

CATALOGUE

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Universal Power Supplies

JY-E series Universal Power Supplies

JY-E series universal power supply comprise 5 models, including: JY200E, JY300E, JY300HE, JY600E, JY600HE, the maximum output voltage from 200V until 600V, the most widely covered electrophoresis experiment, it can provides maximum convenience for experimenter to choose the power supply according to the different uses.

JY-E series universal power supply is based on the JY-C series universal power supply on the optimization of control program, expansion the product function, which simplifies the operation, and greatly improve the performance of the electrophoresis power supply.



Type of Output: Constant-Voltage, Current or Power

Increment: 1V, 1mA, 1W

Timer Range: 1min~99hr, 59min

V-hr Range: 1~99999V-hr/ Increment 1V-hr

Display: LCD display with backlight

Output jacks: Four sets of output jacks

- Molding shell, touch keys, dual core microprocessor intelligent control;
- 0-9 digital button, make the operation more simple and convenient;
- Indicate the preset value and the actual output value at the same time;
- It can store 100 electrophoresis methods;
- With automatic memory function;
- With step-by-step control function (editable 10 groups, each group of up to make 10 program automatic connection operation);
- With a pause control function (including real-time tuning)
- With standard, timing, V-hr, step-by-step operation function;
- With constant voltage, constant current, constant power, misoperation, fault intelligent prompt functions;
- Automatic detection of no-load, over-load, short circuit, rapid resistance change, ground leak and system overheating.

Technical specifications for JY-E series Universal Power Supplies

	JY200E	JY300E	JY300HE	JY600E	JY600HE
Voltage range	5~200 V	5~300 V	5~300 V	10~600 V	10~600 V
Current range	1~2000 mA	1~400 mA	1~1500 mA	1~500mA	1~1000 mA
Power range	1~200 W	1~120 W	1~450 W	1~300 W	1~300 W
Type of control	Constant V, Constant I and Constant P				
Display type	LCD screen with backlight				
Output jack	Four sets				
Storage function	Store 100 methods				
Programming method	Can store 10 methods, each up to 10 steps	Can store 10 methods, each up to 10 steps	Can store 10 methods, each up to 10 steps	Can store 10 methods, each up to 10 steps	Can store 10 methods, each up to 10 steps
Timing function	1min-99h59min	1min-99h59min	1min-99h59min	1min-99h59min	1min-99h59min
V-hr function	Yes, 1~99999 V-hr				
Pause control function	Yes	Yes	Yes	Yes	Yes
Power recovery function	optional	optional	optional	optional	optional
Automatic memory function	Yes	Yes	Yes	Yes	Yes
Automatic shutdown function	Yes	Yes	Yes	Yes	Yes
Intelligent prompt functions	Yes	Yes	Yes	Yes	Yes
The non-proliferation field function	optional	optional	optional	optional	optional
Safety performance	Yes	Yes	Yes	Yes	Yes
Volume (L×W×H)	280×237×118 (mm)	280×237×118 (mm)	280×237×118 (mm)	280×237×118 (mm)	263×275×125 (mm)
Weight	3.2 kg	3.2 kg	3.2 kg	3.2 kg	4.4 kg

The details show of the products



Stackable chassis design

Antiskid foot

Embedded power interface

Low noise, strong radiation wind machine

JY-C series Universal Power Supplies

JY-C series universal power supply comprise 5 models, including: JY200C, JY300C, JY300HC, JY600C, JY600HC, the maximum output voltage from 200V until 600V, the most widely covered electrophoresis experiment, it can provides maximum convenience for experimenter to choose the power supply according to the different uses.



Type of Output: Constant-Voltage, Current or Power

Increment: 1V, 1mA, 1W

Timer Range: 1min~99hr, 59min

Display: LCD display with backlight

Output jacks: Four sets of output jacks

- Molding shell, touch keys, dual core microprocessor intelligent control;
- Indicate the preset value and the actual output value at the same time;
- It can store 10 electrophoresis methods;
- With automatic memory function;
- With standard, timing operation function;
- With constant voltage, constant current, constant power, misoperation, fault intelligent prompt functions;
- Automatic detection of no-load, over-load, short circuit, rapid resistance change, ground leak and system overheating.

Technical specifications for JY-C series Universal Power Supplies

	JY200C	JY300C	JY300HC	JY600C	JY600HC
Voltage range	5~200 V	3~300 V	5~300 V	10~600 V	10~600 V
Current range	1~2000 mA	1~400 mA	1~1500 mA	1~500 mA	1~1000 mA
Power range	1~200 W	1~120 W	1~450 W	1~300 W	1~300 W
Type of control	Constant V, Constant I and Constant P				
Display type	LCD screen with backlight				
Output jack	Four sets				
Storage function	Store 10 methods				
Timing function	1min-99h59min	1min-99h59min	1min-99h59min	1min-99h59min	1min-99h59min
Power recovery function	optional	optional	optional	optional	optional
Automatic memory function	Yes	Yes	Yes	Yes	Yes
Automatic shutdown function	Yes	Yes	Yes	Yes	Yes
Intelligent prompt functions	Yes	Yes	Yes	Yes	Yes
The non-proliferation field function	optional	optional	optional	optional	optional
Safety performance	Yes	Yes	Yes	Yes	Yes
Volume (L×W×H)	280×237×118 (mm)	280×237×118 (mm)	280×237×118 (mm)	280×237×118 (mm)	263×275×125 (mm)
Weight	3.2 kg	3.2 kg	3.2 kg	3.2 kg	4.4 kg

High-Voltage Power Supply

JY- series High-Voltage power supply comprise including 2 series products, including: JY-E series, JY-C series, the maximum output voltage from 1000V until 5000V, is suitable for sequencing electrophoresis, isoelectric focusing electrophoresis and 2-D electrophoresis, at the same time it can also meet the other conventional electrophoresis experiment.

JY-E series High-Voltage Power Supplies

JY-E series High-Voltage power supply comprise 4 models, including: JY1000E, JY1600E, JY3000E, JY5000E, the maximum output voltage from 1000V until 5000V, the most widely covered electrophoresis experiment, it can provides maximum convenience for experimenter to choose the power supply according to the different uses.

JY-E series High-Voltage power supply is based on the JY-C series High-Voltage power supply on the optimization of control program, expansion the product function, which simplifies the operation, and greatly improve the performance of the electrophoresis power supply.



Type of Output: Constant-Voltage, Current or Power

Increment: 1V, 1mA, 1W

Timer Range: 1min~99hr, 59min

V-hr Range: 1~99999V-hr/ Increment 1V-hr

Display: LCD display with backlight

Output jacks: Four sets of output jacks

- Touch keys, dual core microprocessor intelligent control;
- 0-9 digital button, make the operation more simple and convenient;
- Indicate the preset value and the actual output value at the same time;
- It can store 100 electrophoresis methods;
- With automatic memory function;
- With step-by-step control function (editable 10 groups, each group of up to make 10 program automatic connection operation);
- With a pause control function (including real-time tuning)
- With standard, timing, V-hr, step-by-step operation function;
- With constant voltage, constant current, constant power, misoperation, fault intelligent prompt functions;
- Automatic detection of no-load, over-load, short circuit, rapid resistance change, ground leak and system overheating.

Technical specifications for JY-E series High-Voltage Power Supplies

	JY1000E	JY1600E	JY3000E	JY5000E
Voltage range	30~1000 V	20~1600 V	20~3000 V	20~5000 V
Current range	1~500 mA	1~100 mA	1~400 mA	1~200mA
Power range	1~300 W	1~160 W	1~400 W	1~100 W
Type of control	Constant V, Constant I and Constant P			
Display type	LCD screen with backlight			
Output jack	Four sets	Four sets	Four sets	Two sets
Storage function	Store 100 methods	Store 100 methods	Store 100 methods	Store 100 methods
Programming method	Can store 10 methods, each up to 10 steps	Can store 10 methods, each up to 10 steps	Can store 10 methods, each up to 10 steps	Can store 10 methods, each up to 10 steps
Timing function	1min-99h59min	1min-99h59min	1min-99h59min	1min-99h59min
V-hr function	Yes, 1~99999 V-hr	Yes, 1~99999 V-hr	Yes, 1~99999 V-hr	Yes, 1~99999 V-hr
Pause control function	Yes	Yes	Yes	Yes
Power recovery function	optional	optional	optional	optional
Automatic memory function	Yes	Yes	Yes	Yes
Automatic shutdown function	Yes	Yes	Yes	Yes
Intelligent prompt functions	Yes	Yes	Yes	Yes
The non-proliferation field function	optional	optional	optional	optional
Safety performance	Yes	Yes	Yes	Yes
Volume (LxWxH)	263x275x125 (mm)	263x275x125 (mm)	263x275x125 (mm)	368x255x133 (mm)
Weight	4.6 kg	4.4 kg	4.8 kg	10.6 kg

Expansion box for Electrophoresis power supply



- The 1 output jack can be extended to 3 output jacks;
- Can be compatible with all kinds of electrophoresis power supply.

Temperature sensor



- Can be used to detect the temperature in the experimental process of electrophoresis.
- Can be compatible with the models: JY5000E, JY3000+, JY-ECPT3000 power supply.

