



TurboQ

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



4 Optical Channels

Detects up to 4 targets in one well



CCD-Based Detection System

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



Motorized Plate Carrier Tray

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



+/- 0.25°C Block Temperature Control Accuracy

Ensures experiment condition stability and eliminates uncertainty



Software with Complete Analysis Functions

Functions included:

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

No need to purchase extra analysis modules

Specifications

Sample Block

Sample Block	Fixed 96-well, compatible with regular profile or low profile 0.1 / 0.2 ml PCR tube, strip, non-skirted, semi-skirted and full-skirted 96-well plate
Sample Volumes	10 - 100 μ l
Plate Loading	Motorized plate carrier tray

Block Temperature

Block Temperature Range	25 - 99 °C
Peak Block Ramp Rate	6.6 °C/sec
Temperature Accuracy	\pm 0.25 °C (35 °C – 95 °C) of set point / display temperature Measured at 3 minutes after clock start
Temperature Uniformity Across Block	\pm 0.5 °C (30 seconds after clock start)

Gradient Temperature

Gradient Operative Temperature Range	60 - 99 °C
Gradient Temperature Difference	Max. span 25 °C

Heated Lid

Heating Lid	105°C
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Optics

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

Environment

Operating Temperature	15 - 30 °C
Operating Humidity	RH: 85% or less
Storage Temperature	-10 - 60 °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.

Ordering Information

TCRT-9614	Real-Time PCR TurboQ 110V Ch1,2,4,5
TCRT-9624	Real-Time PCR TurboQ 220V Ch1,2,4,5
TCRT-C001	TurboQ 4ch Calibration Kit

Authorized Distributor

