

# C1000 Touch Thermal Cycler

## Specifications

### Amplification

Bulletin 6095

The C1000 Touch Thermal Cycler provides superb thermal performance for fast, reliable results. This fully modular platform supports interchangeable reaction modules, including two optical modules for real-time PCR, that swap in seconds without requiring tools. Equipped with a large state-of-the-art touch screen, the C1000 Touch Cycler offers a choice of programming methods, including graphical and automatic (using the protocol autowriter).

- Interchangeable reaction modules, including 5-color CFX96 optical, 4-color CFX384 optical, gradient-enabled dual 48/48-well fast, gradient-enabled 96-well fast, gradient-enabled 96–deep well, and gradient-enabled 384-well reaction modules
- USB ports that support peripherals, such as storage device and mouse
- Optional PC control and networking capability for up to 32 systems enable the ultimate in high throughput



### Specifications

Thermal Cycler				
Input power	Up to 850 W, maximum	Programming options	Step-based graphical and automatic	
Frequency	50–60 Hz, single phase	Security features	Optional log-in required mode for regulated environments	
Display	8.5 in. LCD display and touch screen	Reporting	Exportable run logs, system error logs	
Ports	5 USB A, 1 USB B	Onboard software	Windows CE 6.0	
Fuses	Two 10 A, 250 V, 5 x 20 mm	PC compatibility	Windows XP or higher	
Memory	>1,000 typical programs onboard; unlimited with USB flash drive	USB peripheral compatibility	Mouse, USB flash drive, barcode reader	
Dimensions (W x D x H)	33 x 46 x 20 cm (13 x 18 x 8 in.)	Real-time PCR upgrade	6-channel, 5-color CFX96 or 5-channel, 4-color CFX384 optical reaction module	
Weight	10 kg (23 lb)	Instant incubation	Yes	
Temperature control modes	Calculated and block			
PCR license	Yes			
Reaction Modules				
	96-Well Fast	96-Deep Well	Dual 48/48 Fast	384-Well
Sample capacity	96 x 0.2 ml tubes or 1 x 96-well plate	96 x 0.2 ml tubes, 48 x 0.5 ml tubes, or 1 x 96-well plate	2 x 48 x 0.2 ml tubes or 2 x 48-well plates	1 x 384-well plate
Maximum ramp rate	5°C/sec	2.5°C/sec	4°C/sec	2.5°C/sec
Average ramp rate	3.3°C/sec	2°C/sec	3°C/sec	2°C/sec
Temperature range	0–100°C	0–100°C	0–100°C	0–100°C
Temperature accuracy	±0.2°C of programmed target at 90°C	±0.2°C of programmed target at 90°C	±0.2°C of programmed target at 90°C	±0.2°C of programmed target at 90°C
Temperature uniformity	±0.4°C well-to-well within 10 sec of arrival at 90°C	±0.4°C well-to-well within 10 sec of arrival at 90°C	±0.4°C well-to-well within 10 sec of arrival at 90°C	±0.4°C well-to-well within 10 sec of arrival at 90°C
Gradient capability	Yes	Yes	Yes	Yes
Gradient				
Gradient range	30–100°C			
Temperature differential range	1–24°C			