JY-C series High-Voltage Power Supplies

JY-C series High-Voltage power supply comprise 4 models, including: JY1000C, JY1600C, JY-ECP3000, JY-ECPT3000, the maximum output voltage from 1000V until 3000V, the most widely covered electrophoresis experiment, it can provides maximum convenience for experimenter to choose the power supply according to the different uses.



Type of Output: Constant-Voltage, Current or Power
 Increment: 1V, 1mA, 1W
 Timer Range: 1min~99hr, 59min
 Display: LCD display with backlight
 Output jacks: Four sets of output jacks

- Touch keys, dual core microprocessor intelligent control;
- Indicate the preset value and the actual output value at the same time;
- It can store 10 electrophoresis methods;
- With automatic memory function;
- With standard, timing operation function;
- With constant voltage, constant current, constant power, misoperation, fault intelligent prompt functions;
- Automatic detection of no-load, over-load, short circuit, rapid resistance change, ground leak and system overheating.

Technical specifications for JY-C series High-Voltage Power Supplies

	JY1000C	JY1600C	JY-ECP3000	JY-ECPT3000
Voltage range	30~1000 V	20~1600 V	20~3000 V	20~3000 V
Current range	1~500 mA	1~100 mA	1~200 mA	1~200 mA
Power range	1~300 W	1~160 W	1~200 W	1~200 W
Type of control	Constant V, Constant I and Constant P			
Display type	LCD screen with backlight			
Output jack	Four sets	Four sets	Four sets	Four sets
Storage function	Store 10 methods	Store 10 methods	Store 10 methods	Store 10 methods
Timing function	1min-99h59min	1min-99h59min	1min-99h59min	1min-99h59min
Power recovery function	optional	optional	optional	optional
Automatic memory function	Yes	Yes	Yes	Yes
Automatic shutdown function	Yes	Yes	Yes	Yes
Intelligent prompt functions	Yes	Yes	Yes	Yes
Temperature control function	No	No	No	Through the temperature sensor RT+10°C~65°C
The non-proliferation field function	optional	optional	optional	optional
Safety performance	Yes	Yes	Yes	Yes
Volume (L×W×H)	263×275×125 (mm)	263×275×125 (mm)	300×265×125 (mm)	300×265×125 (mm)
Weight	4.6 kg	4.6 kg	7.0 kg	7.0 kg

Basic Power Supplies

JY series Basic power supply comprise 2 models, including: JY300, JY600, can meet the conventional horizontal electrophoresis, small and medium-sized vertical electrophoresis, membrane acetate electrophoresis experiment requirement, because of its lightweight and compact, simple and practical characteristics, recommended for basic teaching.

JY300 Basic Power Supplies



Type of Output: Constant-Voltage, Current
Output range: JY300: 5~300V、 1~300mA、 maximum 90W
Increment: 1V, 1mA
Timer Range: 1min~9hr, 59min
Display: LED
Output jacks: Two sets of output jacks
Volume(LxWxH): 280x237x118(mm)
Weight: 3.0(kg)

- Molding shell, touch keys, microprocessor intelligent control;
- With automatic memory function;
- With standard, timing operation function;
- Automatic detection of no-load, over-load.

JY600 Basic Power Supplies



Type of Output: Constant-Voltage, Current
Output range: JY600: 5~600V、 1~200mA、 maximum 120W
Increment: 1V, 1mA
Timer Range: 1min~9hr, 59min
Display: LED
Output jacks: Two sets of output jacks
Volume(LxWxH): 280x237x118(mm)
Weight: 3.0(kg)

- Molding shell, touch keys, microprocessor intelligent control;
- With automatic memory function;
- With standard, timing operation function;
- Automatic detection of no-load, over-load.

Horizontal Electrophoresis

Horizontal gel electrophoresis offers many advantages for nucleic acid separation and remains today one of the mainstays of molecular biology. JUNYI offers the most comprehensive and versatile line of horizontal gel electrophoresis units currently available for low-and high-throughput DNA and RNA applications.

JY-series horizontal electrophoresis tank comprise 10 models, including: JY-SPAT、JY-SPBT、JY-SPCT、JY-SPDT、JY-SPFT、JY-SPGT、JY-SP7、JY-SP7A、JY-SP3、JY-SP11.

JY series horizontal electrophoresis tank function table

Model Function	JY-SPAT	JY-SPBT	JY-SPCT	JY-SPDT	JY-SPFT	JY-SPGT	JY-SP7	JY-SP7A	JY-SP3	JY-SP11
Nucleic acid sample analysis, purification and preparation	•	•	•	•	•	•				•
High-throughput assay for PCR samples			•		•	•			•	•
Paper electrophoresis of hemoglobin, experiment							•	•		
Slide electrophoresis (comet assay)							•	•		
Cellulose acetate membrane electrophoresis							•	•		

Technical specifications for JY-series Horizontal Electrophoresis

Model	Gel area (W×L)mm	Buffer capacity ml	Comb rows	No. of samples	Gel making	Advised electrophoresis apparatus
JY-SPAT	48×75	~150	1~2	3~18	Gel box	JY300C/JY300E
JY-SPBT	78×100	~400	1~2	10~30	Gel box	JY300C/JY300E
JY-SPCT	120×120、60×120 120×60、60×60	~550	1~4	1~100	Gel box	JY300E/JY600E
JY-SPDT	140×140、140×70 70×70	~900	1~3	1~87	Gel box	JY300E/JY600E
JY-SPFT	130×130、78×100 48×75	~600	1~4	3~104	Gel casting	JY300E/JY600E
JY-SPGT	200×200、200×150 200×100	~2000	1~6	17~264	Gel casting	JY600C/JY600E
JY-SP3	85×200	~50	1~12	10~216	Baffle	JY300E/JY600E
JY-SP11	245×250	~1700	1~7	52~364	Gel casting	JY600C/JY600E

JY-SPAT Horizontal Electrophoresis tank

- Abundant buffer not only guarantees cooling effects, but also keeps the pH Value stable during the whole experiment process.
- Unfolded electrodes make repair and parts replacement easy and quick.
- With the sample background color design on the tray, convenient to adding the sample.
- The transparent top lid effectively prevents liquid in the cell from volatilizing and avoids electricity leakage.
- Auto-switch-off when the lid is removed.



JY-SPAT Technical specifications

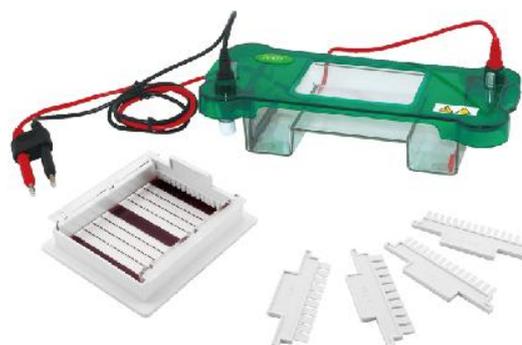
Gel area (W×L)	48×75 (mm)
No. of samples	3~18
Buffer capacity	~150 (ml)
Volume (L×W×H)	250×90×50 (mm)
Weight	0.4 (kg)

JY-SPAT Packing configuration

Parts name	Packing quantity
Body tank with electrode	1
48×75mm Gel tray	1
Gel box	1
1.0mm thickness 3 wells comb	2
1.5mm thickness 3 wells comb	2
1.0mm thickness 5 wells comb	2
1.5mm thickness 5 wells comb	2
1.0mm thickness 9 wells comb	2
1.5mm thickness 9 wells comb	2
Electrical Cables	1

JY-SPBT Horizontal Electrophoresis tank

- Abundant buffer not only guarantees cooling effects, but also keeps the pH Value stable during the whole experiment process.
- Unfolded electrodes make repair and parts replacement easy and quick.
- With the sample background color design on the tray, convenient to adding the sample.
- The transparent top lid effectively prevents liquid in the cell from volatilizing and avoids electricity leakage.
- Auto-switch-off when the lid is removed.



JY-SPBT Technical specifications

Gel area (W×L)	78×100 (mm)
No. of samples	10~30
Buffer capacity	~400 (ml)
Volume (L×W×H)	365×105×55 (mm)
Weight	0.6 (kg)

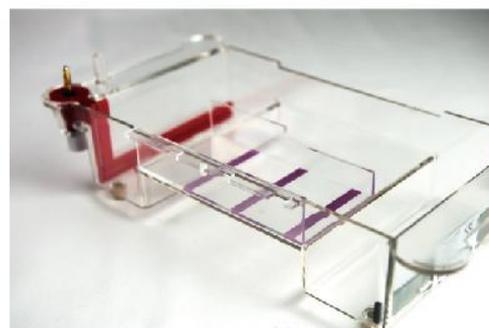
JY-SPBT Packing configuration

Parts name	Packing quantity
Body tank with electrode	1
78×100mm Gel tray	1
Gel box	1
1.0mm thickness 10 wells comb	2
2.0mm thickness 10 wells comb	2
1.0mm thickness 15 wells comb	2
2.0mm thickness 15 wells comb	2
Electrical Cables	1

JY-SPCT Horizontal Electrophoresis tank



- Abundant buffer not only guarantees cooling effects, but also keeps the pH Value stable during the whole experiment process.
- Unfolded electrodes make repair and parts replacement easy and quick.
- With the sample background color design on the tray, convenient to adding the sample.
- The transparent top lid effectively prevents liquid in the cell from volatilizing and avoids electricity leakage.
- Auto-switch-off when the lid is removed.



