SHAKING</b>	
<b>Speed</b>	25-500 RPM
<b>Motion</b>	¾ inch (19 mm) diameter circular orbit
<b>Indication</b>	LED digital electric display, 1 RPM increments
<b>Setpoint &amp; Control</b>	Digital adjustment with PI microprocessor control and instantaneous visual feedback
<b>Accuracy</b>	± 1 RPM
<b>DRIVE</b>	
Triple eccentric counterbalanced ball bearing drive	
<b>TEMPERATURE</b>	
<b>Range</b>	5°C above ambient to 60.0°C (I-2400)
<b>Range with Cooling</b>	5°C above coolant using cooling coil accessory (option)
<b>Control Stability</b>	± 0.1°C by use of PI microprocessor controller and pulse width modulation of heater
<b>Setpoint</b>	Digital adjustment increments within 0.1°C instantaneous visual feedback
<b>Accuracy</b>	± 0.1° @ 30-40°C range
<b>Uniformity</b>	± 0.5° for remaining range
<b>Safety</b>	Better than 0.5°C Heater shuts off if temperature exceeds operating range
<b>Heater</b>	Low watt density resistance heater with high temperature safety thermostat
<b>TIMER</b>	
<ul style="list-style-type: none"> <li>• Programmable shaking periods from 0.1 to 99.9 hours by a digital timer that shuts off at the end of period and energizes status light.</li> <li>• Timer counts down and digital display indicates remaining time.</li> <li>• Can be deactivated for continuous operation.</li> <li>• Additionally, unit will display total accumulated running time for service information.</li> </ul>	
<b>OPERATING AMBIENT ENVIRONMENT</b>	
0° - 40°C, 90% humidity, non-condensing.	

<b>SELF-DIAGNOSTIC STATUS</b>	
Warning signal (audible and visible) indicates when shaking speed deviates more than 5 RPM or the temperature deviates more than 1.0°C from set point and when timer operation has expired. Audible alarm can be deactivated/activated by the operator.	
<b>AUTOMATIC RESTART</b>	
Unit will automatically restart after undesired power interruption. Setpoints are maintained by non-volatile memory. Interruption is indicated by a flashing display.	
<b>MOTOR</b>	
1/15 HP, 3 phase brushless ball bearing DC motor.	
<b>ELECTRICAL SERVICE</b>	
<b>Voltage</b>	120V, 60 Hz
<b>VA Requirements</b>	600 VA for I-2400
<b>DIMENSIONS</b>	
<b>Width</b>	21 inches (53.4 cm)
<b>Depth</b>	27½ inches (69.9 cm)
<b>Height</b>	19¾ inches (50 cm)
<b>CONSTRUCTION</b>	
Heavy gauge steel, phosphate-coated and texture painted cabinet. See-through plastic cover.	
<b>WEIGHT</b>	
<b>Net</b>	150 lbs (68 kg)
<b>Gross</b>	200 lbs (91 kg)
<b>PLATFORM DIMENSIONS</b>	
18 inches X 18 inches (46 cm x 46 cm), Phenolic composite.	
<b>CHAMBER DIMENSIONS (interior)</b>	
<b>Width</b>	19¾ inches (50.2 cm)
<b>Depth</b>	19 inches (48.3 cm)
<b>Height</b>	13¼ inches (33.6 cm) above the platform

## 6.2 Available Platforms

### 6.2.1 Easy Load Platform Option

Quick-change platform option is available. This easy-load accessory enables the user to snap-in platforms without tools or hardware.

The kit (NBS #M1192-9901) includes a sub-platform with spring clips, and extra counterweight and hardware. The kit does not include a platform. Once installed, a speed of 25-400 rpm is recommended.

The package should be installed by a qualified Service Engineer.