

# 16S Real-Time PCR Cycler

## Compact Real-Time PCR Machine for Maximum Flexibility



### Key features

- Fast and sensitive DNA analysis
  - ➔ Wide linear dynamic range
  - ➔ Provides relative & absolute quantitation results
- Built-in 7-inch touch screen, for fast and intuitive operation
  - ➔ Simple and quick set-up of customized protocols
- Utilizes high-quality Marlow Peltier cooler
  - ➔ High temperature uniformity and accurate heating control
- Compact design and low noise level

### Specifications

### 16S Real-Time PCR

Cat. No. 102011

Sample capacity	16 samples/run
Sample volume	25 – 120 µl
Supported tubes	0.2 ml PCR single tubes, 0.2 ml PCR 8-tube strip
Reaction temperature	4 – 99 °C
Temperature accuracy	≤ 0.2 °C
Temperature uniformity	≤ ±0.25 °C
Linear dynamic range	10 – 10 <sup>10</sup> copies (linearity R ≥ 0.99)
Light source	High-Brightness LED
Detection system	Partial Discharge
Excitation wavelength	1 <sup>st</sup> channel: 470 nm ± 10 nm (FAM) 2 <sup>nd</sup> channel: 525 nm ± 10 nm (HEX) 3 <sup>rd</sup> channel: 570 nm ± 10 nm (ROX)
Detection wavelength	1 <sup>st</sup> channel: 520 nm ± 10 nm (FAM) 2 <sup>nd</sup> channel: 570 nm ± 10 nm (HEX) 3 <sup>rd</sup> channel: 620 nm ± 10 nm (ROX)
Operating temperature	15 – 30 °C
Ambient operating humidity	≤ 85 %
Transport & storage temperature	-20 – 55 °C
Transport & storage relative humidity	≤ 85 %
Dimensions (W×D×H)	320 × 250 × 177 mm
Weight	4.5 kg
Power supply	220 V, 50 Hz, max. 240 W
Noise level	≤ 45 dbA