- With the drift prevention function on the tray, effectively prevent the band bending.

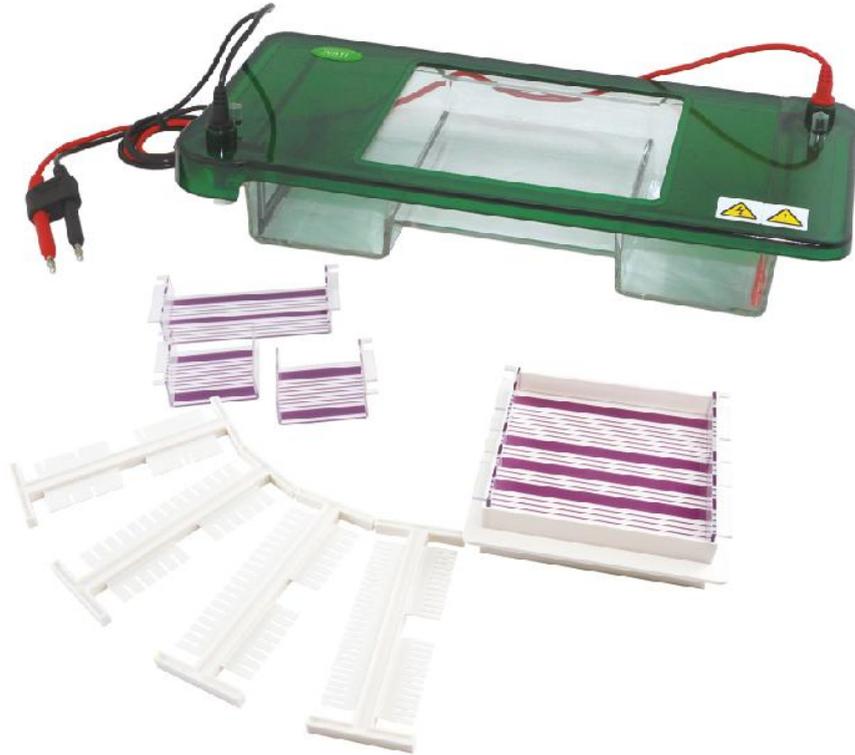
JY-SPCT Technical specifications

Gel area (W×L)	120×120 (mm)
	120×60 (mm)
	60×120 (mm)
	60×60 (mm)
No. of samples	1~100
Buffer capacity	~550 (ml)
Volume (L×W×H)	300×160×75 (mm)
Weight	1.1 (kg)

JY-SPCT Packing configuration

Parts name	Packing quantity
Body tank with electrode	1
120×120mm Gel tray	1
120×60mm Gel tray	1
60×120mm Gel tray	1
60×60mm Gel tray	2
Gel box	1
1.5mm thickness 1/2/3 wells comb	1
1.0mm thickness 6/13 wells comb	2
1.0mm thickness 8/18 wells comb	2
1.0mm thickness 11/25 wells comb	2
level adjustment of leg button	4
Electrical Cables	1

JY-SPDT Horizontal Electrophoresis tank



- Abundant buffer not only guarantees cooling effects, but also keeps the pH Value stable during the whole experiment process.
- Unfolded electrodes make repair and parts replacement easy and quick.
- With the sample background color design on the tray, convenient to adding the sample.
- The transparent top lid effectively prevents liquid in the cell from volatilizing and avoids electricity leakage.
- Auto-switch-off when the lid is removed.

JY-SPDT Technical specifications

Gel area (W×L)	140×140 (mm)
	140×70 (mm)
	70×70 (mm)
No. of samples	1~87
Buffer capacity	~900 (ml)
Volume (L×W×H)	390×187×63 (mm)
Weight	2.0 (kg)

JY-SPDT Packing configuration

Parts name	Packing quantity
Body tank with electrode	1
140×140mm Gel tray	1
140×70mm Gel tray	1
70×70mm Gel tray	2
Gel box	1
1.5mm thickness 1/2/3 wells comb	1
1.0mm thickness 6/14 wells comb	1
1.0mm thickness 8/17 wells comb	2
1.0mm thickness 13/29 wells comb	2
Buffer saving module	2
Electrical Cables	1

JY-SPFT Horizontal Electrophoresis tank



- Abundant buffer not only guarantees cooling effects, but also keeps the pH Value stable during the whole experiment process.
- Unfolded electrodes make repair and parts replacement easy and quick.
- With the fluorescent ruler on the tray, can be observed directly into the ultraviolet.
- With a special gel casting, preventing the gel leakage, operation is simple and convenient.
- The transparent top lid effectively prevents liquid in the cell from volatilizing and avoids electricity leakage.
- Auto-switch-off when the lid is removed.

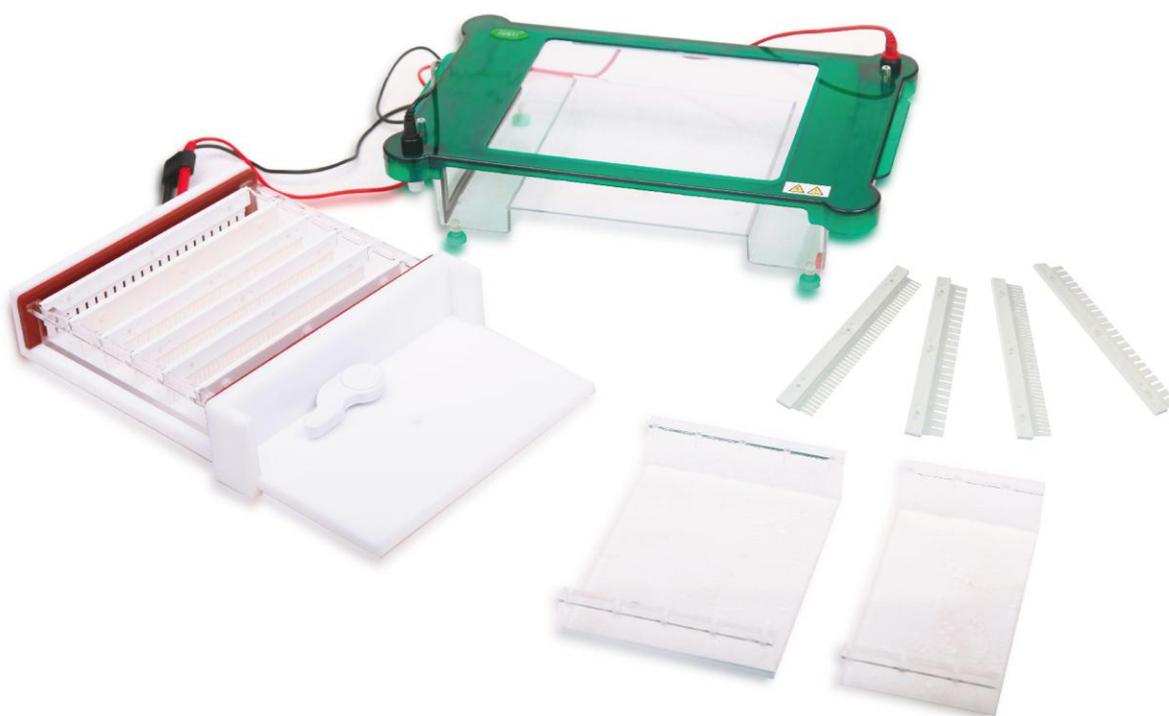
JY-SPFT Technical specifications

Gel area (W×L)	130×130 (mm)
	78×100 (mm)
	48×75 (mm)
No. of samples	3~104
Buffer capacity	~600 (ml)
Volume (L×W×H)	305×152×80 (mm)
Weight	1.7 (kg)

JY-SPFT Packing configuration

Parts name	Packing quantity
Body tank with electrode	1
130×130mm Gel tray	1
78×100mm Gel tray	1
48×75mm Gel tray	2
Gel casting	1
1.0mm thickness 13 wells comb	2
1.5mm thickness 13 wells comb	2
1.0mm thickness 26 wells comb	4
1.5mm thickness 26 wells comb	2
1.0mm thickness 10 wells comb	2
1.0mm thickness 15 wells comb	2
1.5mm thickness 3 wells comb	2
1.0mm thickness 5 wells comb	2
level adjustment of leg button	4
Electrical Cables	1

JY-SPGT Horizontal Electrophoresis tank



- also keeps the pH Value stable during the whole experiment process.
- Unfolded electrodes make repair and parts replacement easy and quick.
- With a special gel casting, preventing the gel leakage, operation is simple and convenient.
- The transparent top lid effectively prevents liquid in the cell from volatilizing and avoids electricity leakage.
- Auto-switch-off when the lid is removed.

