



Atellica HEMA 570

Technical Specifications

Atellica HEMA 570 and 580 Analyzers

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Parameters

CBC Results	WBC, RBC, HGB, HCT, MCV, MCH, MCHC, RDW-CV, RDW-SD, MIC%,* MAC%,* PLT, MPV, PCT,* PDW,* NRBC (absolute and %)
Differential Results (Absolute and %)	LYM, MON, NEU, EOS, BAS, ALY,* LIC,* IMG,* IML,* IMM*
Platelet Results (Optical)†	PLTO
Reticulocyte Results†	RET (absolute and %), RETL%,* RETM%,* RETH%,* CRC%, MRV,* MFI,* IRF, RHCC, PIC*

Body Fluid Results

Cerebrospinal, Pleural, Peritoneal, and Synovial Fluids	BFWBC, BFRBC, absolute and % BFMN, BFPN
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Test Selectivity/Throughput

CBC	120 samples/hour
DIFF (incl. NRBC)	120 samples/hour
RET†	60 samples/hour
DIR (incl. NRBC)†	60 samples/hour
CBR†	60 samples/hour
DIFF_LV	60 samples/hour
RBC_PLTO†	60 samples/hour

Sample Modes/Volumes

Automatic Rack Mode (Closed Tube)	110 µL
STAT Mode (Closed/Open Tube)	110 µL

Weight/Dimensions

Atellica® HEMA 570 Analyzer	Weight: 94 kg (207 lb) 73 cm (h) x 87 cm (w) x 67 cm (d) 28.8 in. (h) x 34.3 in. (w) x 26.4 in. (d)
Atellica® HEMA 580 Analyzer	Weight: 99 kg (218 lb) 73 cm (h) x 87 cm (w) x 67 cm (d) 28.8 in. (h) x 34.3 in. (w) x 26.4 in. (d)

*For research use only (RUO).

†Atellica HEMA 580 Analyzer only.

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User Interface Specifications

Computer

WINDOWS Embedded Standard 10 operating system, 250 GB hard drive, 2 GB memory, INTEL Celeron J1900 QuadCore 2 GHz processor, 12.1-inch integrated color LCD touch screen, full-sized keyboard, Ethernet and USB connections

Other Specifications

Automated daily cleaning (startup/after 100 analyses/shutdown); recommended concentrated cleaning weekly or after every 1000 analyses

Performance Specifications

Linear Ranges

WBC	0.1–300 x 10 ³ /mm ³
RBC	0.3–8 x 10 ⁶ /mm ³
PLT	(HGB > 2) 10–2500 x 10 ³ /mm ³ (HGB < 2) 10–5000 x 10 ³ /mm ³
HGB	0.8–24 g/dL
RET%	0.3–35 (%)

Data Management

Database	100,000-patient storage capacity, including graphics
Review and Edit Capability	Atellica® Data Manager enables user-defined windows, user-defined reports, user-defined ranges based on age and sex for normal range, panic, rerun, and delta check criteria
Extensive Quality Control (QC) Management	Z-score, Levey-Jennings graphs, Westgard rules, patient moving average (enabled by Atellica Data Manager), QC file management
Online Documentation	Operator's manual, remote diagnostics

Physical Specifications

Electrical Power Requirements	Voltage: 100–240 VAC (±10%) Frequency: 50–60 Hz
Temperature Requirements	15–30°C. If stored at a temperature lower than 10°C, analyzer should stand for 1 hour at normal room temperature before use.
Relative Humidity	85% maximum, without condensation.
Heat Generation	715Kj/h (675 BTU/h)
Waste Disposal	Direct plumbing or external waste container
Audible Noise	<60 dB at 1 meter

Sample Loading Specifications

Automatic Rack Loading	120-tube capacity (12 racks with 10-tube capacity)
Compatible Tube Types	CAPJECT, CARRIER, GK, INSEPACK, KABEVETTE, MICROTAINER, MICROVETTE, MINICOLLECT, MONOJECT, MONOVETTE, MULTIVETTE, NEO, VACUETTE, VACUTAINER
Barcode Reader	Up to 16 characters
Automatic Discrimination of Label Codes	Interleaved 2-of-5 with or without check digit, Code 39 with or without check digit, Codabar without check digit, Code 128

Precision

Parameter	CV limits (%)	Low Level	Normal Level	High Level		
		Range	CV limits (%)	Range	CV limits (%)	Range
WBC	5	0.3–4 x 10 ³ /mm ³	2	4–10 x 10 ³ /mm ³	2	10–300 x 10 ³ /mm ³
RBC	2.5	0.5–3.6 x 10 ⁶ /mm ³	2	3.6–6.2 x 10 ⁶ /mm ³	1.5	6.2–8 x 10 ⁶ /mm ³
HGB	1.5	2–12 g/dL	1	12–18 g/dL	1	18–24 g/dL
MCV	1	min.–80 fL	1	80–100 fL	1	100–max. fL
PLT	10	30–150 x 10 ³ /mm ³	5	150–500 x 10 ³ /mm ³	3	500–1000 x 10 ³ /mm ³
RET%*	–	–	12	0.5–3 (%)	8	3–max. (%)

*Atellica HEMA 580 Analyzer only.

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Siemens Healthineers Headquarters

Siemens Healthcare GmbH
Henkestr. 127
91052 Erlangen, Germany
Phone: +49 9131 84-0
siemens-healthineers.com

Legal Manufacturer

Siemens Healthcare Diagnostics Inc.
Laboratory Diagnostics
511 Benedict Avenue
Tarrytown, NY 10591-5005
USA
Phone: +1 914-631-8000