



## Appendix VI: QwikCheck GOLD Equine System Specifications

Dimensions: 29 X 24 X 20 cm (length X width X height); Weight: 4.15 kg  
AC power supply: 100 to 250 VAC, 50/60 Hz, 10 VA

### Measurement Compartment

- **Sources of radiant energy** - two 880 nm LEDs for motility and spectrophotometry channels
- **Detector system** - 2 photo detectors - Motility and Optical Density

### Display

- Operational backlight LCD (16 lines x 40 characters)

### Printer

- External label printer
- Thermostatic label paper with ~30 characters per line (Brother)

### Keypad

- **Operational keys:** ON/OFF, TEST, PRINT, SERVICE, DELETE, ENTER, four cursor buttons, ESC, numeric buttons (0-9)

### Front Panel

- LCD operational display
- Measurement compartment
- Multi-button keypad

### Rear/Side Panel

- Power connector with fuse-holder (fuse 250V, 1A)
- RS232 cable outlet
- I-Button port (side panel)

### Specimen Testing Supplies

- **Measurement capillary:** Disposable, multi-use plastic testing capillary (purchase from manufacturer).
- **I-Button:** Required to run tests (purchase from manufacturer)

### Operating System

- **Control:** Keypad
- **Analysis Time:** 60 seconds pre-heating + 45 seconds testing
- **Software:** Resides on flash memory and drives all man-machine interface functions, runs algorithms for test measurements and operational screens. System can be upgraded from a PC CD-ROM.
- **Sample Testing Temperature:** 37°C (98.6°F).
- **Motility channel input signal:** Analog, up to 5V.
- **Spectrophotometer channel input signal:** Modulated (1 kHz) analog, up to 5V.

### Quality Control

- **Internal:** Electronic Self-Test

### Operational Temperature and Humidity

- System is operational at 15-40°C.
- **NOTE:** QwikCheck GOLD Equine operates in a wide range of ambient temperatures however the system is calibrated to measure semen samples at 37°C (98.6°F).
- System is fully operational at up to 80% humidity and 31°C.



### **Maintenance Schedule**

- Cleaning daily and after every 10-15 tests (refer to User Guide – "Cleaning Instructions").

### **Manufacturer Recommendations**

- Operate the QwikCheck GOLD Equine system away from devices that may cause electronic noise (cell phones) or other devices causing vibrations such as centrifuges.
- Turn system **OFF** at the rear-panel when not in use for extended period of time.
- Semen is considered a biologically hazardous material and is subject to individual laboratory protocols for handling such materials.

### **Factory Default Settings:**

**Date format:** DD/MM/YY

**Time/Date:** Manufacturer's local time/date

**Auto printing:** YES