Veriti™ Thermal Cyclers and GeneAmp® PCR System 9700

Your Choice for High-Throughput PCR

GeneAmp® PCR System 9700 and Veriti™ Thermal Cycler

Introduction

Applied Biosystems, the most trusted name in PCR instrumentation, provides you with an array of flexible, high-throughput thermal cycling solutions to suit your lab's needs.

The innovative Veriti™ Thermal Cycler line delivers proven reliability combined with enhanced features to meet your current and future PCR needs. Packed with the power of networking capabilities, USB compatibility and optional VeritiLink™ Remote Management Software, you can control and manage multiple Veriti Thermal Cyclers and choose to increase your throughput over time. Front and back venting allows side-by-side placement of Veriti systems to provide you with a compact footprint for PCR. This, combined with an intuitive color touchscreen interface and easy setup, makes the Veriti™ Thermal Cycler the most flexible, reliable, and powerful solution for growing labs.

Alternatively, the GeneAmp® PCR System 9700 offers you the flexibility of removable sample block modules. With interchangeable blocks you can easily change from a standard 96-well block module to a Dual 96-Well or Dual 384-Well module using a single PCR System 9700 base module. These systems are equipped with an intuitive graphical user interface. For high-capacity thermal cycling, the dual-block systems are dependable options for your lab.

Network Multiple Veriti™ Systems

Veriti™ system networking has been designed to provide you with a more flexible alternative to other four-block thermal cyclers. Included with all Veriti Thermal Cyclers, this technology allows you to connect up to 12 Veriti Thermal Cyclers in a satellite format using standard Ethernet cables and a router. Once connected, you can start multiple thermal cyclers from any single Veriti Thermal Cycler.

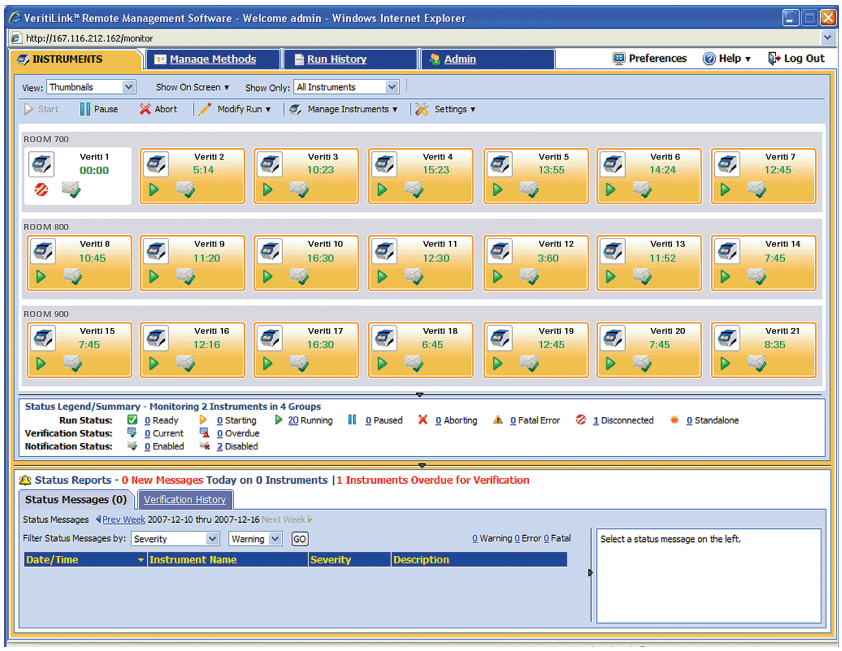

Figure 1. VeritiLink™ Remote Management Software

VeritiLink™ Remote Management Software

For even more control, the optional VeritiLink Remote Management Software enables you to remotely monitor networked thermal cyclers and create or transfer protocols from any computer via web browsing tools such as Internet Explorer or Firefox (Figure 1). Both easy to set up and use, this software provides you with a sense of comfort with features like real-time email updates and email text messaging.

384-Well Options

For maximum throughput, Applied Biosystems offers a number of options for high capacity, 384-well thermal cycling:

The **Veriti™ 384-Well Thermal Cycler** is designed to deliver reliable, high throughput, low volume PCR success. With a powerful, intuitive color touch screen interface, USB and networking capabilities, the Veriti 384-well Thermal Cycler is designed for convenient, high-throughput PCR. With Veriti system networking you can connect up to twelve 384-well systems to yield 4,608 samples per run started from a single system. Furthermore, with the optional VeritiLink Remote Management Software you can connect more than 50 systems which can be accessed remotely from an internet browser to produce the level of throughput that you need.

The **Dual 384-Well GeneAmp® PCR System 9700** contains two sample blocks, each of which includes a 384-well, 0.02 mL format. Fully loaded, the system accommodates 768 samples per run.

The **Auto-Lid Dual 384-Well GeneAmp® PCR System 9700** is a robot-compatible module designed for high-throughput cycle sequencing and PCR applications. This thermal cycler features a unique plate ejection system that following cycling and opening of the heated lid, allows a robot arm to easily access and remove each 384-well plate from the sample block.