JY-SPGT Technical specifications

Gel area (W×L)	200×200 (mm)
	200×150 (mm)
	200×100 (mm)
No. of samples	17~104
Buffer capacity	~1800 (ml)
Volume (L×W×H)	397×230×93 (mm)
Weight	3.3 (kg)

JY-SPGT Packing configuration

Parts name	Packing quantity
Body tank with electrode	1
200×200mm Gel tray	1
200×150mm Gel tray	1
200×100mm Gel tray	1
Gel casting	1
1.0mm thickness 17 wells comb	2
1.8mm thickness 17 wells comb	2
1.0mm thickness 22 wells comb	2
1.8mm thickness 22 wells comb	2
1.0mm thickness 36 wells comb	2
1.8mm thickness 36 wells comb	2
1.0mm thickness 44 wells comb	2
1.8mm thickness 44 wells comb	2
level adjustment of leg button	4
Electrical Cables	1

JY-SP7 Cellulose acetate membrane electrophoresis tank

- The JY-SP7 is updated from the JY-SP7A with a double-bridge style design;
- With a cooling device, which can make the electrophoresis process under constant temperature;
- You can adjusting the position of the adjusting rod according to the medium length, to meet the different electrophoretic distance;
- Unfolded electrodes make repair and parts replacement easy and quick.
- Auto-switch-off when the lid is removed.



JY-SP7 Technical specifications

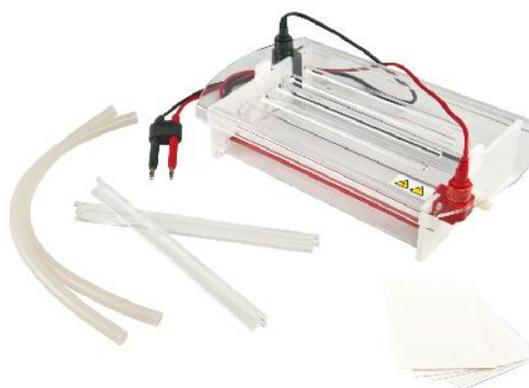
Bridge Size (W×L)	70×250 (mm) ×2
	90×250 (mm) ×2
Buffer capacity	~1000 (ml)
Volume (L×W×H)	350×260×65 (mm)
Weight	1.6 (kg)

JY-SP7 Packing configuration

Parts name	Packing quantity
Body tank with electrode	1
Adjusting rod	4
Cellulose Acetate Membrane	10
Cooling pipe	2
Electrical Cables	1

JY-SP7A Cellulose acetate membrane electrophoresis tank

- With a cooling device, which can make the electrophoresis process under constant temperature;
- You can adjusting the position of the adjusting rod according to the medium length, to meet the different electrophoretic distance;
- Unfolded electrodes make repair and parts replacement easy and quick.
- Auto-switch-off when the lid is removed.



JY-SP7A Technical specifications

Bridge Size (W×L)	66×250 (mm)
	82×250 (mm)
Buffer capacity	~560 (ml)
Volume (L×W×H)	318×175×65 (mm)
Weight	1.0 (kg)

JY-SP7A Packing configuration

Parts name	Packing quantity
Body tank with electrode	1
Adjusting rod	2
Cellulose Acetate Membrane	10
Cooling pipe	2
Electrical Cables	1

JY-SP3 Horizontal Electrophoresis tank

- Fast electrophoresis running speed, the whole process can be finished within 15mins.
- 96 sample detection in one time.
- Adding the sample quickly, suitable for the multi-channel pipettes.
- Auto-switch-off when the lid is removed.



JY-SP3 Packing configuration

Parts name	Packing quantity
Body tank with electrode	1
85×200mm Gel tray	1
Baffle	2
Combined comb frame	1
1.0mm thickness 10 wells comb	12
1.8mm thickness 18 wells comb	12
Electrical Cables	1

JY-SP3 Technical specifications

Gel area (W×L)	85×200 (mm)
No. of samples	10~216
Buffer capacity	~50 (ml)
Volume (L×W×H)	300×150×61 (mm)
Weight	0.5 (kg)

The other Horizontal Electrophoresis tank

- Suitable for high throughput screening of DNA electrophoresis.
- Suitable for the multi-channel pipettes.
- We can assist the design, production of non-standard electrophoresis tank according to the needs of users, in order to meet the special requirements of different experiment.



JY-SP11 Packing configuration

Parts name	Packing quantity
Body tank with electrode	1
245×250mm Gel tray	1
Gel casting	1
1.8mm thickness 52 wells comb	7
Electrical Cables	1

JY-SP11 Technical specifications

Gel area (W×L)	245×250 (mm)
No. of samples	52~364
Buffer capacity	~1700 (ml)
Volume (L×W×H)	460×285×90 (mm)
Weight	5.8 (kg)

Vertical Electrophoresis

Vertical electrophoresis utilises potent protein and nucleic acid analytical tools for applications within all aspects of life science research, ranging from purity determination to analysis of complex protein lysates. JUNYI provide a comprehensive range of vertical electrophoresis system, complete with tanks, inserts and reagents to fulfil a variety of applications and techniques in different gel size and sample capacities.

JY-series vertical electrophoresis tank comprise 10 models, including: JY-SCZ2+, JY-SCZ4+, JY-CZ-A, JY-CZ-AL, JY-CZ-B, JY-CZ-BL, JY-JX3, JY-JX3L, JY-JX5, JY-JX5L.

JY series vertical electrophoresis tank function table

Model	JY-SCZ2+	JY-SCZ4+	JY-CZ-A	JY-CZ-AL	JY-CZ-B	JY-CZ-BL	JY-JX3	JY-JX3L	JY-JX5	JY-JX5L
Protein samples analysis, purification Nucleic acid	•	•	•	•	•	•	•	•	•	•
sample analysis, purification and preparation			•	•	•	•	•	•	•	•
Seed purity testing					•	•			•	•
Analysis of high-throughput SSR markers					•	•			•	•

Technical specifications for JY-series Vertical Electrophoresis

Model	Gel area (W×L)mm	Buffer capacity ml	No. of samples	Gel making	Advised electrophoresis apparatus
JY-SCZ2+	82×88	~750	11~30	Gel casting	JY300C/JY300E
JY-SCZ4+	82×88	~1000	11~60	Gel casting	JY600C/JY600E
JY-JX3	160×150	~1500	21~70	Agarose sealing	JY300C/JY300E
JY-JX3L	160×205	~3000	21~70	Agarose sealing	JY600C/JY600E
JY-JX5	186×95	~1800	25~104	Agarose sealing	JY300C/JY300E
JY-JX5L	186×205	~3500	25~104	Agarose sealing	JY600C/JY600E
JY-CZ-A	160×150	~1500	21~70	Gel casting	JY300C/JY300E
JY-CZ-AL	160×205	~3000	21~70	Gel casting	JY600C/JY600E
JY-CZ-B	186×95	~1800	25~104	Gel casting	JY300C/JY300E
JY-CZ-BL	186×205	~3500	25~104	Gel casting	JY600C/JY600E

JY-SCZ2+ Vertical Electrophoresis tank



- The installation of the glass plate in just 15 seconds, and does not need the knob, fast and convenient.
- With the gel making device of normal position, don't should to moving the glass plate from the process of making gel to electrophoresis, convenient for observation the gel preparation from the glass on both sides, ensures fast set up times and leak-free operation.
- With the background color, easy to be observed in the sample adding and electrophoresis process.
- Abundant buffer not only guarantees cooling effects, but also keeps the pH Value stable during the whole experiment process.
- Auto-switch-off when the lid is removed.

