



# Pulsed Field Gel Electrophoresis System



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**Darsun**Scientific

# Darsun Scientific Pulsed Field Gel Electrophoresis System

## DS-Pulse



Voltage gradient: Max. 9.5V / cm, increment 0.1v/cm. Max. current: 0.5A.  
 Max power: 300W. Pulse angle:  $\pm 120^\circ$   
 Pulse width: 1~9999s programmed pulse or 1~20s line-increase pulse. Module timer: 1min~99hours 59min.  
 Temperature range: 10°C~30 °C, Tolerance:  $< \pm 0.5^\circ\text{C}$   
 Temperature detection: Detect the temperature of buffer solution directly. Tolerance: $< \pm 0.1^\circ\text{C}$ .  
 Cycling module: Built-in buffer cycling system.  
 Control function: Dual core microprocessor intelligent control: Editable program and automatic connection function;  
 Open cover power-off protection; Overload and no-load protection; Automatic memory function; Automatic shutdown function

### Product Overview

Pulsed field electrophoresis is performed by alternately changing the electric field between pairs of different spatial azimuth electrodes, changing the directions of DNA molecules of the millions of bases and passing the agarose gel pores at different migration rates to separate the DNA.

Pulsed field electrophoresis system is mainly used for the separation and analysis of genomic DNA, which can detect and

isolate 100bp-6Mb size DNA molecules, mainly used in the separation of chromosomal DNA; large fragment genome library construction, identification and analysis; transgenic research; pathogenic microorganisms identification, traceability;

DNA radiation damage and repair; cell apoptosis and other field s.

The DS-Pulse System model pulsed-field electrophoresis system is the latest upgrade product on base of DS-600MCS-3, which has been well-known for its original reputation. The performance of the DS-Pulse System is as follows:

Model	DS-Plus
Gel size (WxL)	120x120 (mm)
No. of samples	9~13
Total buffer volume	~3000 (ml)
Dimension (Lx Wx H)	Power supply: 400x 400x170 (mm)
	Pulsed Electrophoresis tank: 395x440x140 (mm)
	Constant temperature circulator: 196x406x482 (mm)
Weight	70.0 (kg)

Parts name	Quantity
Power supply	1
Pulsed Electrophoresis tank	1
Constant temperature circulator	1
Gel casting	1
120x 120mm Gel tray	1
Gel pad	1
2.0mm thickness 9-well comb	2
2.0mm thickness 13-well comb	2
Sample module	2
Sample exporter	2
Level	1
Clip	2
Circular tube	3
level adjusting button	4
Control line	2
Electrical Cables	1
Power cord	1

