

EPPENDORF

Mastercycler

The Eppendorf Mastercycler (often referred to as the classic Mastercycler, model 5333) is a foundational Peltier-based thermal cycler designed for standard Polymerase Chain Reaction (PCR) applications. It is renowned for its iconic universal block that accommodates 0.2 mL tubes, 0.5 mL tubes, or a 96-well PCR plate without requiring block changes. It features a heated lid, internal memory for up to 100 programs, and expansion via the Eppendorf Personal Card.

SPECIFICATIONS

General

Interfaces	RS-232 C, Centronics (printer)
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Physical

Power Supply	115 V or 230 V, 50/60 Hz; 500 W max
Dimensions (W×H×D)	260 × 270 × 410 mm
Weight	10 kg

Sample Block Specifications

Block Capacity	96 × 0.2 mL tubes, 77 × 0.5 mL tubes, or 1 × 96-well PCR plate
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Thermal Performance

Block Temperature Range	4 °C to 99 °C
Max Heating Rate	Up to 3 °C/s
Max Cooling Rate	Up to 2 °C/s

Software & Programming

Max Number of Programs	100 (internal memory)
Memory Expansion	Eppendorf Personal Card (Smart Card)

Power & Electrical

Max Power Consumption	500 W
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TECHNOLOGY

Peltier-based thermal cycling

APPLICATIONS

Polymerase Chain Reaction (PCR)

Generated by SpecAtlasHub (specatlashub.com). Specifications are compiled from available sources and are subject to change — verify critical values against the manufacturer before purchase.