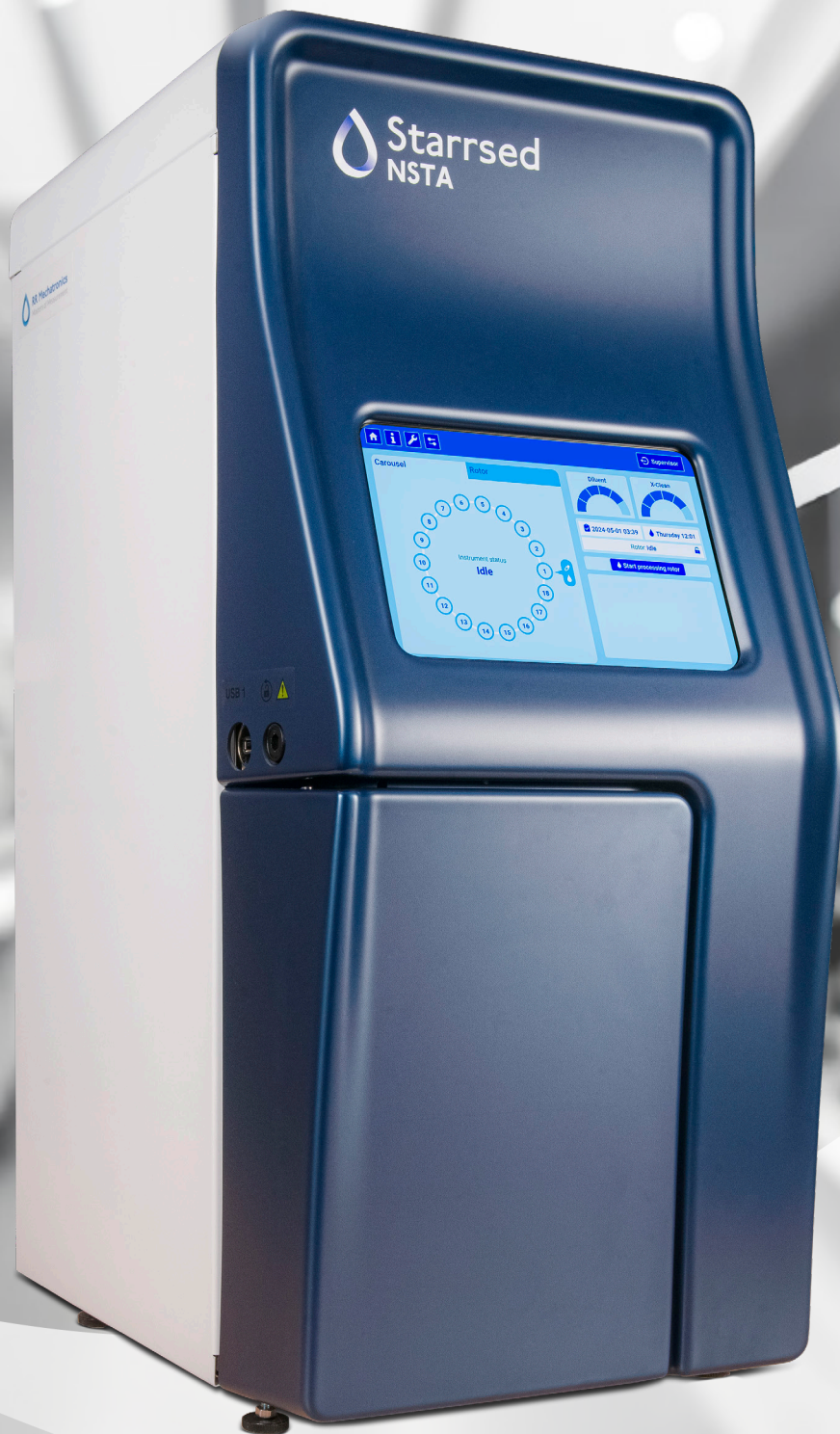


Starrsed NSTA



Model name

Starrsed NSTA

Catalogue number

A0030113 (230V/240V)
A0030112 (120V)