96-Well Options

For labs requiring greater capacity with standard 0.2 mL and Fast 0.1 mL 96-well formats, Applied Biosystems offers several configurations for success.

The Veriti 96-Well Thermal Cycler provides you with a range of innovative features designed to give you control over your PCR.

- VeriFlex™ Blocks: 6 independent temperature blocks provide you with precise control over your PCR optimization
- Flexible setups: helps shorten your PCR cycling time with the options to run fast or standard PCR chemistry protocols
- Innovative, intuitive touch screen interface simplifies setup and use
- Convenient protocol transfer with USB capability
- Available in 0.2 or Fast 0.1 mL formats

Veriti system networking allows you to connect up to 12 systems to yield 1,152 samples per run started through a single system. Furthermore, the optional VeritiLink Remote Management Software enables remote access and control of more than 50 systems to help you yield the level of throughput you need.

The Dual 96-Well GeneAmp® PCR System 9700 contains two sample blocks, each of which includes a 96-well, 0.2 mL format. Fully loaded, the system accommodates 192 samples per run. This module can also be used with a single 96-well plate for smaller runs.

Reagents and Plastics

A complete line of reagents and plastics is available for use with all Applied Biosystems Thermal Cyclers.

Worldwide Service and Support

All Applied Biosystems products are supported by our world-class service organization. Our Repair Center provides a cost-efficient way to service our instruments to help you maximize uptime and achieve optimal performance. For organizations that own more than 15 thermal cyclers, Applied Biosystems offers on-site technical service to fix or replace instruments. Additional details and terms of this on-site technical service are available from Applied Biosystems.

TABLE 1. APPLIED BIOSYSTEMS THERMAL CYCLERS

	Veriti™ 96-Well Thermal Cycler	Veriti™ 384-Well Thermal Cycler	Dual 96-Well GeneAmp® PCR System 9700	Dual 384-Well Dual GeneAmp® PCR System 9700	Auto-Lid Dual 384-Well GeneAmp® PCR System 9700
Block Format	0.1 mL or 0.2 mL Alloy VeriFlex™ Blocks	0.02 mL aluminum single block	2 aluminum 0.2 mL 96-well blocks	2 aluminum 0.02 mL 384-well blocks	2 aluminum 0.02 mL 384-well blocks
Features	Med/high throughput. VeriFlex Blocks provide "better than gradient" PCR optimization. Veriti™ system networking capability.	High throughput, small sample volume. Veriti system networking capability.	Med/high throughput	High throughput, small sample volume	High throughput, small sample volume with robotic capability
Network Software	Optional VeritiLink™ Remote Management Software	Veriti system networking capability	NA	NA	NA
Max Block Ramp Rate	0.1 mL: 5°C/sec 0.2 mL: 3.9 °C/sec	3.7°C/sec	2.0°C/sec	2.2°C/sec	2.2°C/sec
Max Sample Ramp Rate	0.1 mL: 4.25°C/sec 0.2 mL: 3.35°C/sec	3.1°C/sec	1.7 °C/sec	2.0°C/sec	2.0°C/sec
Enabled to run Fast chemistry?	Yes	No	No	No	No
VeriFlex Blocks	25° C (5° C zone-to-zone)	No	No	No	No
Temperature Accuracy	±0.25°C (35°C – 99.9°C)				
Temperature Uniformity	<0.5°C (20sec after reaching 95°C)	<0.5°C (10sec after reaching 95°C)	±0.5°C (30sec after reaching 95°C)		
Temperature Range	4.0°C to 99.9°C				
Dimensions	Height: 24.5 cm (9.6 in.) Width: 23.7 cm (9.3 in.) Depth: 48.5 cm (19.1 in.)		Height: 26 cm (10 in.) Width: 30 cm (12 in.) Depth: 52 cm (20.5 in.)		
Weight	10.6 kg (23.4 lb)	11.5 kg	8.6 kg (19 lb)		
PCR Volume Range	10-80 µL	5-20 µL	10-100 µL	5-20 µL	5-20 µL
Instrument Memory	800+ Methods		120+ Methods*		
Display Interface	Touchscreen		Buttons		
Warranty	Two Years				
Tm Calculator	Menu driven through touchscreen		Included		

* Number of methods stored is dependent on protocol length

ORDERING INFORMATION

Description		P/N
Veriti™ 96-Well Fast Thermal Cycler, 0.1 mL	1 instrument	4375305
Veriti™ 96-Well Thermal Cycler, 0.2 mL	1 instrument	4375786
Veriti™ 384-Well Thermal Cycler, 0.02 mL	1 instrument	4388444
Dual 96-Well GeneAmp® PCR System 9700, 0.2 mL	Base and Module	4343176
Auto-Lid Dual 384-Well GeneAmp® PCR System 9700, 0.02 mL	Base and Module	4314487
Auto-Lid Dual 384-Well GeneAmp® PCR System 9700, 0.02 mL	Module Only	4312904
Dual 384-Well GeneAmp® PCR System 9700, 0.02 mL	Base and Module	N8050002
Dual 384-Well GeneAmp® PCR System 9700, 0.02 mL	Module Only	N8050400

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