

PCR

S Y S T E M

**LPRS-A1
SERIES**



PCR System LPRS-A1 Series

PCR System LPRS-A10 consist of long service life peltier heating unit with back and front air channel for side by side placement of machine. Designed with stepless adjustable hot lid with pressure-protection to fit tubes of different heights. With nonlinear gradient type, it offers 30 to 105 °C gradient temperature range with 0.5°C/ s maximum ramping rate. Features high heating and cooling rate, one-click quick incubation function to meet critical needs of the nucleic acid experiments.

PCR System LPRS-A11 consist of long service life peltier heating unit with back and front air channel for side by side placement of machine. Designed with stepless adjustable hot lid with pressure-protection to fit tubes of different heights. With dynamic gradient type, it offers 30 to 105 °C gradient temperature range with 0.6°C/ s maximum ramping rate. Features high heating and cooling rate, one-click quick incubation function to meet critical needs of the nucleic acid experiments.

PCR System LPRS-A12 consist of long service life peltier heating unit with back and front air channel for side by side placement of machine. Designed with stepless adjustable hot lid with pressure-protection to fit tubes of different heights. With two-dimensional gradient type, it offers 30 to 105 °C gradient temperature range with 0.7°C/ s maximum ramping rate. Features high heating and cooling rate, one-click quick incubation function to meet critical needs of the nucleic acid experiments.

Features:

- Reinforced aluminum module with anodizing technology
- 0.5°C/s (LPRS-A10), 0.6°C/ s (LPRS-A11), 7°C/ s (LPRS-A12) ramping rate to save total test time, speed up the process
- Stepless adjustable hot lid with pressure-protection
- Built-in 11 standard program file template, quick editing of the required files
- Setting for 09 shortcut keys in interface as per needs
- Real time display of running program and that of left time
- Editing of the running file is possible
- Update software by USB and LAN
- Email notification after experiment is over
- Built-in Wi-Fi module, to control multiple PCR tubes through PC or Phone internet connection
- Automatic restart function after power failure, saves the data

Application:

This advance scale PCR system finds application in the field such as molecular biology, genetic engineering for research and analysis of nucleic acids, genes etc.

Specifications:

Model no.	LPRS-A10	LPRS-A11	LPRS-A12
Chamber Volume	96 × 0.2 ml	6 × 16 × 0.2 ml	96 × 0.2 ml
Tube	0.2 ml tube, 8 strips, 96 wells plate		
Max. Ramp Rate	0.5°C/s	0.6°C/s	0.7°C/s
Ramping rate adjustable	0.1 to 5°C	0.1 to 6°C	0.1 to 7°C
Gradient temp. range	30 to 105°C		
Gradient type	Nonlinear gradient	Dynamic gradient	Two-dimensional gradient
Gradient spread	1 to 42°C	Adjacent zones differences between 0.1 to 5 °C, a total of six zones	Horizontal: 1 to 30°C longitudinal: 1 to 24 °C
Hot lid temperature	30 to 115°C		
Temperature control	Block\Tube		
Temperature range	4 to 105°C		
Uniformity	≤ ± 0.2°C		
Accuracy	≤ ± 0.2°C		
Display resolution	0.1°C		
Hold at 4°C	Continuous		
Number of programs	20000 + (USB FLASH)		
Max. No. of step	30		
Max. No. of cycle	100		
Time increment/decrement	1 to 600 Seconds		
Temp. increment/decrement	0.1 to 10.0°C		
Display	LCD 10.1 inch, 1024 × 600 pixels		
Communication	USB 2.0, Wi-Fi		
Dimension (L×W×H)	385 × 270 × 255 mm		
Weight	10 kg		11 kg
power	600 W		1000 W
Power supply (voltage)	AC 100 to 240 V, 50/60 Hz		
Machine Features	Pause function, Auto data protection, Touchdown, Long PCR, Mobile phone app, Computer software		