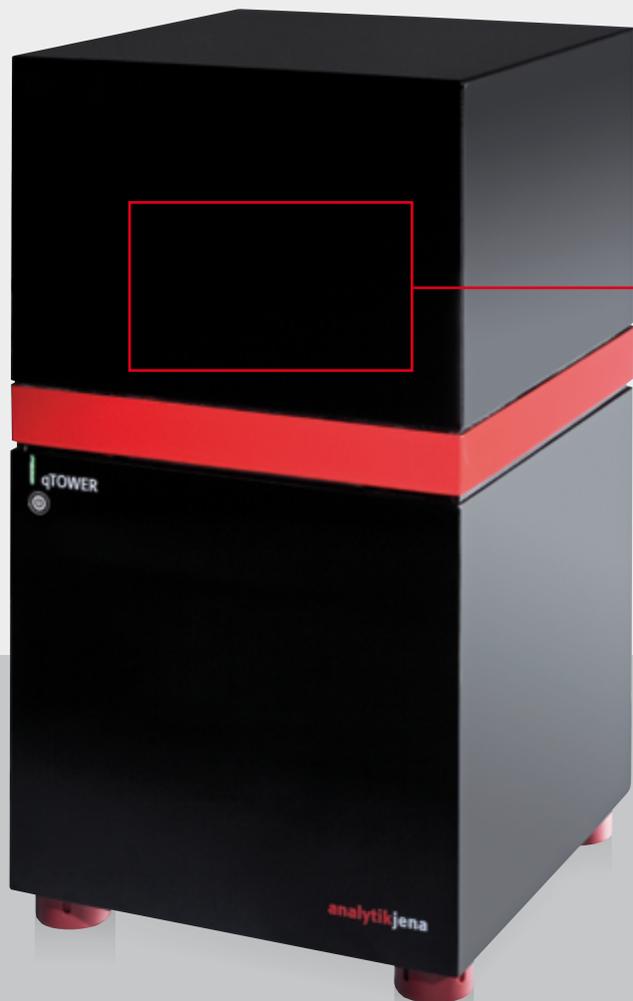


qTOWER | Real-Time *rapid*PCR

- High-End Performance in high-polish look
- Exceptionally High-Speed
- Ideal for daily routine diagnostics



qTOWER | Real-Time *rapid*PCR – 10 years long-term guarantee on components of high-performance optics



Exceptionally speed

- qTOWER – up to 10 times faster than to conventional systems
- unique: qPCR with 96 samples in less than 25 min
- Patented Fiber-Optic-System
- Heating rates unmatched, up to 12 °C/sec and cooling rates up to 8 °C/sec
- Read-out of 96 wells within 4 seconds, independent of number of dyes



Significant cost-cutting

- Cost-cutting up to 75% through optimization of reaction volumes
- Sample consumptions from 5 till 20 µl in 96 micro plate formats through patented consumables
- Consumables with unique energy-transfer-efficient
- Remarkable time saving of the qTOWER: better use of available lab-capacities

Modern control and evaluation software

- qPCRsoft is a flexible and intuitive software for easiest operating
- Variety of methods for data analysis
- Absolute and relative quantification
- PCR efficiency and delta-delta ct method
- Discrimination of allele conditions and determinations of expression ratios

Impressive Design

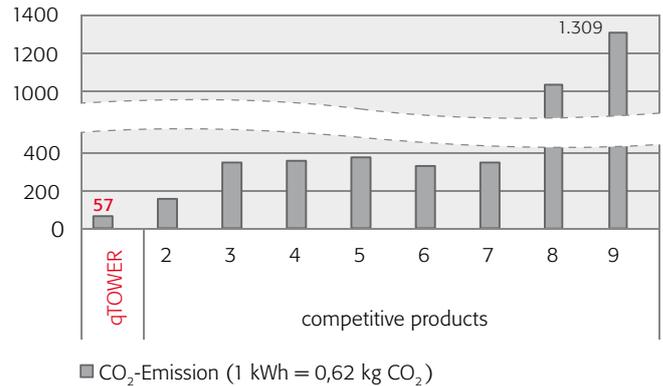
- qTOWER in a unique high-polish look
- Lab improvement through impressive highlight
- Elegant, modern and functional silhouette
- Small foot-print
- Easy to clean, smooth surface

100 % Made in Germany

- Development and production – Made in Germany
- 150 years of optics-tradition in Jena: 10 years long-term guarantee on components of high performance-optics

Environmentally friendly trough excellent energy efficiencies

- Consequently renouncement of environmentally hazardous substances like lead, mercury, cadmium, Hexavalent chromium, PBB or PBDE in components
- qTOWER – compliant with the RoHS- Guideline
- Decrease CO₂ emission up to 95 %



▲ Based on 4 real-time PCR runs per day at 220 working days

Technical data

- Detection of fluorescence signals takes place during each cycle
- unique flexible: qTOWER can be customized, as a choice of the user out of 9 different color modules, including 4 FRET filters, it keeps the system open for individually adaption's or changes
- Optimum preparation for demanding multiplex-applications
- Opening of the lid is comfortable and motorized
- Automatic pressing of the High-pressure-Heater

Parameters: color modules

Name	Excitation	Emission
Color module 1	470 nm	520 nm
Color module 2	515 nm	545 nm
Color module 3	535 nm	580 nm
Color module 4	565 nm	605 nm
Color module 5	630 nm	670 nm
FRET 1	470 nm	580 nm
FRET 2	470 nm	670 nm
FRET 3	470 nm	705 nm
FRET 4	515 nm	670 nm

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