



# TurboQ

## Real-Time PCR System Ideal for Multiplex and Routine PCR Applications



### 4 Optical Channels

Detects up to 4 targets in one well



### +/- 0.25°C Block Temperature Control Accuracy

Ensures experiment condition stability and eliminates uncertainty



### CCD-Based Detection System

The entire plate can be detected at once to eliminate reaction-time differences



### Software with Complete Analysis Functions

Functions included:

- Absolute Quantitation
- Relative Quantitation
- Allelic Discrimination
- Melting Curve

No need to purchase extra analysis modules



### Motorized Plate Carrier Tray

Plate in/out with a simple click, enables automation integration in the future

# Specifications

## Sample Block

Sample Block	Fixed 96-well, compatible with regular profile 0.2 ml PCR tube, strip, non-skirted and semi-skirted 96-well plate
Sample Volumes	10 - 100 $\mu$ l
Plate Loading	Motorized plate carrier tray

## Block Temperature

Block Temperature Range	25 - 99 $^{\circ}$ C
Peak Block Ramp Rate	2.5 $^{\circ}$ C/sec
Temperature Accuracy	$\pm$ 0.25 $^{\circ}$ C (35 $^{\circ}$ C – 95 $^{\circ}$ C) of set point / display temperature Measured at 3 minutes after clock start
Temperature Uniformity Across Block	$\pm$ 0.5 $^{\circ}$ C (30 seconds after clock start)

## Gradient Temperature

Gradient Operative Temperature Range	60 - 99 $^{\circ}$ C
Gradient Temperature Difference	Max. span 25 $^{\circ}$ C

## Heated Lid

Heating Lid	105 $^{\circ}$ C
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## Optics

Excitation Source	Tungsten-halogen lamp
Detection Module	CCD camera
Detection Channel	4 channels Ch1: FAM, SYBR Green Ch2: HEX, VIC, TET Ch3: ROX, Texas Red Ch4: Cy5

## Environment

Operating Temperature	15 - 30 $^{\circ}$ C
Operating Humidity	RH: 85% or less
Storage Temperature	-10 - 60 $^{\circ}$ C

## General

PC Operation System	Windows 7 or higher
Footprint Dimensions(H x W x D)	567 mm x 354 mm x 455mm
Weight	35 kg
Power supply	110/230 V, frequency 50/60 Hz, 1500W
Fuse	1 x fuse, 10A for 110VAC power / 5A for 220VAC power

Specifications are subject to change without prior notice.

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