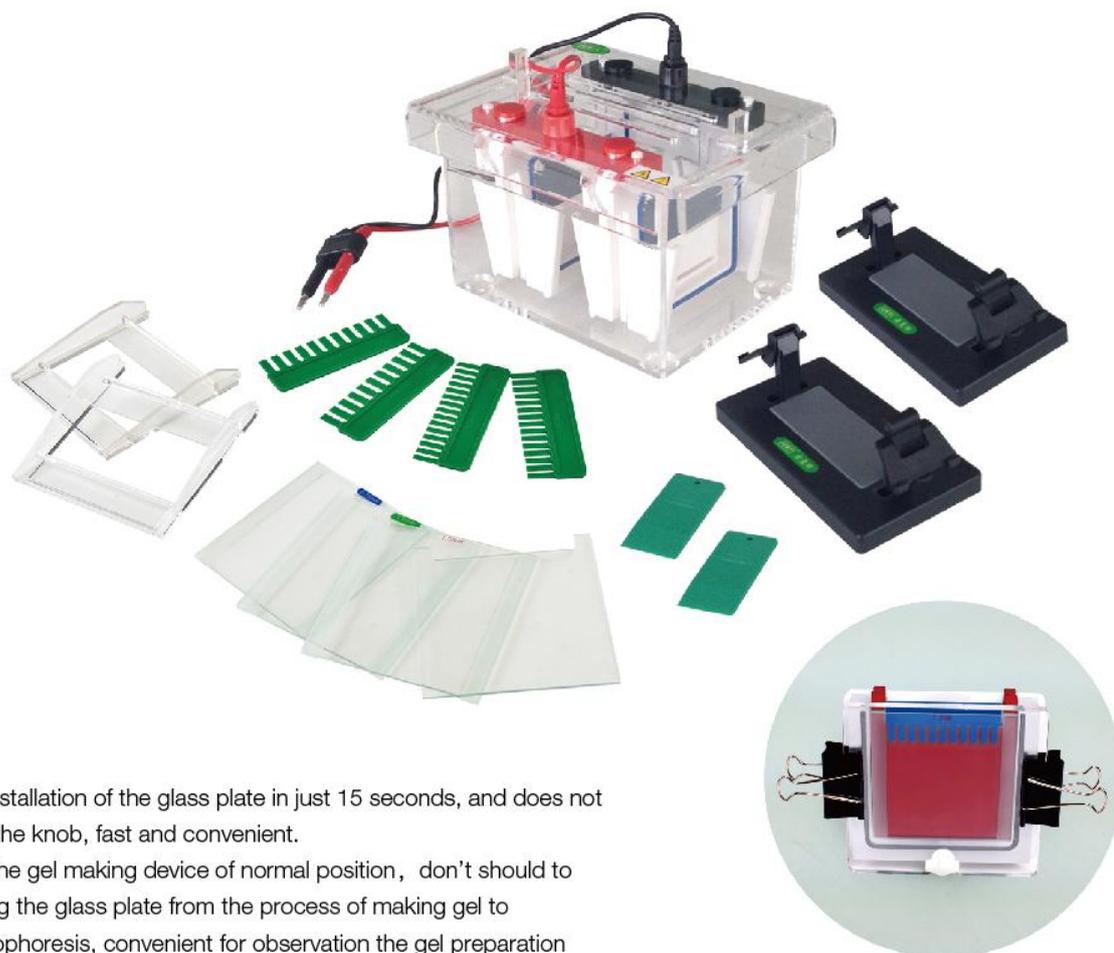
JY-SCZ2+ Technical specifications

Glass plate area (W×L)	100×100 (mm)
Gel area (W×L)	82×88 (mm)
Gel thickness	0.75、1.0、1.5 (mm)
Amount of gel	1~2 (piece)
No. of samples	11~30
Buffer capacity	~750 (ml)
Volume (L×W×H)	150×120×115 (mm)
Weight	1.5 (kg)

JY-SCZ2+ Packing configuration

Parts name	Packing quantity
Body tank with electrode	1
Gel casting base	1
Notched glass plates	4
0.75mm bonded glass spacer	2
1.0mm bonded glass spacer	2
1.5mm bonded glass spacer	2
0.75mm thickness 11 wells comb	2
1.0mm thickness 11 wells comb	2
1.5mm thickness 11 wells comb	2
0.75mm thickness 15 wells comb	2
1.0mm thickness 15 wells comb	2
1.5mm thickness 15 wells comb	2
Gel Shovel	1
Clamp version	2
Dummy plate	1
Electrical Cables	1

JY-SCZ4+ Vertical Electrophoresis tank



- The installation of the glass plate in just 15 seconds, and does not need the knob, fast and convenient.
- With the gel making device of normal position, don't should to moving the glass plate from the process of making gel to electrophoresis, convenient for observation the gel preparation from the glass on both sides, ensures fast set up times and leak-free operation.
- With the background color, easy to be observed in the sample adding and electrophoresis process.
- Abundant buffer not only guarantees cooling effects, but also keeps the pH Value stable during the whole experiment process.
- Auto-switch-off when the lid is removed.

Multi board gel making device (optional)

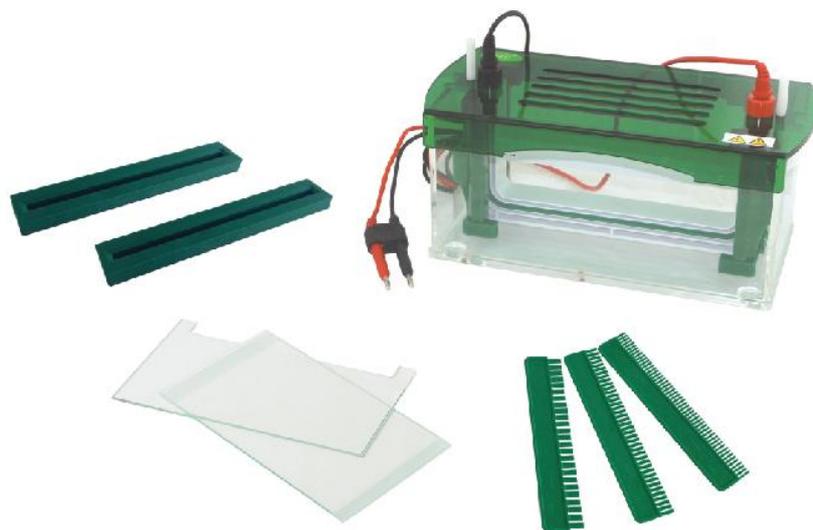
JY-SCZ4+ Technical specifications

Glass plate area (W×L)	100×100 (mm)
Gel area (W×L)	82×88 (mm)
Gel thickness	1.0、1.5 (mm)
Amount of gel	1~4 (piece)
No. of samples	11~60
Buffer capacity	~1000 (ml)
Volume (L×W×H)	220×170×120 (mm)
Weight	2.5 (kg)

JY-SCZ4+ Packing configuration

Parts name	Packing quantity
Body tank with electrode	1
Gel casting base	2
Notched glass plates	6
1.0mm bonded glass spacer	4
1.5mm bonded glass spacer	4
1.0mm thickness 11 wells comb	4
1.5mm thickness 11 wells comb	4
1.0mm thickness 15 wells comb	4
1.5mm thickness 15 wells comb	4
Gel Shovel	4
Clamp version	2
Dummy plate	3
Electrical Cables	1

JY-JX series Vertical Electrophoresis tank



- The installation of the glass plate in just 15 seconds, and does not need the knob, fast and convenient.
- With the gel making device modular, you can make multi slab gel at the same time.
- Safety cover open button design, convenient opening the cover.
- Abundant buffer not only guarantees cooling effects, but also keeps the pH Value stable during the whole experiment process.
- Auto-switch-off when the lid is removed.



Use the gel making modular to make the multi slab gel at the same time.

Technical specifications for JY-JX series Vertical Electrophoresis tank

	JY-JX3	JY-JX3L	JY-JX5	JY-JX5L
Glass plate area (W×L)	190×165 (mm)	190×220 (mm)	216×110 (mm)	216×220 (mm)
Gel area (W×L)	160×150 (mm)	160×205 (mm)	186×95 (mm)	186×205 (mm)
Gel thickness	1.0 (mm)	1.0 (mm)	1.0 (mm)	1.0 (mm)
Amount of gel	1~2* (piece)	1~2* (piece)	1~2* (piece)	1~2* (piece)
No. of samples	21, 35	21, 35	25, 40, 52	25, 40, 52
Buffer capacity	~1500 (ml)	~3000 (ml)	~1800 (ml)	~3500 (ml)
Volume (L×W×H)	254×140×200 (mm)	254×140×250 (mm)	280×140×135 (mm)	280×140×250 (mm)
Weight	4.0 (kg)	5.2 (kg)	3.2 (kg)	5.6 (kg)

* We can provide 4 or 6 plates system for you to meet the requirement of high throughput electrophoresis.

JY-CZ series Vertical Electrophoresis tank



Wrench fastening methods, quickly and easily installation the glass plate

Gel making device of normal position

- The installation of the glass plate in just 15 seconds, and does not need the knob, fast and convenient.
- With the gel making device of normal position, don't should to moving the glass plate from the process of making gel to electrophoresis.
- With the Precast gel inner core, do not affecting the operation of gel making while the electrophoresis.
- Safety cover open button design, convenient opening the cover.
- Abundant buffer not only guarantees cooling effects, but also keeps the pH Value stable during the whole experiment process.
- Auto-switch-off when the lid is removed.

With the Precast gel inner core, do not affecting the operation of gel making while the electrophoresis.

Technical specifications for JY-CZ series Vertical Electrophoresis tank

	JY-CZ-A	JY-CZ-AL	JY-CZ-B	JY-CZ-BL
Glass plate area (W×L)	190×165 (mm)	190×220 (mm)	216×110 (mm)	216×220 (mm)
Gel area (W×L)	160×150 (mm)	160×205 (mm)	186×95 (mm)	186×205 (mm)
Gel thickness	1.0 (mm)	1.0 (mm)	1.0 (mm)	1.0 (mm)
Amount of gel	1~2* (piece)	1~2* (piece)	1~2* (piece)	1~2* (piece)
No. of samples	21, 35	21, 35	25, 40, 52	25, 40, 52
Buffer capacity	~1500 (ml)	~3000 (ml)	~1800 (ml)	~3500 (ml)
Volume (L×W×H)	254×140×200 (mm)	254×140×250 (mm)	280×140×135 (mm)	280×140×250 (mm)
Weight	4.0 (kg)	5.2 (kg)	3.2 (kg)	5.6 (kg)

* We can provide 4 or 6 plates system for you to to meet the requirement of high throughput electrophoresis.

Nucleic Acid Sequencing

The JY-series Nucleic Acid sequencing products are designed for AFLP analysis, difference display, SSR and SSCP research activities. They are also fit for heteroduplex, DNA foot printing, RNase protection test, S1 Nucleic acid enzyme figures and Primer Extension experiments.

JY-series Nucleic Acid sequencing products comprise 3 models, including: JY-CX1B、JY-CX2B、JY-CX3B.



