# ELite 580

Advanced Hematology Analyzer







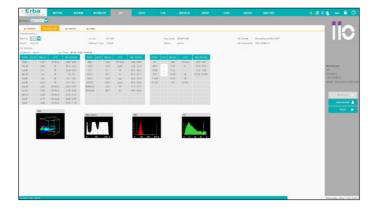
### Erba Lachema s.r.o.

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Erba Hematology Line







# **ELite 580**

#### **Features**

- Compact, powerful and affordable
- 29 parameters, 5-part differentiation
- Up to 80 samples per hour
- 20 µl sampling volume
- Whole blood, capillary blood and prediluted
- Rack closed tubes / manual opened tubes
- Reagent inventory management thru RFID
- Large LCD display ~ 15"
- Connectable to LIS

#### **Parameters**

- WBC, LYM, LYM%, MON, MON%, NEU, NEU%, EOS, EOS%, BAS, BAS%, RBC, HGB, HCT, MCV, MCH, MCHC, RDW-CV, RDW-SD, PLT, PDW, MPV, PCT, P-LCR, P-LCC;
- 4 research parameters: ALY, ALY%, LIC, LIC%
- 1x 3D scattergram, 3x 2D scattergram and 3 histograms

#### Methods of measurement

- Impedance method for WBC, RBC, PLT counting; independent Basophil channel
- Semiconductor-laser-based flow cytometry for white blood cells differential
- Colorimetric method for Hemoglobin using cyanide-free reagent

#### Calibration and control

- 3 modes of calibration: manual, automatic using calibrator, automatic using fresh blood samples
- 3 levels of control blood (low, normal, high) for daily quality control measurement with Levey-Jennings charts
- User definable QC range

## **Technical specification**

#### Parameters

29 parameters, 5 part diff system 1x 3D scattergram 3x 2D scattergram 3 histograms

#### Throughput

Up to 80 samples per hour

#### Sample Volume

20 µl of whole/prediluted blood

#### Sampling Mode

Autosampler: closed tubes Manual sampling: opened tubes

#### Test Mode

CBC CBC+DIFF

#### **Data Storage Capacity**

Up to 100 000 results (including numeric and graphical informations)

#### Communication

LAN port supports HL7 protocol

#### **Power Requirement**

A.C. 100-240 V, ≤300 VA, 50/60 Hz

#### **Operating Enviroment**

Temperature: 15-30°C Humidity: 30-85% Air pressure: 70-106 kPa

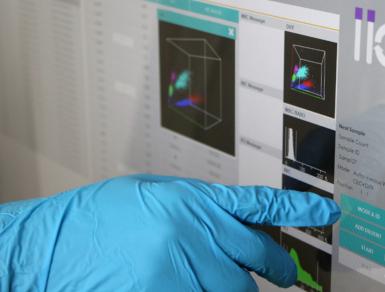
#### Dimension

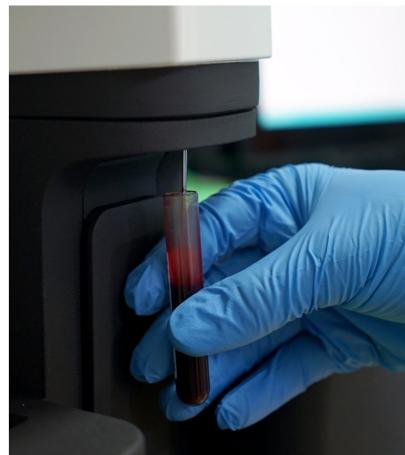
650 x 550 x 610 mm

#### Weight

59 kg







#### Performance

	Carryover	Repeatability	Linearity
WBC	≤ 0.5%	≤ 2.0% (4.0 − 15.0 x10 <sup>9</sup> /L)	0.00 - 300 x10 <sup>9</sup> /L
RBC	≤ 0.5%	≤ 1.5% (3.50 − 6.00 x10 <sup>12</sup> /L)	0.00 - 8.50 x10 <sup>12</sup> /L
HGB	≤ 0.5%	≤ 1.5% (110 − 180 g/L)	0 – 250 g/L
PLT	≤ 1.0%	≤ 4.0% (150 − 500 x10 <sup>9</sup> /L)	0 - 3000 x10 <sup>9</sup> /L