

erytra

Technical specifications



TECHNIQUES

- Full ABO/Rh blood group typing (forward and reverse)
- Rh + Kell phenotype
- Weak D
- Cross-matching test
- Unexpected antibody screening
- Identification of unexpected antibodies
- Antibody titration
- Enzyme assays
- Direct Coombs test
- Determination of special antigens

CAPACITY

- 54 reagents
- 36 agitated
- 12 non-agitated (non-agitated reagents can be extended to 48)
- 6 diluents
- 96 samples
- 4 drawers x 2 racks x 12 positions
- 400 DG Gel cards
- Washing solutions
- 8 L DG Fluid A solution (extendable to 16 L)*
- 8 L DG Fluid B solution (extendable to 16 L)*
- 16 L waste solution*

* With optional direct drainage to laboratory

THROUGHPUT

- Maximum throughput: 90 cards/hr (720 results/hr)¹
- Full ABO/Rh blood group typing: 60 samples/hr²
- Antibody screening (I, II, III): 106 samples/hr
- Antibody screening (1 cell): 240 samples/hr
- Type & screening: 48 samples/hr³

Throughput depends on the profiles being processed:
¹ Results obtained with DG Gel Rh Pheno + Kell
² Results obtained with DG Gel ABO/Rh (2D) (profile: A, B, AB, DVI-, DVI+, CII-, N/A1, N/B)
³ Results obtained with DG Gel ABO/Rh (2D) and antibody screening (I, II, III)

DIMENSIONS AND WEIGHT

- Width: 110 cm (43.3 in)
- Depth: 70 cm (27.6 in)
- Height: 175 cm (68.9 in)
- Weight: Approximately 350 kg (772 lb)

POWER SUPPLY

- Voltage: 100-240 V
- Frequency: 50/60 Hz
- Power: 600 W

REFERENCE	PRODUCT LIST	PRODUCT DESCRIPTION
210400	Erytra	A fully automated instrument with a high-processing capacity for pretransfusion compatibility tests using DG Gel cards
213713	Sample holder	Holder to load samples into Erytra and Erytra Eflexis analyzer
233738	Erytra system solution container	Additional container for the diluted system washing solutions (DG Fluid A or DG Fluid B)

This equipment complies with the Directive 98/79/EC of the European Parliament and of the Council on in vitro diagnostic medical devices. CE mark certification

Product registration and availability vary by country. Ask your local Grifols representative for more information.



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High efficiency and flexibility



TYPING

erytra

High workloads handled efficiently

Committed to patient safety

For more than twenty years, Grifols has researched and developed blood typing systems that have enabled millions of safer transfusions to be performed all over the world. No two IH labs are alike; therefore, Grifols offers a scalable range of different instruments that are specifically tailored to suit different processing needs.

Fully automatic, high-throughput, high-capacity instrument

The Erytra instrument is designed to perform pretransfusion compatibility tests using gel technology. The instrument's excellent self-organizing capacity optimally performs all the different steps needed for typing blood groups and identifying unexpected antibodies.

Efficient and flexible

Erytra adapts to your laboratory needs and delivers quick, highly reliable results to help support patient safety.

Quickly ramp up laboratory capabilities with a high-throughput, fully automated instrument



DGgel® Erytra uses the universal DG Gel cards with a 8-well format.





Intelligent organization on 3 different working levels

Erytra makes intelligent use of laboratory space with an upright design achieved by internal elevators and adjustable touchscreen monitor.

The transparent casing provides a clear view of 3 smart, organized, working levels.

The internal back, 2 sample probes, 4 independent incubators, and 2 centrifuges ensure reliable performance.

Level 1: Sample and reagent management - Continuous access

- High capacity of samples and reagents (96 samples and 54 reagents)
- Detection of the presence and diameter of samples and reagents
- Positive identification of samples and reagents
- Clot detection and automatic system recovery
- Arm with two probes. Integrated probe washing station
- Dilution and homogenization of samples by intelligent agitation
- Double dilution station. Automatic washing



