

TECHNICAL SPECIFICATIONS

For iSED® PRO Automated ESR Analyzers



iSED® PRO is a fully automated, rack-compatible erythrocyte sedimentation rate (ESR) analyzer for high volume testing that significantly improves laboratory efficiency and logistics.

Device Specifications

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| Device Description | Automated analyzer for the determination of erythrocyte sedimentation rate of human whole blood |
| Principle of Measure | Photometric rheology |
| Dimensions (D x W x H) | 49.5 x 55.3 x 67 cm (13.78 x 10.63 x 14.17 in) |
| Weight | 38 kgs (83.77 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 |

Sample Handling

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| Test Throughput | 191 samples per hour (based on cycle time) |
| Sample Capacity | 120 samples (12 hematology racks) |
| Rack Compatibility | Sysmex XN Series, Mindray BC Series, Horiba Yumizen Series |
| 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

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| Daily | None required by manufacturer |
| Weekly | Automatic deep cleaning: no operator intervention required |

General Specifications

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| Power Supply | Transformer: 100-240 VAC 50/60Hz; Device 24VDC, 2.5A |
| Power Consumption | 500W |
| Wash Requirements | Automatic washing; onboard iWASH® PRO Wash Fluid |
| Drain Requirements | None; onboard iWASTE® PRO Container |
| LIS Connectivity | LAN TCP/IP or Serial RS-232 DB9 port |
| 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 CE & RoHS |
| Restrictions | For Professional Use Only Classified as moderately complex under CLIA regulations (42 CFR 493) |

Quality Control

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|----------------------------------|---|
| QC Material | SEDiTROL® Quality Control: Bi-level, human-based, whole blood controls in ready-to-use, barcoded tubes 4.0 mL test tubes stored onboard analyzer |
| 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 |

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