# Appendix A
# Specifications

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|---|---|
| **Input Power** | |
| 100–120 VAC | 100-120 VAC; ±10%; 50–60 Hz |
| | Fuse: 8.0 A; 5 x 20 mm; Type T |
| 220–240 VAC | 220-240 VAC; ±10%; 50-60 Hz |
| | Fuse: 4.0 A; 5 x 20 mm; Type T |
| Power | 670 Watts; 910 VA (max.) |
| | 200 Watts (typical) |
| **Environmental** | |
| Operating | 18–28°C |
| Ambient Storage | -20°C to 60 °C |
| **Block Temperatures** | |
| Range | 4–100°C |
| Cycling Speed | with 20ul sample in a 0.2 ml tube, after full warm up, when cycling between 50°C and 95°C; at least 2.5°C/sec maximum heating rate and 1.5 °C/sec maximum cooling rate. |
| Storage Cooling | Less than 3 minutes to cool from 40°C to 4°C |
| Overshoot | less than 0.5°C |
| Accuracy | ±0.5°C to NIST traceable standard after 30 seconds at 90°C, block mode |
| Uniformity | Well-to-well uniformity of ± 0.5°C within 30 seconds after arrival at 90°C. |
| **Temperature Gradient** | |
| Input Gradient Range | 1–25°C |
| Functional Gradient Range | 5–25°C |
| Minimum Temperature of Gradient | 30°C |
| Maximum Temperature of Gradient | 99°C |
| Gradient Accuracy | +/-0.5 |
| Gradient Uniformity | +/-0.5 |
| **Descriptive Specifications** | |
| Dimensions, | |
| Chassis (HxWxD) | 20.5 x 23.6 x 44.3 cm (8.1 x 9.3 x 17.5“) |
| Weight | 10 kg (22 lbs.) |
| Sample Capacity/ | 96 wells/ 0.2 ml each |
| Sample Size | |
| Display | LCD high resolution screen |
| Chassis | ABS plastic |

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| **Programming Specifications** | |
| No. of Programs | 99 on board |
| Cycles/Protocols | up to 9 |
| Steps/Cycles | up to 9 |
| Repeats/Cycle | up to 99 |
| Dwell Time | 00:01-99:59 minutes |
| Pause | Yes |
| Built-in Protocols | Templates for cycling sequencing, Touchdown, RT PCR, Nested PCR, Gradient temperature PCR, long PCR |
| **Regulatory** | |
| PCR Licenses | Authorized Thermal Cycler<br>**Note**: Use of the MyCycler with authorized reagents also provides a limited PCR license in accordance with the label rights accompanying such reagents. Some applications may require licenses from other parties. |
| Safety | EN-61010, TUV approved |
| EMC | Compliance with EN61326 + A1 |
| **Communications** | USB ports |
| **Electrical Approvals** | TUV |