

HumaLyzer Primus

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System Overview

| | |
|----------------------------------|---|
| REF | 18200 |
| Analyzer type | Semi-automatic photometer |
| Reagent system | Open (Human methods pre-installed) |
| Reaction / reading System | Flow cell 32 µl or Cuvette |
| Languages available | English French Spanish Russian |
| User interface | Monochrome LCD 240 x 64 Foil keys |

HumaLyzer Primus

Semi-Automatic Microprocessor Controlled Photometer

| | | |
|--------------|--------------------------------|--|
| Tests | Measuring modes | Photometry (colorimetry, UV-tests, turbidimetry) |
| | Analysis modes | End point Fixed time Kinetic Absorbance Differential |
| | Calibration modes | Factor , 1-point and multi-point (endpoint mono- or bichromatic) |
| | Calculation algorithms | Linear and poly-linear regression |
| | # of standards per test | Up to 8 |
| | # of programmable tests | 60 (39 fixed, 21 free) |

| | | |
|---|-----------------------|---|
| Sample / Control / Calibrator Handling | Sample type | Serum, plasma, urine, CSF and whole blood |
| | Sample vessels | All vessels using the aspiration through flow cell Semi-micro or macro cuvette replacing the flow cell |
| | Pre-Dilution | Manual |
| | Post-Dilution | Manual |

| | | |
|------------------------|------------------------------|------------------|
| Liquid Handling | Liquid transportation | Peristaltic pump |
|------------------------|------------------------------|------------------|

| | | |
|-----------------------------------|----------------------------------|---|
| Reaction unit / Incubation | Positions for incubation | None Optional HumaCube incubator available (REF 17050, 230 VAC / REF 17070, 110 VAC) |
| | Reaction volume (minimum) | 400 µl |
| | Reaction volume (maximum) | 2000 µl |
| | Incubation temperature | 25, 30 and 37°C ± 0.1°C |
| | Incubation time | 5-999 s (in flow cell) |

Reading

| | |
|--|---|
| Optical system | Interference filters |
| Readings | Mono- or bichromatic |
| Light source | Halogen lamp (6V, 10W) |
| Spectral range | 340 - 700 nm |
| Half bandwidth | < 10 nm |
| Wavelengths pre-installed | 340, 405, 500, 546, 620 nm + 2 x optional |
| Max. # of wavelengths installed | 7 |
| Wavelength error (accuracy) | ± 2 nm |
| Detector | Silicon photodiode |
| Absorbance range (linearity) | 0 - 2.5 OD |
| Resolution detector | 0.0001 OD (0.001 displayed) |
| Abs drift | ≤ 0.005/h |
| Precision detector | CV ≤ 1% |

Data processing

| | |
|--------------------------------------|---|
| Memory for | QC, samples, calibrations |
| Memory capacity | 2200 results |
| Reports for | Standard printout, QC, sample results |
| Quality control module | Mean, SD, CV |
| Max. number of control levels | Up to 2 levels per test |
| Warnings | Normal range |
| Printer | Internal thermal printer (20 columns) |
| LIS | RS-232, Serial port (with proprietary protocol) |

General

| | | |
|--|--|----------------------------|
| PC min. requirements | External PC required only for software update or change of language (RS-232) | |
| Physical dimensions (W x D x H) | Instrument without any components: | 36 x 35 x 16 cm |
| | Space required for routine use: | 53 x 55 x 29 cm |
| | Packaging: | 56 x 43 x 32 cm |
| | Weight: | Gross: 8.5 kg, net: 7.0 kg |
| Electrical requirements | 110...220 VAC +/- 10%, 50-60 Hz, 80 VA | |
| Environmental | Operating: temperature 10...30°C, humidity < 70% non condensing | |
| | Transport: temperature 5...30°C, humidity ≤ 93% non-condensing | |
| Wash / waste tank | Waste tank included | |

HumaLyzer Primus

Accessories & Consumables

| Scope of Supply | Quantity | REF |
|--------------------------------|----------|-----------|
| HumaLyzer Primus | 1 | 18200 |
| Aspiration Tube | 1 | 18200/18 |
| Cable Tie for the Pump Tube | 4 | ----- |
| Dust Cover | 1 | ----- |
| Flow Cell (built-in) | 1 | 18200/14 |
| Lamp assembly | 1 | 18200/13 |
| Power Cord | 1 | 18200/75 |
| Pump Tube | 1 | 18200/20 |
| Waste Tube | 1 | 18200/19 |
| Thermal Printer Paper (1 Roll) | 1 | ----- |
| RS-232 Cabel | 1 | 16670/43 |
| Spare Fuse | 2 | 16670/38 |
| User Manual | 1 | 18200/100 |
| Waste Bottle | 1 | 18200/192 |

Accessories

| | REF |
|------------------------------|----------|
| HumaCube 230 VAC (incubator) | 17050 |
| HumaCube 110 VAC (incubator) | 17070 |
| Filter 410 nm | 18200/59 |
| Filter 450 nm | 18200/55 |
| Filter 492 nm | 18200/56 |
| Filter 510 nm | 18200/57 |
| Filter 536 nm | 18200/60 |
| Filter 550 nm | 18200/61 |
| Filter 595 nm | 18200/62 |
| Filter 630 nm | 18200/58 |

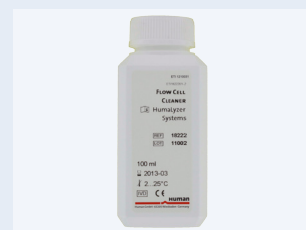
Consumables

| Consumables | Unit/Size | REF |
|---------------------------|-----------|----------|
| Disposable Macro Cuvettes | 1000 pcs | 18052 |
| Flow Cell Cleaner | 100 ml | 18222 |
| Thermal Printer Paper | 5 pcs | 18144/5 |
| Lamp assembly | 1 pc | 18200/13 |



Disposable Macro Cuvettes

REF 18052



Flow Cell Cleaner

REF 18222



Filter 410 nm

REF 18200/59



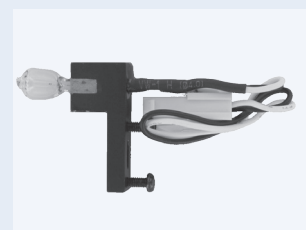
Filter 536 nm

REF 18200/60



Filter 550 nm

REF 18200/61



Lamp assembly

REF 18200/13

Legal statement

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