

TECHNICAL SPECIFICATIONS

For iSED® Automated ESR Analyzers With Serial Numbers >5000



iSED® is a compact fully automated erythrocyte sedimentation rate (ESR) analyzer that is highly correlated to the Westergren method and significantly improves laboratory efficiency by reducing hands-on time, generating results in 20 seconds, and offering the longest 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)	35 x 27 x 36 cm (13.78 x 10.63 x 14.17 in) Includes sample return tray
Weight	12.1 kgs (26.7 lbs)
Analytical Range	1-130 mm/hr
Test Time	<20 seconds
Time to First Result	3 minutes onboard mixing time + 20 seconds
Results	Results are reported in mm/hr and can be printed, stored in the analyzer, exported to USB, and/or transmitted to the LIS
Onboard Result Capacity	>1 million
Supported Languages	English, French, Italian, German, Spanish, Portuguese (Portugal and Brazil), Russian

Sample Handling

Test Throughput	Up to 180 tests/hour
Sample Capacity	20
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)
Random Access	Yes
Primary Tube Sampling	Yes (primary tubes must be capped)
Mixing	Automated 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 iWASH® Wash Fluid
Drain Requirements	None; onboard iWASTE® Container
LIS Connectivity	LAN TCP/IP or Serial RS-232 DB9 port
Barcode Reader	Internal
Printer	Internal
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 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

+1.401.737.3774

info@alcorscientific.com

SERVICE AND SUPPORT

+1.401.737.3774

techservice@alcorscientific.com

20 Thurber Boulevard
Smithfield, RI, 02917
USA

ALCORSCIENTIFIC.COM