● Unfolded electrodes

- Simple operation, only four fastening knobs needed.
- 50% buffer savings compared with traditional tanks.
- Unfolded electrodes make repair and parts replacement easy and quick.
- Special heat dissipation processed aluminum plate firmly clings to the gel plates, which effectively guarantees the gel temperature is even, ensuring the electrophoresis trip is straighter.
- Auto-switch-off when the lid is removed.



- High quality 0.4mm thickness shark tooth sample adding comb

Technical specifications for JY-CX series Nucleic Acid sequencing

	JY-CX1B	JY-CX2B	JY-CX3B
Glass plate area (W×L)	200×450 (mm)	350×450 (mm)	350×350 (mm)
Gel area (W×L)	180×420 (mm)	330×420 (mm)	330×320 (mm)
Gel thickness	0.4 (mm)	0.4 (mm)	0.4 (mm)
Amount of gel	1 (piece)	1 (piece)	1 (piece)
No. of samples	32, 39	50, 62, 74, 100	50, 62, 74, 100
Buffer capacity	~500 (ml)	~750 (ml)	~750 (ml)
Volume (L×W×H)	310×230×500 (mm)	455×230×500 (mm)	460×230×400 (mm)
Weight	11.0 (kg)	16.5 (kg)	13.2 (kg)

Trans-Blotting

Transing-Blotting, a technique that entails immobilisation of proteins or nucleic acids on a solid membrane support and then detection using a specific antibody or probe of complementary nucleic acid sequence, significantly increase the potential for identification and characterisation of proteins and nucleic acids. Upon transfer to a membrane support protein and nucleic acids become far more accessible to detection by antibodies and probes than they would otherwise be within a gel.

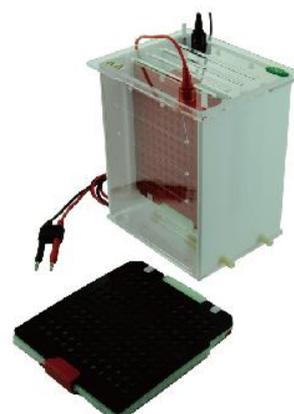
JY-series Trans-Blotting products comprise 4 models, including: JY-ZY2、JY-ZY3、JY-ZY5、JY-ZY6

JY-ZY2 Tank transfer

- With a cooling device, ensure the transfer effect.
- Auto-switch-off when the lid is removed.

JY-ZY2 Packing configuration

Parts name	Packing quantity
Body tank with electrode	1
Transfer splint	2
Fibre pads	4
Cooling pack	1
Cooling pipe	2
Electrical Cables	1



JY-ZY2 Technical specifications

Trans area (W×L)	175×175 (mm)
Buffer capacity	~4000 (ml)
Volume (L×W×H)	205×170×240 (mm)
Weight	2.3 (kg)

JY-ZY series Semi-dry transfer

- Transfer speed, can be completed in 1 hours.
- Less heat produce, does not require cooling device.
- Only few of the buffer needed compared with the tank transfer.
- Auto-switch-off when the lid is removed.

JY-ZY3 Technical specifications

Trans area (W×L)	140×140 (mm)
Volume (L×W×H)	185×175×40 (mm)
Weight	1.4 (kg)



JY-ZY4 Technical specifications

Trans area (W×L)	240×160 (mm)
Volume (L×W×H)	285×195×40 (mm)
Weight	3.0 (kg)

JY-ZY5 Tank transfer

- Electrode spacing is small, greatly save transfer time.
- With the color marking on the splint, to ensure put the gel right into the inner core.
- Unfolded electrodes make repair and parts replacement easy and quick.
- The transparent top lid effectively prevents liquid in the cell from volatilizing and avoids electricity leakage.
- Auto-switch-off when the lid is removed.
- Not only can be used as a device independent, and can be used as a module with the buffer tank of JY-SCZ2+.



JY-ZY5 Packing configuration

Parts name	Packing quantity
Body tank with electrode	1
Transfer splint	2
Fibre pads	4
Electrical Cables	1

JY-ZY5 Technical specifications

Trans area (W×L)	100×100 (mm)
Buffer capacity	~750 (ml)
Volume (L×W×H)	150×120×115 (mm)
Weight	0.8 (kg)

JY-ZY6 Tank transfer module

- JY-ZY6 Tank transfer module can be used as a module with the buffer tank of JY-SCZ2+.



JY-ZY6 Packing configuration

Parts name	Packing quantity
Body tank with electrode	1
Transfer splint	2
Fibre pads	4

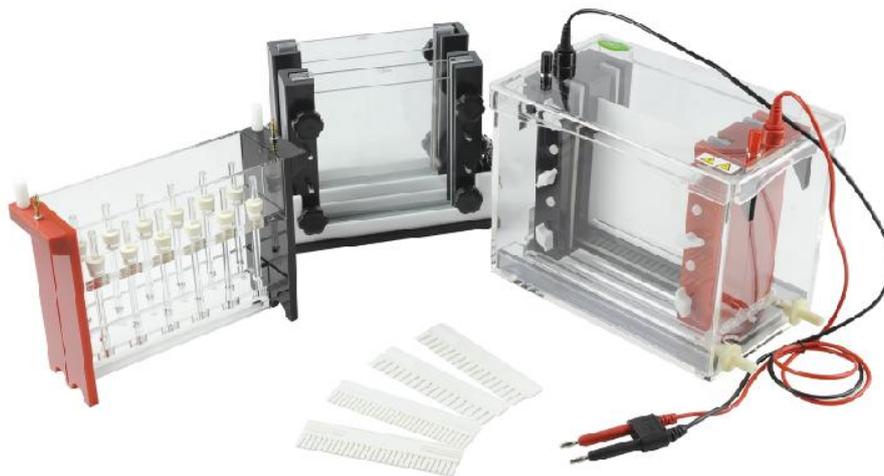
JY-ZY6 Technical specifications

Trans area (W×L)	100×100 (mm)
Volume (L×W×H)	139×55×105 (mm)
Weight	0.4 (kg)

2D Gel Electrophoresis

Two dimensional electrophoresis is a combination of isoelectric focusing electrophoresis and SDS-PAGE, namely the first isoelectric focusing electrophoresis (according to pI separation), then SDS-PAGE (according to molecular size), after electrophoresis graph coloring obtained is a two-dimensional distribution of protein map.

JY-SX3 2D Gel Electrophoresis



- Does not require special high current electrophoresis apparatus, normal electrophoresis instrument can meet the demand of the experiment.
- The 1D and 2D is separate, can become independent electrophoresis tank.
- You can pass into the cooling water circulation, ensure the cooling effect.
- With special gel caster, and realize the integrated casting gel, avoid the damage of gel out of second movement.
- Switching off when opening the lid, safe electrical cables and made the operation simpler.

JY-SX3 Technical specifications

ID Tube Gel Electrophoresis:	
length of Glass tube	120 (mm)
Gel diameter	1.0、 2.0 (mm)
2D Vertical Electrophoresis	
Gel size (W×L)	143×139 (mm)
Gel thickness	1.0 (mm) 、 2.0 (mm)
Gel Amount	2 (pieces)
Sample volume	17~58
Buffer Volume	~2500 (ml)
Volume (L×W×H)	460×230×400 (mm)
Weight	13.2 (kg)

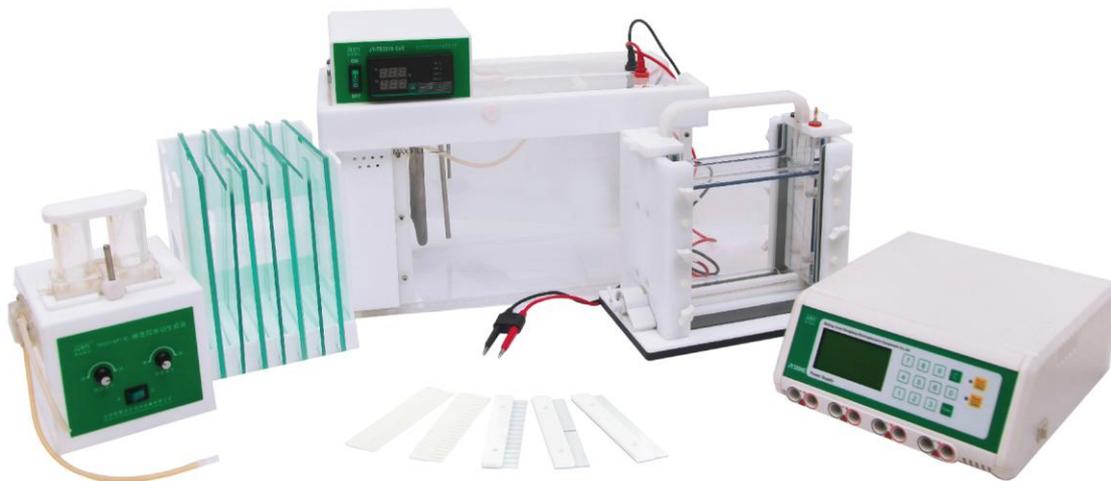
JY-SX3 Packing configuration

Parts name	Packing quantity
Electrophoresis Tank	1
Inner core of 1D	1
Inner core of 2D	1
Notched glass plates	4
1mm bonded glass spacer	2
2mm bonded glass spacer	2
1mm thick 21wells comb	2
2mm thick 21wells comb	2
1mm thick 29wells comb	2
2mm thick 29wells comb	2
1mm diameter glass tube	12
2mm diameter glass tube	12
Rubber plug	24
Gel casting	1
Silica gel tube	3
Electrical Cables	1

Denaturing Gradient Gel Electrophoresis System

Denaturing Gradient Gel Electrophoresis (DGGE) is an important technique used in the search for mutations and DNA polymorphisms critical in genetic disorders and cancers, and to understand genetic diversity among species.

