



CYPRESS DIAGNOSTICS

English Catalog 2015



To all Healthcare Professionals,

Thank you for your interest. We appreciate it!

Cypress Diagnostics provides the tools and solutions that let clinical laboratories worldwide deliver clear and precise diagnostic results.

We manufacture the equipment needed for handling the samples, analyzers to perform the tests, reagents to carry out the tests and - increasingly often - the software platforms to report the results.

Cypress Diagnostics supplies small and medium-sized clinical laboratories.

We are a quality-oriented company with ISO certification and CE-approved products. Our production facility is located in Hulshout, Belgium. Our products are preferred and appreciated by users in more than 100 countries worldwide.

Cypress Diagnostics is a family-owned business, founded in 1995 in Leuven, Belgium.

We work exclusively with selected and trained distributors. We sell high-quality instruments and customer service is an integral part of our quality policy.

All our products come with an aftersales and performance guarantee.

Please feel free to contact our local distributor for more information.

Our latest inserts and catalogs are downloadable on www.diagnostics.be.

Test the difference!

Kind regards,

The Cypress Diagnostics Team



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Biochemistry



Is it possible to deliver high-standard laboratory services with limited resources?

Yes, it is with Cypress Diagnostics.

All our customers face constant pressure to lower operating costs while sticking to best diagnostic practices. Our solutions can solve your challenges too. Please feel free to contact one of our trained distributors for more information.

Why choose the Cypress Diagnostics biochemistry platform?

1. Ease of use
2. High-accuracy testing
3. Wide range of tests
4. Cost savings
5. Smaller sample volume
6. Versatility
7. Intuitive operation
8. Support

Can I use Cypress Diagnostics reagents with other analyzers?

Yes, you can!

Contact our distributor to get our application sheets for the most common biochemistry automates.

What does Cypress Diagnostics mean by support?

We sell high-quality instruments and customer service is an integral part of our quality policy. Our distributors get regular training to ensure that they can provide appropriate technical support for reagents and throughout the lifecycle of the analyzers. This includes installation, training, preventive maintenance, technical advice, and support.

The **CYANPro** and **CYANExpert 130** are only distributed by trained distributors.

What is better for me: liquid stable biochemistry reagents or lyophilized reagents?

We advise all our customers to use **liquid** stable biochemistry reagents whenever possible. Liquid reagents offer more flexibility, the per-test price is cheaper on average and most of the time the stability of the working reagent is longer. They also let you prepare the reagents as you need them instead of in function of the pack size. We strongly advise using lyophilized biochemistry reagents whenever the cold chain is a challenge. Lyophilized kits are more resistant to temperature fluctuations. However, this does not mean that the temperature indications on the products should not be respected!



ISO 9001:2008
ISO 13485:2003

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Semi-Automatic Biochemistry Analyzer



Up to 60 tests/hour

CYANStart

The **CYANStart** is a semi-automatic biochemistry analyzer, our entry-level model. The **CYANStart** is intended for laboratories that focus on quality but have limited budgets, performing a limited number of tests a day.

Cost savings:

- Minimum reaction volume of 500 µl means decreased costs per test
- No consumables required
- Extra items included on delivery (two fuses, five paper rolls and one spare lamp)
- Long life lamp
- Robustness of the analyzer: it guides the user and reduces mistakes

Flexibility:

- On-board printer for printing automatically or on request
- Seven wavelengths (340, 405, 492, 510, 546, 578 & 620 nm filters) cover all clinical diagnostics applications
- Five calculation methods (absorbance, endpoint, two-point, kinetic, bichromatic) and three calibration methods (factor, calibrator, and multi-point calibration) provide plenty of processing options within one system
- Three blank options (sample blank, reagent blank, and water) provide background correction of the reagent and sample coloration

Convenience:

- All Cypress Diagnostics biochemistry reagents are preprogrammed
- 200 open channels are programmable to allow other user-defined tests
- Large font size, easily legible and read with little effort
- Large keypad buttons, easy to use while wearing gloves
- Minimal daily maintenance

Technical Specifications

General:

