



BioScreen MS-2000 - Chemistry Analyzer

(lower right inset: shown with Mosquito aspiration flow cell accessory and optional STAT TRACKS™ PC program)

Features

- Bichromatic optical system with six wavelengths including 340nm
- Pre-programmed calculations for both kinetic and endpoint assays
- Twelve-station 37°C incubation block and temperature controlled read cell
- Easy to use with step-by-step prompting and built-in thermal printer with graphics capability
- Large non-volatile memory to store more than 50 curves and test parameters

Options & Accessories

- BioScreen CASE-durable carrying case
- Redi-Check® to monitor accuracy, linearity, and repeatability of BioScreen Chemistry Analyzers
- Stat Tracks™ PC software for data management and reporting

Mosquito® Aspiration Flow Cell

- Powered from the BioScreen Chemistry Analyzer
- Keyboard selectable read volume from 250µl to 500µl
- Software controlled with user prompts
- Internal, extra-quiet, vacuum pump
- All cables and connectors are included



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BioScreen MS-2000 Chemistry Analyzer specification

Photometric

Linear Measurement Range:	-0.20 to 2.50 Absorbance Units (A)
Photometric Accuracy	+/- (1% of the reading + 0.005 A)
Stability:	drift of no more than 0.005A in 8 hours/bichromatic
Light Source	tungsten halogen lamp, with lampsaver feature
Standard Wavelengths:	340, 405, 450, 492, 545, 600nm (alternate filters from 340 to 700nm can be custom ordered)
Type of Filter:	multiple cavity hard coat interference, 10nm half bandpass
Tube Size:	Std. is 12mm round
Minimum Full Volume	1mL for 12mm tube, 250µL with Mosquito accessory

Electronic

Display:	alpha numeric, 16 character red LED
Printer:	thermal, dot matrix, 20 characters per line, plus graphics
Keyboard:	16-key, domed membrane switch, enunciating
Power Requirements:	115 V or 230V AC, 50-60 Hz (switch selectable)
Microprocessor:	Z80A or Z180

Software

Speed:	reads, calculates and prints results in 3 seconds/tube
Calculation Modes:	single point calibration by standard or factor, uptake,
Test Menu:	multi point calibration with point to point curve fit, rate by standard or factor (batch or singly) More than 50 open channels to store tests. Stores all parameters including wavelengths, calculations, unit codes, linear and normal ranges, rate timing, standard values, test names, and previous standard curve

Other

Temperature:	37°C, block stays on, cell has on/off switch.
Enclosure:	painted flame retardant ABS plastic cover with metal base
Dimensions:	approx. 9 x 12 x 3 in. (23 x 30 x 8cm), 15lbs, (6.8kg)
Certifications:	CE Mark

Mosquito ® Aspiration Flow Cell specification

Cell

Minimum Aspiration Volume:	250µl at 7" of vacuum
Other Volume Options:	300,350,400,450. and 500µl
Illuminated Volume:	33µl
Equivalent Pathlength:	1cm path
Carryover:	0.2% at 500µl and 1 cps 0.8% at 250µl and 1 cps
Cell Body:	316 Stainless
Windows:	1mm Pyrex®

Control Module

Power Input:	12V DC/.7A from analyzer
Valve:	Silicone pinch type
Vacuum Sensor:	Piezoresistive bridge type
Vacuum Regulation:	Better than 0.25" of Hg
Vacuum Pump:	12V DC/0.7, 1 liter/min
Full Sensor:	Stainless - conductivity probe