JY-TD331A Denaturing Gradient Gel Electrophoresis System

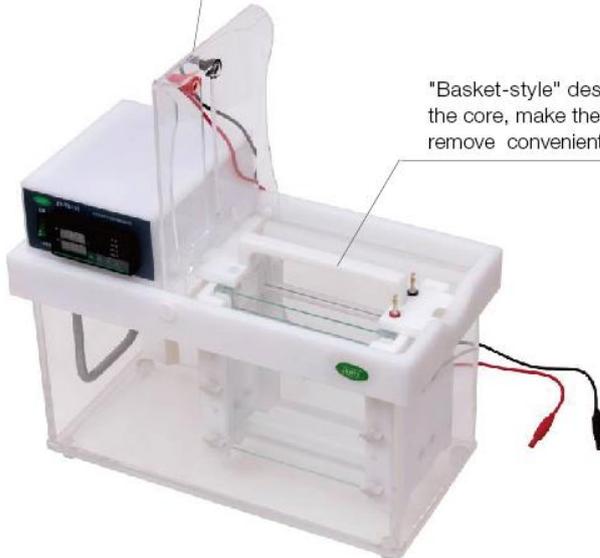


Product features

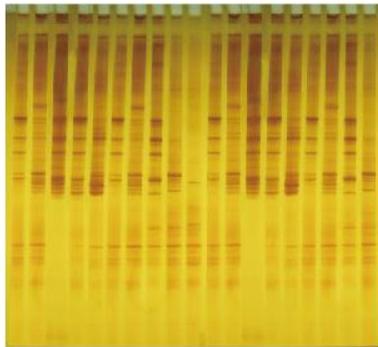
- With the gel making device of normal position, don't should to moving the glass plate from the process of making gel to electrophoresis.
- With the Gradient gel electric generator, the flow rate can be adjusted.
- Built-in miniature buffer liquid circulating pump, a buffer solution temperature uniformity can be achieved $\pm 5^{\circ}\text{C}$.
- Side-open safety lid, easy to loading the sample, automatically cut off the electric field when open the lid.
- Type of Output: Constant-Voltage, Current or Power
- Max output: 600V/500mA/300W.
- With over-voltage, overload auto-detection and alarm function.
- Can simultaneously display all set parameters and output status.
- Insulating fire-retardant materials, injection molding using the mold shell, advanced technology.
- Store 10 most common electrophoresis ways.
- Timer Range: 1min~99hr, 59min
- The temperature control probe with a safety sheath, protection of the probe does not damage.
- With the buffer liquid height sensors, protection of the product does not damage because of the lack of buffer capacity.

"Side-open" safety lid, easy to loading the sample automatically cut off the electric field when open the lid.

"Basket-style" design within the core, make the load and remove convenient



You can safely place the "Electrophoresis / temperature control module" and " Glass Plates"



The experimental spectrum

JY-TD331A Technical specifications

Glass plate area (W×L)	200×200 (mm)
Gel area (W×L)	162×175 (mm)
Gel thickness	1.0 mm
Amount of gel	1~2 (piece)
No. of samples	1~70
Buffer capacity	~10 (L)
Volume (L×W×H)	458×230×285 (mm)
Weight	23.0 (kg)

JY-TD331A Packing configuration

Parts name	Packing quantity
Power supply	1
Body tank with electrode	1
Gel casting base	1
Gradient gel electric generator	1
Notched glass plates	4
1.0mm bonded glass spacer	4
1.0mm thickness 1 wells comb	2
1.0mm thickness 2 wells comb	2
1.0mm thickness 15 wells comb	2
1.0mm thickness 21 wells comb	2
1.0mm thickness 35 wells comb	2
Accessory bracket	1
Control cables	1
Electrical Cables	1

Pulsed Field Electrophoresis System

Pulsed field gel electrophoresis system is mainly used for the separation and analysis of genome DNA, DNA molecular detection and separation of 100bp-6Mb size, the separation is mainly applied to chromosome DNA, field construction, large fragment genomic library and identification of transgenic research analysis, etc..

JY600MCS-3 Pulsed Field Electrophoresis System

Patent No.: 201320519441.3



Product formation

- **Power supply module for Pulsed electric field:**

Molding shell, touch keys, dual core microprocessor intelligent control, with the program editing and automatic connection function, open cover power-off protection function, overload protection, no-load automatic memory function, the function of automatic shutdown function.

- **Output mode control allocation module for Pulsed electric field:**

In the control of CPU intelligent control unit, control of farm output in accordance with the procedure of mode of pulse electric power module, the controlled pulsed field voltage, current, electric field, electric field angle duration, output to a specific sub electrode pulse electrophoresis tank.

- **Pulsed electrophoresis tank module:**

Pulse field gel electrophoresis electrode composed of hexagonal, each side electrode are respectively provided with 3 independent sub electrode. The pulsed field electrophoresis pulsed field driving power supply output with pulsed field electrophoresis tank to specific points on the electrode, pulsed field strength, electric field, electric field angle conversion time meet the experimental pulse field gel electrophoresis experiments need.

At the same time control buffer cooling cycle unit to realize the constant temperature operation of the electrophoretic run, ensure the electrophoresis experiment effect.

- **Constant temperature circulator module :**

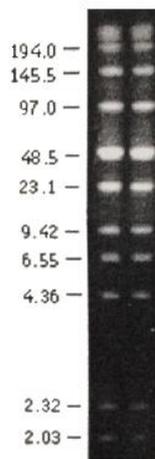
With the buffer refrigeration circulation pump, control electrophoresis temperature effectively, the use of high efficiency, long service life.

Product features

- The isolated fragment: 100bp-6Mb.
- Voltage gradient: Maximum of 9.5V/cm, increment 0.1v/cm.
- Maximum current: 0.5A.
- Maximum power: 300W.
- Pulse angle: $\pm 120^\circ$ 、 $\pm 180^\circ$, Having the field reversal function.
- Pulse width: 1~9999s or programmed pulse or 1~20s pulse line increase.
- Module timer: 1min~99hours 59min.
- Temperature ranges: 10°C~30°C, Accuracy to less than $\pm 0.5^\circ\text{C}$
- Temperature detection: Direct detection of buffer solution temperature, error is less than $\pm 0.1^\circ\text{C}$.
- Cyclic module: inner buffer cyclic system.
- Control function: Dual core microprocessor intelligent control, with the program editing and automatic connection function, Open cover power-off protection function, overload protection, no-load automatic memory function, the function of automatic shutdown function.

The imageshows:
low range PFG Marker
Pulsed field gel electrophoresis results.

The conditions of electrophoresis:
1% agarose gel,
electrophoresis buffer Milli-QTM water
preparation of 0.5XTBE (50mM Tris-HCL,
50mM 1mM, boric acid, EDTA)
With 4.5V/cm voltage,
Pulse time from one second to 12 seconds,
Temperature 15°C, electrophoresis of 15 hours.



JY600MCS-3 Technical specifications

Gel area (W×L)	120×120 (mm)
No. of samples	9~13
Buffer capacity	~3000 (ml)
Volume (L×W×H)	Power supply: 280×240×110 (mm)
	Pulsed tank: 465×445×142 (mm)
	Output control allocation: 465×445×100 (mm)
	Constant temperature circulator: 350×200×480 (mm)
Weight	85.2 (kg)

JY600MCS-3 Packing configuration

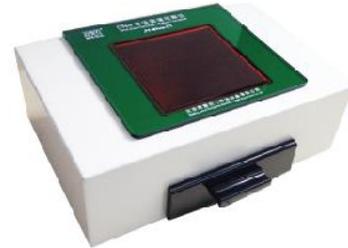
Parts name	Packing quantity
Power supply	1
Output control allocation	1
Pulsed Electrophoresis tank	1
Constant temperature circulator	1
Gel casting	1
48×75mm Gel tray	1
Gel pad	1
2.0mm thickness 9 wells comb	2
2.0mm thickness 13 wells comb	2
Sample module	2
Sample exporter	2
Level	1
Clip	2
Circular tube	3
Horizontal adjustment seat	4
Control line	2
Electrical Cables	1
Power cord	1

Electrophoresis Pattern Visualizer

JY series Electrophoresis Pattern Visualizer instrument is the necessary instrument for observed, photographed and cutting the electrophoresis gel. It comprise 5 models, including: JY-EPV-01、UV-II、JY02、JY02S、JY02G。

JY-EPV-01 Electrophoresis Pattern Visualizer

- Using the visible light, you can use the security environmental protection, fluorescent material instead of EB dye, to eliminate the harm to the human body.
- The observation method is simple, suitable for use in teaching.



