

# VWR® XT<sup>96</sup> Thermal Cycler

- 01. INNOVATIVE BLOCK DESIGN
- 02. PRECISE TEMPERATURE CONTROL
- 03. INTUITIVE PROGRAMMING
- 04. QUICK SET-UP
- 05. DATA CONTROL



## VWR® XT<sup>96</sup> THERMAL CYCLER

The VWR® XT<sup>96</sup> Thermal Cycler combines industry-inspired innovation with the reliable quality of German manufacturing – housing both in a compact, low noise ventilation design that fits on virtually any bench top. For optimising PCR's, the XT<sup>96</sup> is also available with a gradient function.

The VWR® XT<sup>96</sup> Thermal Cycler offers a powerful, yet easy to use software interface, as well as a host of other innovative features.

- **Flexible lid:** Heated lid automatically adjusts to fit every PCR tube, creating pressure that prevents sample evaporation, to ensure reproducible results in every run
- **Innovative block design** with reduced mass allows highest temperature uniformity, and heating and cooling rates of up to max. 4 °C/s
- **Precise temperature control** for shortest run times, without over- and under-shoots, for best PCR results
- **Gradient function (optional):** Eight advanced control circuits and Peltier elements, providing an almost linear gradient – ideal for PCR optimization
- **Sharp, clear 7" TFT display**, combined with intuitive software, simplifies use and suits all user expectations

- **Intuitive programming:** PCR-Wizard for convenient three-step, two-step, and gradient PCR programming
- **Quick set-up:** Select one of the 'Recently used methods' to accelerate your PCR run
- **Data control:** Up to 2x USB, 1x Ethernet (MS Windows®, Linux), remote control and monitoring of instruments via PC software, MP3 signal tones, and primary/satellite control
- **System tools at the touch of a button:** Graphical or tabular programming, 'Global Program Ramp', 'Tube Control', online help, 'Quick Start' function and 'Power Fail Denaturation' for auto-restart after power failure

Manufactured in Germany according to ISO 9001, calibrated and maintained according to NIST standards, and backed by 30 years of cycler technology expertise and experience.

All XT thermal cyclers include simple to use PC software for remote control and monitoring of instruments, as well as for creating PCR protocols on a PC.

Model	XT <sup>96</sup>	XT <sup>96</sup> Gradient
Block format	96x0.2 ml tubes or 96-well PCR plates	
Block homogeneity (°C)	±0.35 °C (at 72 °C)	
Cooling	8 Peltier elements per block, with long-life technology, and 8 control circuits with PT1000 temperature sensors	
Gradient temperature range (°C)	-	+30...100 °C (±0.2 °C)
Heating and cooling rate (°C/sec)	Max. 4 °C/s	
Interfaces	2x USB, 1x Ethernet (MS Windows®, Linux), remote control and monitoring of instruments via PC software and master/slave control	
Lid	Automatic height adjustment	
Lid temperature range (°C)	+40...110 °C	
Max. gradient	-	30 °C (±15 °C)
No. of programs	500,000	
Software	Graphical or tabular programming; 'Global Program Ramp'; 'Tube Control'; online help; 'Quick Start' function and 'Power Fail Denaturation' for auto-restart after power failure; MP3 signal tones; master/slave control	
Temperature range	+4...105 °C	Primary/secondary control
Weight	8,9 kg (including block)	
WxDxH (mm)	220x330x190 mm	

Description	Unit	Cat. No.
Thermal Cycler, XT <sup>96</sup> , with 96-well block and standard lid, for 96x0.2 ml tubes or 96-well PCR plates	Each	76452-151
Gradient Thermal Cycler, XT <sup>96</sup> Gradient, with 96-well gradient block and standard lid, for 96x0.2 ml tubes or 96-well PCR plates	Each	76452-153
Gradient Thermal Cycler, XTender <sup>96</sup> Gradient - without touch screen, with 96-well gradient block and standard lid, for 96x0.2 ml tubes or 96-well PCR plates - controlled by PC/Tablet or from another XT <sup>96</sup> Thermal Cycler	Each	76452-157
Thermal Cycler, XTender <sup>96</sup> - without touch screen, with 96-well block and standard lid, for 96x0.2 ml tubes or 96-well PCR plates - controlled by PC/Tablet or from another XT <sup>96</sup> Thermal Cycler	Each	76452-155



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