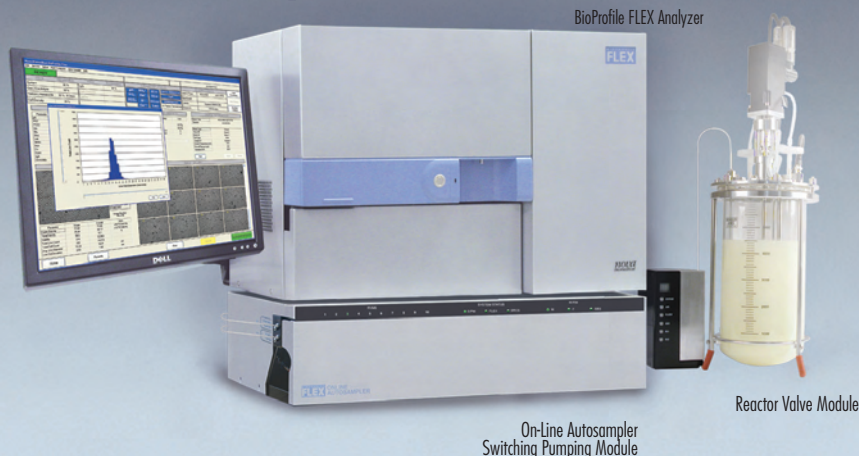


BioProfile FLEX The Power of One Specifications

19 inch Touch Screen with articulating arm and optional left or right side mount



Sample Analysis Time	2.5 minutes (Gases only) 4.0 minutes (Chemistry/Gas & Osmolality) 6.25 minutes (All 15 tests)
Operating Temperature Range	15-30°C (59-86°F)
Operating Relative Humidity Range	20-85%
Sample Size	1 mL (for all modules)
Sampling Options	Individual via syringe/cup Automated batch using 20-position sampling tray On-line, automated from up to ten bioreactors
Host Computer Operating System	Windows XP
Electrical Requirements	90-264 VAC, 50 to 60 Hz (Universal Power Supply)
System Size: Height: 20 in (50 cm), Width: 26 in (66 cm), Depth: 20 in (50 cm)	
System Weight: Analyzer: 94 lbs (42.6 kg) without reagents	
Host Computer Monitor Weight/CPU: 41.5 lbs (18.8 kg)	
Safety Certifications: TUV, IEC 61010-1:2001, Quality Systems Certification: TUV: ISO 9001:2000	
FDA Registered, OPC Compliant, PAT Compatible, 21 CFR Part 11 Compliant	

On-Line Autosampler

Switching Pumping Module

Height: 8.86 inches (22.5cm), Width: 27.4 inches (69.5cm)
Depth: 19.4 inches (49.3cm), Weight: 35 lbs (16 kg)
Electrical requirements 110/230 VoltAC, 50/60 Hz
Automated sampling from up to 10 bioreactors

Reactor Valve Module (RVM)

Height.....7.5 inches (19.5cm)
Width.....4 inches (10.16cm)
Depth.....5.75 inches (14.6cm)
Weight.....4 lbs (2 kg)
Electrical requirements Supplied by Switching Pumping Module
Requires one RVM per bioreactor

Chemistry/Gas Module

Assay	Measurement Range	Resolution	Method
Glucose	0.2–30.0 g/L*	0.01 g/L	Biosensor
Lactate	0.2–10.0 g/L*	0.01 g/L	Biosensor
Glutamine	0.2–12.0 mmol/L*	0.01 mmol/L	Biosensor
Glutamate	0.2–12.0 mmol/L*	0.01 mmol/L	Biosensor
Ammonium	0.2–25.0 mmol/L	0.01 mmol/L	Direct ISE
pH	5.000–8.000	0.001	Direct ISE
PCO ₂	3.0–300.0 mmHg	0.1 mmHg	Direct ISE
PO ₂	3.0–800.0 mmHg	0.1 mmHg	Clarke Electrode
Sodium	40–220 mmol/L	0.1 mmol/L	Direct ISE
Potassium	1.0–100.0 mmol/L	0.01 mmol/L	Direct ISE
Calcium	0.10–10.0 mmol/L	0.01 mmol/L	Direct ISE

Calculated Tests: O₂ Saturation; CO₂ Saturation; Temp. Corrected pH, PCO₂, PO₂

*Ranges Reflect User Selectable 1:2 Dilution

Osmolality Module

Assay	Measurement Range	Resolution	Method
Osmolality	0–1500 mOsm/kg	1 mOsm/kg	Freezing Point

Cell Density/Viability Module

Assay	Measurement Range	Resolution	Method
Diameter	8 – 50 µm	N/A	Digital Imaging
Density	50,000 – 100,000,000 cells/mL	N/A	Digital Imaging
Viability	0 – 100%	N/A	Digital Imaging

IgG Module

Measurement Range: 0.10–10 g/L

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Specifications subject to change without notice.

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