



# Eonis Q96

Quantitative real-time PCR in 96-well format

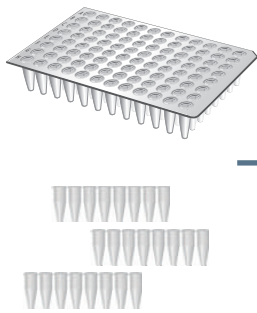


- Flexible loading of 96-well microplates or PCR strips
- Fast heating and cooling cycles and high temperature homogeneity over the entire heating block
- Exact fluorescence excitation without edge effects and high-speed detection
- Convenient analysis and interpretation of the generated data thanks to the bidirectional connection with the EURORealTime Analysis software
- Complete sample traceability throughout the entire MDx workflow in connection with the fully automated system Automated Workstation Pre-NAT II



The **Eonis Q96** is a compact thermal cycler for easy and efficient processing of quantitative real-time PCRs in the 96-well format. Its gold-plated silver heating block provides for ideal thermal conductivity, which ensures not only fast heating and cooling cycles but also maximum temperature accuracy and homogeneity. The four long-life LEDs of the fibre-optic system enable even excitation of the fluorescent dyes for optimum quantum yield. Thanks to the six different colour filter modules of the detector, different probes can be used in one multiplex PCR. The generated data can be evaluated using the device software or rapidly and conveniently using **EURORealTime Analysis**. Subsequently, the results can also be transmitted to a laboratory information system (LIS).

### Set-up of the real-time PCR



### Quantitative real-time-PCR



**Eonis Q96**

### Data analysis and generation of result reports



**EURORealTime Analysis**



## System

Loading.....	96-well PCR plates and PCR strips
Sample volume.....	10–100 µl
Speed .....	approx. 6 s / measurement with six dyes
Dynamic range .....	10 log levels
Measurement principle .....	fibre-optic shuttle system
Light source.....	4 high-performance LEDs (blue, green, white, red)
Detector.....	high-sensitivity photomultiplier tube (PMT)
Emission wavelength.....	524 ± 12 nm, 565 ± 12 nm, 586 ± 12 nm, 610 ± 12 nm, 680 ± 12 nm, 710 ± 12 nm
Heating block material .....	gold-plated silver
Heating capacity.....	min. 1 °C/s, max. 8 °C/s
Cooling capacity.....	max. 5.5 °C/s
Temperature range .....	heating block: 4–99 °C; heated lid: 30–110 °C
Temperature homogeneity .....	55 ± 0.15 °C, 72 ± 0.25 °C, 95 ± 0.5 °C (each after 15 s)
Accuracy of temperature setting.....	0.1 °C/s
Temperature increase / cycle.....	min. 0.1 °C, incl. gradient function
Reaction time increase / cycle.....	min. 0.1 s

## Technical details

Compatible operating system .....	Microsoft Windows 10 Enterprise 2019 LTSC (64 bit)
Connection .....	LAN, USB-A
Power supply .....	100 / 115 / 230 V ± 10%, 50 / 60 Hz, 950 W
Width x depth x height .....	310 mm x 345 mm x 613 mm
Weight.....	approx. 38 kg

## Order information

<b>Eonis Q96</b>	Thermal cycler for quantitative real-time PCR	YG 1092-0101*
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\* For research use only, not for in vitro diagnostic use