JY-EPV-01 Technical specifications

Transmission size (W×L)	120×120 (mm)
Volume (L×W×H)	300×200×120 (mm)
Weight	4.2 (kg)

JY-EPV-01 Packing configuration

Parts name	Packing quantity
Mainframe	1
5A insurance tube	2
Power cord	1

UV- II Portable Transilluminator

- Small size, simple operation.
- Two kinds of UV wavelength, observe applicable to different gel.



UV- II Technical specifications

Reflection size (W×L)	200×50 (mm)
UV reflection wavelength	254、365 (nm)
Transmission UV lamp power	8 (W)
Volume (L×W×H)	270×78×110 (mm)
Weight	0.55 (kg)

UV- II Packing configuration

Parts name	Packing quantity
Mainframe	1
lamp tube clip	4
Power cord	1

JY02 UV Transilluminators

- The high transparent UV protective screen, can be opened to any angle, safe operation, convenient.
- Using the UV filter glass, quartz ultraviolet lamp, long service life, light uniform.



JY02 Technical specifications

Transmission size (W×L)	200×150 (mm)
Source ultraviolet wavelength	302 (nm)
Transmission UV lamp power	8 (W)
Volume (L×W×H)	325×265×150 (mm)
Weight	4.6 (kg)

JY02 Packing configuration

Parts name	Packing quantity
Mainframe	1
5A insurance tube	2
Power cord	1

JY02S UV Transilluminators

- No need for darkroom, can be use for all-weather.
- With the operation of export for cutting the gel.
- Using the UV filter glass, quartz ultraviolet lamp, long service life, light uniform.



JY02S Technical specifications

Transmission size (W×L)	200×150 (mm)
Transmission UV wavelength	302 (nm)
Reflectance UV wavelength	254、365 (nm)
Transmission UV lamp power	302nm (8W)
Reflectance UV lamp power	254nm (11W) 、365nm (11W)
Volume (L×W×H)	435×295×490 (mm)
Weight	16.9 (kg)

JY02S Packing configuration

Parts name	Packing quantity
Mainframe	1
Camera bracket	1
Power connecting wire	3
5A insurance tube	2
Power cord	1

Gel documentation

JY series Gel Document Imaging System is intended for band observation after electrophoresis run. DNA or other biomolecular cannot be seen under natural light, but with the help of UV light and high resolution CCD, DNA or other biomolecular can be visualized with a fluorescent stain such as ethidium bromide.

By using the JY series gel document imaging system, the electrophoresis band is analyzed by using software technology and the band picture can be zoomed in or zoomed out according to user's requirements.

JY04S-3C Gel documentation



- CCD with lower lux and high-resolution, easy to get dim stripes and real-time browse, whole-screen display and simple to operate:
- Six time zoom lens and simple to enlarge and shrink gel photos.
- The center position indicator, which can ensure the gel is placed in the center position.
- Intelligent control box:
 - You can realize the control of the zoom, focus, aperture, UV light and white light through panel key.
 - Safety function for your eyes that automatically shuts down the UV light when the door is opened and reactivates the UV light when the door is shut.
 - Timed shut down: The UV light protection system automatically shuts down the lights after 15 minutes to maximize the life of lamp and vitreous.
 - The zoom lens is protected with RS232 interface.
 - Drawer-style gel platform, convenient to observe, operate, and cutting gel.
- Transferring plate changes UV-light into white-light.
- Using a multi-layer gel-filter effectively filters background noise.
- You can realize the control of the zoom, focus, aperture, UV light and white light through computer mouse.
- Regular and reliable system convenient to maintain and exchange parts.

Technical specifications for JY-series Gel documentation

	JY04S-3C	JY04S-3E
Effective pixels	1280×1024	2560×1920
Pixel density	10 bit	10 bit
Pixel size	5.4×5.4 (um)	5.4×5.4 (um)
Resolution	1.4 megapixels	5.0 megapixels
Signal to noise ratio	≥56db	≥56db
Sensitivity	Can detect the double chain DNA of EB staining below 20pg.	Can detect the double chain DNA of EB staining below 20pg.
Camera	low illumination and high resolution digital CCD	low illumination and high resolution digital CCD
Zoom lens	F=1:1.2, 2/3 inch 6 times zoom lens	F=1:1.2, 2/3 inch 6 times zoom lens
Filter	590 (nm)	590 (nm)
UV light transmission area(W×L)	250×200 (mm)	250×200 (mm)
Visible light transmittance area(W×L)	250×210 (mm)	250×210 (mm)
Transmission UV wavelength	302 (nm)	302 (nm)
Reflectance UV wavelength	254、365 (nm)	254、365 (nm)
Transmission UV lamp power	302nm (8W)	302nm (8W)
Reflectance UV lamp power	254nm (11W) 、365nm (11W)	254nm (11W) 、365nm (11W)
Volume (L×W×H)	470×405×820 (mm)	470×405×820 (mm)
Weight	29.0 (kg)	29.0 (kg)



The center position indicator



UV protective cover, cutting operation is simple and safety.



- ① Gel observation door
- ② Gel drawer
- ③ The gel observation port

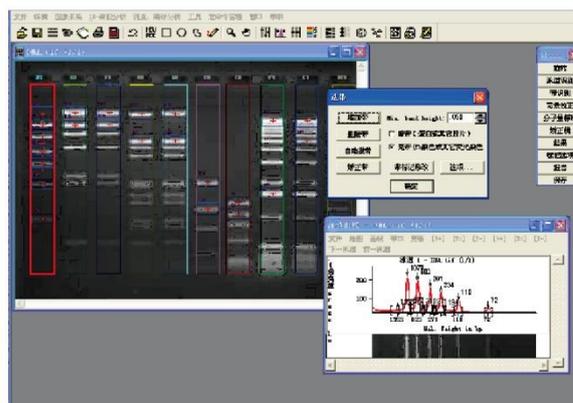
1. Real time image preview and photograph

- ① The exposure value adjustment: according to the different experimental conditions, automatically or manually adjust the exposure value, can achieve the best effect of exposure.
- ② Light control button: You can control the white light and UV lamp through the computer.
- ③ Fine and coarse adjustment button: Users can choose the regulation speed;
- ④ Zoom, focus, aperture adjusting button: you can adjusted the image size, focal length and the aperture by computer.
- ⑤ Flip vertical button: according to the need to flip the image;
- ⑥ Image capture button: you can take and save the image to a pictures.



2. Image analysis

- ① You can recognition the lane automatically or manually.
- ② You Can automatically and manually on the colony density, dot hybridization analysis, cloning count.
- ③ You can calculation and comparison the Molecules of nucleic acid, protein content, optical density, mobility and pH value and percentage content.
- ④ You can export all kinds of experimental report to a text or Excel format file and print.



3、 Image processing

- ① You can assist data shows, and provides text, arrows, graphics and other annotation tool for misoperation, unlimited undo data for protection.
- ② You can adjust the image of rotate, zoom, color, cut, brightness, grayscale, and contrast.

JY04S-3C/3E Packing configuration

Parts name	Packing quantity
Mainframe	1
UV protective cover	1
Transferring plate	1
Control line	1
USB line	1
5A insurance tube	2
Power cord	1

NZG-A Gel Vacuum Drier

- NZG-A Gel Vacuum Drier is designed for all kinds of electrophoresis gel drying. In order to prevent gel cracking, the gel drier is used to process it during daily experiments.



NZG-A Technical specifications

Drying size (W×L)	440×360 (mm)
Drying control	0~80℃
Timing range	20~40 min
Volume (L×W×H)	550×450×165 (mm)
Weight	23.0 (kg)

NZG-A Packing configuration

Parts name	Packing quantity
Mainframe	1
Filtering bottle	1
5A insurance tube	2
Power cord	1

JY1050 Constant Temperature Circulator

- JY-1050 Constant Temperature Circulator used to control an experiment's temperature at stable values during electrophoresis runs, JY-1050 also can be connected with the tank or other lab equipment to serve as a constant temperature controller.



JY1050 Technical specifications

Temperature control ranges	-10~99 (℃)
Temperature accuracy	±0.1 (℃)
Circulating fluid rate (L/min)	10 (L/min)
Tank volume (ml)	5 (L)
Power	500 (W)
Volume (L×W×H)	457×287×652 (mm)
Weight	45.0 (kg)

JY1050 Packing configuration

Parts name	Packing quantity
Mainframe	1
Power cord	1

Glass plate bracket

- For storing and drying the glass plate of vertical electrophoresis.

Technical specifications

Model	No. of the glass plate	Volume (L×W×H)
S	9 (piece)	148×105×60 (mm)
M	9 (piece)	213×203×95 (mm)
L	9 (piece)	500×317×133 (mm)



Plastic shovel

- Remove the gel from the glass plates.

Technical specifications

Model	Shovel area (L×W)
S	38×72 (mm)
M	80×160 (mm)
L	110×180 (mm)



Protein dry frame

- For drying the protein gel.

Technical specifications

Model	Drying area (W×L)	Volume (L×W×H)
S	120×150 (mm)	250×220×4 (mm)
Others	Can be customized	Can be customized



Horizontal stand

- For making the gel in the horizontal stand.

Technical specifications

Name	Volume (L×W×H)
Horizontal stand	240×250×60 (mm)
Level	Diameter 35 (mm)

