



TORONTECH

REAL-TIME PCR SYSTEM (QPCR) - QUANTITATIVE THERMAL CYCLER TT- Q9605



Real-Time PCR System (qPCR) – Quantitative Thermal Cycler TT-Q9605 features a 96-well platform and a 5-channel configuration. Its advanced optical fiber detection system is uniquely designed to enable faster imaging and significantly reduce overall cycling time.

APPLICATIONS

This versatile thermal cycler is ideal for a wide range of applications, including nucleic acid target detection and quantification, gene expression analysis, genotyping, agri-food safety testing, and veterinary diagnostics.

FEATURES

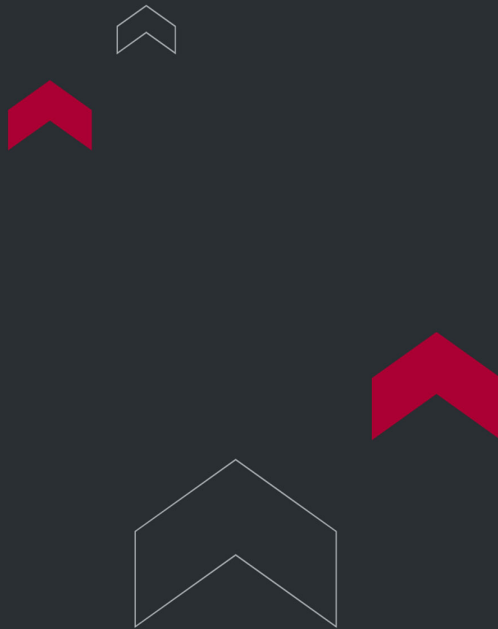
1. **High Throughput:** Efficient processing of large sample volumes.
2. **Enhanced Sensitivity:** Reliable detection of even low-abundance targets.
3. **Rapid Results:** Shorter cycling times for quicker data generation.
4. **Advanced Optical System:** Accurate and precise fluorescence detection.
5. **Multiple Fluorescent Channels:** Supports diverse assay requirements.
6. **Precise Temperature Control:** Ensures reliable and reproducible results.
7. **Cost-Effective Solution:** Combines performance with affordability.
8. **User-Friendly Software:** Simplifies operation and data management.
9. **Flexible Data Analysis Modes:** Tailored to various research needs.
10. **Versatile Applications:** Suitable for clinical, research, and industrial uses.
11. **Research Collaboration Opportunities:** Supports innovative projects.
12. **Dedicated Support Team:** Expert assistance for seamless operation.

This powerful yet economical system is designed to meet the needs of researchers and professionals across multiple industries, making advanced molecular testing more accessible.

TECHNICAL SPECIFICATIONS

Model	TT-Q9605
Product Description	96-well Real-Time PCR instrument with 5 dye channel filters
Sample Capacity	96-well, 0.2mL block
Compatible Plates/Tubes	96-well plates, 8-well strip tubes, single tube
Reaction Volume	20–120 µL
Excitation Source	Halogen lamp
Excitation Range	475–670 nm
Detection Method	CMOS camera
Detection Range	515–680 nm
Detection Channels	5
Temperature Range	4–100°C
Average Heating/Cooling Rate	3.0°C/sec / 3.0°C/sec
Maximum Heating/Cooling Rate	4.5°C/sec / 4.0°C/sec
Temperature Uniformity	±0.25°C
Temperature Accuracy	±0.15°C
Gradient	6 Independent temperature zones
Detection Sensitivity	1 copy
Sensitivity	Detect differences as small as 1.5-fold in target quantities in singleplex reactions
Dynamic Range	10 logs of linear dynamic range

Footprint (W x D x H)	60.0 x 39.0 x 32.0 cm
Weight	23 kg



Torontech Inc.

251 Consumers Road, Suite 1200
Toronto, Ontario, M2J 4R3, Canada 

Phone: +1 416 368 2721 | Fax: +1 416 981 7652
Email: info@torontech.com

Torontech, LLC

601 Brickell Key Drive, Suite 700
Miami, FL 33131, USA 

Toll-Free: 1-866-383-7919
Email: sales@torontech.com

Torontech ME FZE

Meydan Grandstand, 6th Floor,
Meydan Road, Nad Al Sheba,
Dubai-261440, UAE 

Phone: +971 488 19252
Email: me@torontech.com

