



Clinical Chemistry Autoanalyzer

Small outside big inside



Piccolo Chem

“Piccolo” is the Italian word for small. And Piccolo Chem is small in size, but not inside. It’s the smallest analyzer with the greatest potential in the category, ideal for daily routine and special routine.



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GESAM PRODUCTION SRL

Made in Italy



SIZE/WEIGHT

38 x 60 x 40 cm (W x D x H) 19 kg

OPERATION

Clinical chemistry and turbidimetry
Random access, STAT
System reagents methods preinstalled and validated
Open channels with barcode bottles
Up to 150 tests / hour

SAMPLING ARM

1 sampling needle, 75 mm needle stroke
Capacitive liquid level detector

DILUTER SYRINGE

Long life plunger
Syringe capacity, 500 μ l
Syringe resolution, 0.096 μ l

HYDRAULIC SYSTEM

2 self-priming peristaltic pumps (life 1000 hrs) with replaceable neoprene cassette (life 500 hrs)
Optional 3rd peristaltic pump + aspiration needle to empty reaction cuvettes
Pinch valve
Containers: Water, 2L equipped with level sensor; Waste, 2L
Water consumption: 2 mL/test average

REAGENTS TRAY

Removable reagents rack 20 bottles, 40 ml or 15 ml
Optional multiple reagent trays with worklist automatically managed by the software

CUVETTE ROTOR REACTION CELLS

4 reaction segments of 24, single use, optical cuvettes, total 96
Optical path 9.5 mm,
275 - 500 μ l reaction volume,
100W heating resistance,
temperature sensor

SAMPLES TRAY

Removable tray, 10 numbered positions, tubes of 12 - 13 mm, 5 - 7 mL / cups of 1 mL (cups require a metal adapter for level detection) Optional configuration: 10 reagent positions and 20 sample positions

Touchscreen Technology



OPTICAL GROUP

1 halogen lamp (6 V, 10 W) with extended UV emission,
2 focusing lenses, optical glass 10-position filter disk: 8 positions provided with interference filters of 340, 405, 505, 546, 578, 600, 650, 700 nm wavelengths, 1 free position and 1 solid position for dark reading, ± 2 nm on peak wavelength, 50% bandpass of ± 10 nm
Lamp standby with fast warm up

PHOTO-AMPLIFIER

Photoelectric detector
Signal amplifier response range, 340 nm to 900 nm
Photometric range, 0 to 2.5 Abs Linearity, $\pm 0.5\%$ full scale
Precision: 0.5 CV% or 1 mAbs min. (50 mAbs to 1.500 Abs)
Stability: daily reader offset, less than 1% drift per day

EXTERNAL COMPUTER

Minimum requirements:
- Intel I3 family, 4 GB ram,
- Minimum 900 dots vertical resolution
- Graphics adapter end multi thread processor
- Keyboard, mouse, A4 printer
- Windows 7 or Windows 10 with .NET framework 4.6
- USB port for analyzer connection
- Ethernet LAN port for LIS host communication
- External Laser A4 printer suggested
Software designed for touch screen monitor

POWER SUPPLY

100 - 240 Vac, 50 / 60 Hz, single phase with ground
Fuses: 2 Amp @ 230 Vac, 3.15 Amp @ 115 Vac
Power consumption: less than 150 VA (external PC excluded)
Ground resistance: less than 0.1 Ohm
Leakage current: less than 2.5 mA

ENVIRONMENT OPERATIONS

Operating room temperature: 16 - 30°C, variation during testing not exceed $\pm 2^\circ\text{C}$ (air-conditioning may be required to ensure quality data if temperatures exceed these limits)
Relative humidity: 10% to 80% relative, non-condensation
Pressure: 2000 m of altitude with standard analyzer
Noise generation: < 60 dB (closed covers)