

Swift•MiniPro®

Thermal Cyclers

About PCR

Polymerase Chain Reaction (PCR) is an in vitro method of nucleic acid synthesis useful in detection and analysis of DNA and RNA in cell and molecular biology investigations. Through PCR, a small, unique segment of DNA can be specifically replicated, exponentially amplified and easily analyzed. Because PCR depends on repeated cycles of heating and cooling within a sample block, rapid temperature ramping, precise temperature control, block uniformity and flexible segment programming are essential performance attributes of a Thermal Cycler.

Swift MiniPro Thermal Cycler

Esco Swift MiniPro thermal cycler is a low cost personal thermal cycler with very compact footprints, designed to meet a variety of critical experimental requirements, such as Touch down PCR, Time release PCR and others. The Swift MiniPro thermal cycler use advanced Peltier temperature control technology to achieve and maintain performance precise control and fast ramp rates with minimal over- or under-shoot for process speed and accuracy.

Superior Performance

Excellent Temperature Uniformity

Unique temperature control technology guarantees extremely uniform temperature between central and edge wells. Block temp. uniformity is $<0.3^{\circ}\text{C}$.

High Temperature Precision

The best peltier components with precision control technology provide highest temperature accuracy. Block temp. accuracy is $<0.3^{\circ}\text{C}$.

Outstanding Ramp Rate

Fastest Aluminum block have incredible thermal conductivity properties that enable superb heating and cooling capability, which can only provided by gold block of other brands. High ramp rate of up to $5.0^{\circ}\text{C} / \text{sec}$.

Convenience

Compact Footprint

User-friendly ergonomic design, small footprint to conserve available bench top space. Light weight of 3.2 kg only.

Convenient Setup, Fast Run

Pre-programmed methods are available for your convenience or you can enter thermal cycling values to program your own methods.

Friendly Interface

Large screen shows all information on one page. Easy, graphical programming for temperature, holding time, ramp rate, pause and other functions ensures intuitive operation.

Adjustable Hot Lid

Prevents reagents from evaporating. Hot lid height is adjustable to suit all kinds of tubes.

Adjustable Ramp Rate

High ramp rate of up to $5.0^{\circ}\text{C} / \text{sec}$. Suits all reagents. Allows protocols to be transferred from other cyclers.

Stability

Robust Security

Automatic restart saves setpoints and guarantees successful PCR cycling in the event of power interruption.

Long Warranty Period, Peace of Mind

The peltier module, electronics and sensors are precision tuned and tested to ensure the longest operating lifespan possible. Backed by an industry leading 3 year warranty for main body, 2 year warranty for block

Certified Quality	ISO 9001:2000 Certificate	ISO 13485:2003
	ISO 14001:2004 Certificate	CE & EMC Certificate

ESCO

WORLD CLASS. WORLDWIDE.



Swift Series Thermal Cyclers, MiniPro

General Specifications, Swift MiniPro Thermal Cycler

Model Code	SWT-MIP-0.2-*	SWT-MIP-0.5-*
Sample Capacity	24 x 0.2 mL	18 x 0.5 mL
Applicable Consumables	0.2 mL tubes, 3 X 8 strips, 24-well microplates	0.5 mL tubes
Max. Heating Rate	5.0°C / sec	4.0°C / sec
Max. Cooling Rate	4.0°C / sec	3.0°C / sec
Temperature Uniformity	±0.3°C	
Temperature Accuracy	±0.3°C	
Temperature Range	4°C - 99°C	
Hot lid Temp. range	30°C - 110°C	
Temp. Control Mode	Block mode or tube mode	
Display	Graphical LCD	
Protocol Capacity	100 protocols	
PC Interface	RS232 for software updates	
Dimension (W x D x H)	212 x 297 x 200 mm (8.3" x 11.7" x 7.9")	
Weight	3.2 kg (7 lbs)	
Electrical	100-240VAC 50/60Hz 200W	
Warranty	3 years for main body, 2 years for blocks	

Order Information

Model	Description
SWT-MIP-0.2-1	Swift MiniPro Thermal Cycler With 24 x 0.2mL Block 110VAC
SWT-MIP-0.2-2	Swift MiniPro Thermal Cycler With 24 x 0.2mL Block 220VAC
SWT-MIP-0.5-1	Swift MiniPro Thermal Cycler With 18 x 0.5mL Block 110VAC
SWT-MIP-0.5-2	Swift MiniPro Thermal Cycler With 18 x 0.5mL Block 220VAC
SWT-MIP-BLC-1	Swift MiniPro Block 1 (24 x 0.2mL)
SWT-MIP-BLC-2	Swift MiniPro Block 2 (18 x 0.5mL)

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NSF / ANSI 49 Biological Safety Cabinets • Animal Containment Workstations • Fume Hoods • Clean Benches

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