

TECHNICAL SPECIFICATIONS

For miniSED® Automated ESR Analyzers



miniSED® is a single position, fully automated ESR analyzer that works directly from the primary EDTA tube and significantly improves laboratory efficiency with results in 15 seconds, minimal hands on time, and superior sample stability.

Device Specifications

Device Description	Automated benchtop analyzer for the determination of erythrocyte sedimentation rate of human whole blood
Principle of Measure	Photometric rheology
Dimensions (D x W x H)	36 x 19 x 24 cm (14 x 7.5 x 9.5 in) <i>Includes bottle tray</i>
Weight	4.5 kgs (10 lbs)
Analytical Range	1-130 mm/hr
Test Time	15 seconds
Time to First Result	3 minutes mixing time + 15 seconds
Results	Results can be printed, saved to on-board storage, exported to USB, and/or transmitted to the LIS
Onboard Result Capacity	>1 million
Supported Languages	English, French, Italian, German, Spanish, Portuguese (BR, PT), Russian

Sample Handling

Test Throughput	Up to 180 tests/hour
Sample Capacity	1
Sample Type	K2/K3 EDTA whole blood in 13 x 75 mm tubes with pierceable caps
Sample Stability	28 hours stored at room temperature (18-25°C) or 48 hours refrigerated (4-8°C)
Primary Tube Sampling	Yes (primary tubes must be capped)
Mixing	Rocker or optional onboard mixing
Sample Volume	Approximately 500 µL (varies by primary sample tube)
Analytical (Aspirated) Volume	100 µL

Maintenance

Daily	None required by manufacturer
Monthly	Deep cleaning (<1 minute of hands-on time required)

General Specifications

Power Supply	Transformer: 100-240 VAC 50/60Hz; Device 24VDC, 2.5A
Power Consumption	60W
Wash Requirements	Automatic washing; onboard miniWASH® Wash Fluid
Drain Requirements	None; onboard miniWASTE® container
LIS Connectivity	LAN/IP**, uni-directional
Barcode Reader	Internal
Printer	Optional external
Operating Environment	10 - 30°C (50 - 86°F)
Storage/Transport Environment	-20 - 65°C (-4 - 149°F)
Humidity	15% - 85% (non-condensing)
Frequency	50-60 Hz
Overvoltage Category	Category II
Operational Altitude	Up to 4000 meters
Storage Altitude	Up to 4000 meters
Degree of Pollution	2
Compliance	Complies with international environmental, health & safety standards, including UL, CE & RoHS
Restrictions	For Professional Use Only Classified as moderately complex under CLIA regulations (42 CFR 493)

Quality Control

QC Material	SEDiTROL® Quality Control: Bi-level, human-based, whole blood controls in ready-to-use, barcoded tubes 4.0 mL test tubes
Storage	Room temperature
Shelf Life	Up to 18 months
Open Vial Stability	Up to 60 days, room temperature
Quality Assurance Program	iQAP Peer Reviewed Quality Assurance Program available
Calibration	Factory calibrated by ALCOR® Scientific- no end user calibration required

SALES

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SERVICE AND SUPPORT

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