

Technical characteristics

Thermal block format	96 test tubes of 0.2 ml (12 x 8)
Test tube type	0.2-ml test tubes for PCR (individual, in strips, 8 pieces each or a holder 12 x 8)
Range of thermal block temperature control	0 C...100°C
Resolution of temperature setting	0.1°C
Absolute accuracy of temperature maintenance	±0.2°C
Uniformity of thermal block temperature	±0.15 °C
Average heating rate of the thermal block within temperature range of 4...99 °C	3.3 °C /s
Maximum heating rate of the thermal block within temperature range of 4...99 °C	3.5 °C/s
Average cooling rate of the thermal block within temperature range of 99...55 °C	2.1 °C /s
Maximum cooling rate of the thermal block within temperature range of 99...55 °C	2.5 °C /s
"Hot cover" temperature	105°C ±1°C
Actuating device of the thermal block	Peltier elements
Excitation source	Light-emitting diode (LED)
Detector	CCD (charge coupled device) -matrix
Number of the fluorescence measurement channels	4 or 5*
Excitation/detection wave length	470/525, 532/570, 585/633, 633/670, 690/750 **
Threshold sensitivity of each of the channels for solutions of standard fluorophores	0.05x10E-12M
Computer interface	USB 2.0 High-speed
Power consumption	Not over 550 W
Overall dimensions, WxDxH	210x540x540 mm
Preparation time after switching-on	Not over 5 minutes
Weight	27 kg

* The 5th channel is optional and available only after customer's specific request.

** The excitation/detection 690/750 wavelengths are for the 5th optional channel