- Data storage: 200 test methods and 1000 test results
- Flow cell: 32 µl, 10 mm light path
- Halogen lamp: 6V/10W
- Measurement range: 0,000 – 2,500 Abs
- Quality control feature
- Required volume: 500 µl
- Screen size: 240 x 128 pixels
- Voltage: 110/230V - 50/60 Hz
- Languages: English, French, Spanish

Printer:

- Built-in thermal printer
- Prints graphs
- 24 characters per line

Temperature control:

- Peltier element
- 25°C, 30°C, 37°C, ambient temperature

Weight and dimensions:

- 8,5 kg
- 35 x 40 x 24 cm (L x W x H)

Order code:

- CY004: **CYANStart**



ISO 9001:2008
ISO 13485:2003

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CYANSmart

The **CYANSmart** is an easy-to-operate semi-automatic biochemical analyzer. This new in vitro diagnostic instrument is designed to have powerful features in a compact, independent unit.

Cost savings:

- Minimum reaction volume of 500 µl means decreased costs per test
- Limited consumables required
- Extra consumables included on delivery (two fuses, five paper rolls a spare lamp and pump tube)
- Integrated incubator, printer, pump, and Flow cell
- Long life lamp, further extended by power saving / standby mode
- Robustness of the analyzer with minimal daily maintenance
- Analyzer guides the user and so reduces mistakes

Flexibility:

- On-board printer for printing automatically or on request printing
- Seven wavelengths (340, 405, 492, 510, 546, 578, and 620 nm filters) cover all clinical diagnostic applications
- Five calculation methods (absorbance, end point, two-point, kinetic, bichromatic) and three calibration methods (factor, calibrator, and multi-point calibration) provide plenty processing options with one system
- Three blank options (sample blank, reagent blank, and water) provide background correction of the reagent and sample coloration

Convenience:

- All Cypress Diagnostics biochemistry reagents are preprogrammed on delivery
- 180 open channels are programmable to allow for other user-defined tests
- Memory for up to 6000 sample results
- Large font size, easily legible and read with little effort
- LCD touch screen with virtual alphanumeric keyboard
- Multilingual capability
- Minimal daily maintenance



Up to 60 tests/hour

Technical Specifications

Optical system

- Flow cell: 32 µl, 10 mm light path
- Min. reaction volume: 500 µl per test
- Halogen lamp 6V/10W
- Photo detector: Silicon based (range 300 – 900 nm)
- Measurement range: 0,000 – 3,500 Abs
- Wavelength: 340 – 620 nm
- Wavelength selection: Automatic via 7 interference filters: 340, 405, 492, 510, 546, 578 & 620 nm

Flow cell

- 25°C, 30°C, 37°C, ambient temperature
- Peltier element
- Thermostatic control: PID controlled, ±0,5°C

Incubator

- 20 places with 14 mm diameter
- 37°C
- Thermostatic control: PID controlled, ±1°C

Display

- Back-illuminated LCD
- Touchscreen calibration possible
- 800 x 480 pixels (screen size: 7 inch)



Printer

- Automatic or on-demand printing
- Built-in thermal printer
- 24 characters per line
- Prints graphs

Software

- Memory: 180 test methods and 6000 sample test results
- Cypress Diagnostics methods preprogrammed on delivery
- Languages: English, French, Spanish
- QC: 2 controls programmable plus a separate QC results menu with (printable) graphs
- Calculation methods: absorbance, end point, two-point, kinetic, bichromatic
- Calibration methods: factor, calibrator and multi-point calibration
- Blank options: sample blank, reagent blank and water
- Incubation time: 0 – 999 seconds
- Reading time: 3 – 999 seconds

Power supply

- AC 110/220 V 50/60 Hz
- Automatic voltage and frequency switch
- Grounding required
- 2 fuses F2AL250V
- Power: 200 VA, reduced to 140 VA in standby mode
- Power save / Standby mode

Weight and dimensions

- Instrument: 9 kg, 43,5 x 41,5 x 20 cm (H x W x L)
- Packed in box: 11,5 kg, 52 x 43 x 26 cm (H x W x L)

Environmental requirements

- Ambient temperature: 15°C – 30°C
- Storage temperature: 5 – 50°C
- Relative humidity: 30% - 70%

Order code:

- CY009: **CYANSmart**