Level 1



Level 2



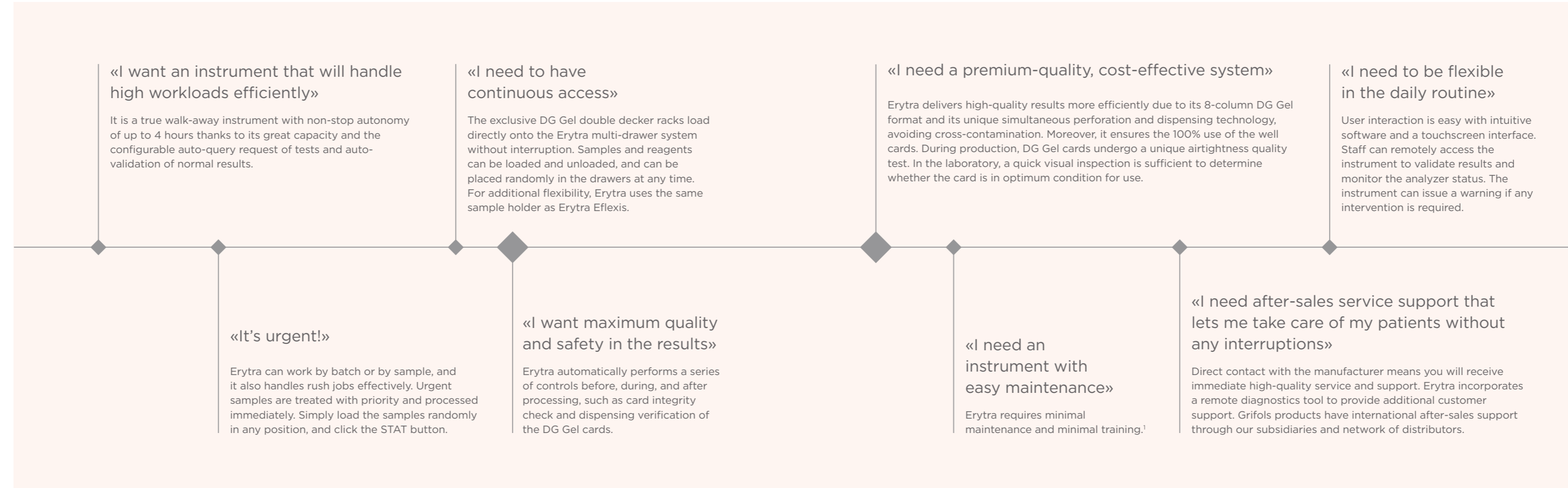
Level 3

Level 2: DG Gel card management - Great capacity to store up to 3200 tests

- High capacity for 400 cards (3200 tests)
- Storage and monitoring of DG Gel cards for daily routine
- Detection of the presence, identification, and transportation of DG Gel cards
- Four independent incubators with automatic intelligent temperature control (25°C and 37°C)
- Configurable service racks for reusing and inspecting DG Gel cards

Level 3: System solutions management - Excellent autonomy

- Stocking of washing and waste solutions and cards. Optional direct drainage
- Monitoring of the level of Erytra solutions and the number of cards used
- Dispensing verification of the DG Gel cards
- Centrifuging of DG Gel cards
- Reading of results



4 sample drawers with 96-sample capacity for continuous loading.



4 card drawers for up to 400 DG Gel cards.



2 reagent drawers with a total capacity of 54 liquid reagents.



Software

The Erytra intuitive software optimally handles the routine work of large immunohematology laboratories.

Real-time information

- Analyzer status and autonomy
- Remaining time for sample completion
- System warnings



Real-time information

Clear results

- Revision of results with a clear, close-up, high-definition picture for extra assurance
- Check of discrepancies. Configurable warnings for results to be reviewed
- Complete traceability report
- Auto-print function of results



Clear results

Safety

- Entire process and results are fully traceable
- System access is password controlled. Configurable roles per user
- Internal checking at different steps of the test procedure
- Configurable quality control policy
- Anti-virus for additional safety



Safety

Remote access

- Database access from any computer with an internet connection
- Validation of results
- View warnings in real time
- Web-based application to monitor status of instrument and samples
- Remote diagnostics tool: technical/specialist support can remotely connect to the system for troubleshooting

Quality control

- Configurable quality control policy
- QC request warning for new lot of reagents
- Dedicated management of QC results



Warnings in real time

Efficient communication

- Bidirectional connection to the LIS (laboratory information system)
- Configurable LIS connectivity and configurable auto-validation function for normal results
- IBSB 128 management