Specifications

Allowed blood specimen types	For EDTA mode: Whole blood with < 1 % EDTA anticoagulant	
Automatic dilution	4 vols. blood + 1 vol. Starrsed Diluent	
Reported result	mm/hour	
Throughput	60 minutes method: 18 results/hour 30 minutes method: 36 results/hour	
Reagents	QRR 010931 Starrsed Diluent	QRR 010946 Starrsed X-Clean
Controls	QRR 049001 Starrsed Control Level N	QRR 049002 Starrsed Control Level A
Aspirated blood volume per sample	1.3 ml	
Sample tube types	Tubes according CLSI Standard AUTO-01 for 13 x 75 mm specimen containers	
Barcode reader type	CCD	
Communications (LIMS)	Ethernet (TCP/IP) bi-directional according various protocols	
Mains voltage	120V/230V/240V, 50/60 Hz	
Rated power consumption	200 VA	
Typical power consumption	Standby 70 VA / Operation 100 VA	
Thermal output	340 BTU/hr	
Sound level	Less than 65 dBA	
Ambient temperature	18 - 25 °C	
Relative humidity	20- 80 %	
Total Dimensions (W x D x H)	335 x 455 x 745 mm	
Table size (W x D)	500 x 550 mm (with diluent packaging below the instrument)	
Weight	[32 kg]	

Literature

ESR method	Jou, J.M. (2011) ICSH review of the measurement of the erythrocyte sedimentation rate , Int. Journal of Laboratory Hematology, 33: 125-132 CLSI (2011) Procedures for the Erythrocyte Sedimentation Rate Test , Approved Standard- Fifth Edition H02-A5, Vol. 31 No. 11
Temperature compensation method	Manley, R.W. (1957) The effect of room temperature on ESR sedimentation rate and its correction , J. clin Path, 10, 354-356
30 minute method	Rogers, R. (1994) The development of 30 minute ESR on the Starrsed ESR Analyzers , Medical Laboratory World
Whitepaper	A classic gold standard: The Westergren method for ESR measurement

- Automated ESR analyzer
- Gold Standard Westergren
- Small Footprint
- Stand Alone

Starrsed NSTA

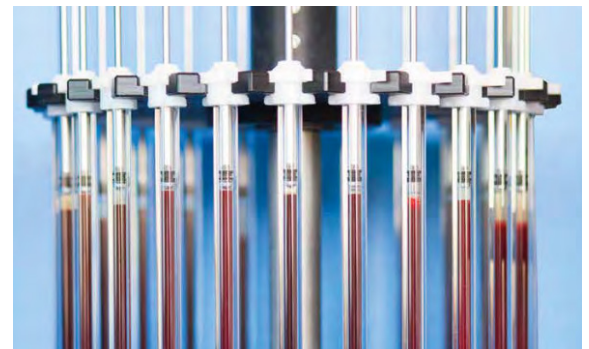
Starrsed NSTA is a Gold Standard ESR Westergren instrument and performs ESR measurement fully automated. The Starrsed NSTA is the perfect instrument for smaller to mid-sized laboratories and offers all the benefits of an automated Westergren measurement. The blood samples are mixed without interference of an operator. After mixing the samples are automatically aspirated.

A built-in barcode reader identifies each sample. The instrument is capable of bi-directional communications with the laboratory information management system (LIMS). The Starrsed NSTA has a fully integrated diluting system, where the blood is diluted with Starrsed Diluent entirely according to the Westergren Method. The diluted blood sample is aspirated in one of the 18 Westergren pipettes.

The Starrsed NSTA is operated with an integrated, intuitive touchscreen. The software provides information about the status of the instrument and shows sample and quality results. The cleaning cycle is performed fully automated by the instrument and besides the Starrsed Reagents no other consumables are required to operate the instrument.

The Starrsed NSTA recognizes blood samples and Quality Controls by its barcode and perform the ESR automatically. Starrsed Control gives you maximum reliability at minimal effort and costs. Control results can be uploaded in the available Starrsed EQAS program.

Carrying out maintenance is very simple and does not take up much labor time. Due to the automated functions of the NSTA, hands-on time is very low.



Westergren Method The Gold Standard

Erythrocyte Sedimentations Rate (ESR) is a sensitive, non-specific marker of inflammation. ESR is used as a “general physical condition” marker, in combination with clinical history, physical examination and other standard laboratory tests. ESR is often one of factors in the follow up of auto-immune diseases, chronic infections and certain types of cancer.

Modern and fully automated instruments, like the Starrsed, have made the ESR test even more accurate and safe in comparison with the manual Westergren version. Several published studies highlight that alternatives to the ICSH and CLSI declared gold standard ESR method, give rise to a large percentage of false negatives and thus the risk of missed diagnoses.





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