



Liquid separation Efficient Solutions

Nanjing Zktony Technology Co.,Ltd.

📍 A1 Floor, Longgang Science and Technology Park,
Hengyuan Road, Nanjing Economic and Technological
Development Zone, China

🌐 www.zktony.com



Rooted in technological innovation, strives to make experiments more efficient, precise, and effortless.

ABOUT US

关于我们

Nanjing Zktony Technology Co.,Ltd. is a high-tech enterprise specializing in the research, development, production, and sales of life science instruments, equipment, and experimental tools. Founded in 2019, the company is an incubator enterprise of Nanjing Advanced Laser Technology Research Institute.

Since its establishment, the company has always focused on technological innovation and research and development investment, developing many innovative and original products. These products have been gradually transformed and have received praise from users across the country and recognition from the market. With a professional research and development team and a comprehensive production management system, the company is able to respond promptly to different market demands and customer requirements, providing personalized customized services to meet the actual needs of customers in various fields.

The company's products are widely used in fields such as life science, pharmaceutical companies, IVD manufacturing companies, biological reagent research and development and production, veterinary reagents, inspection and quarantine, university laboratories, scientific research laboratories, medical inspection institutes, and CDCs.

The company will continue to adhere to the business philosophy of "scientific and technological innovation, quality-oriented, customer first," continuously promote technological innovation and product upgrading, provide customers with better quality products and services; continuously enhance its own strength and service level, create more excellent domestic products, fill the gaps in experimental instruments at home and abroad, and become a leading enterprise in life science innovative instruments.

产品目录

Product Catalog

01

Single channel liquid separation platform (single channel peristaltic pump)

S-Fact P100

02

Six channel liquid separation platform (6-channel peristaltic pump)

S-Fact P600

03

Twelve channel liquid separation platform (6 peristaltic pumps)

S-Fact P660

04

Eight channel liquid separation platform (8-1 peristaltic pumps)

S-Fact P800

05

High throughput reagent packaging workstation (12 channel peristaltic pump)

S-Fact P1200

06

High throughput reagent packaging workstation (12 injection pumps)

S-Fact S1200

07

Six channel liquid addition experimental workstation

S-Fact P6000

08

Automated liquid nitrogen bead freezer

S-Fact N1000

09

Four channel automated liquid nitrogen bead freezer

S-Fact N4000

10

Fully automatic culture medium plate packaging device

S-Fact C1180

01

S-Fact P100
Single channel liquid separation platform
 (single channel peristaltic pump)


This product adopts a single high-precision peristaltic pump design, which can achieve reagent packaging for various orifice plates and commonly used pipes, bottles, test tubes, deep well plates, shallow well plates in the laboratory. By automating tedious and repetitive packaging work, not only have labor costs been greatly saved, but packaging efficiency has also been significantly improved. Since the product was launched, we have continuously optimized and improved the packaging speed, packaging accuracy, and product performance based on customer feedback and needs. Although this instrument is only the size of A4 paper, coupled with powerful control software, it can save multiple liquid separation programs and achieve the separation of multiple containers on the same instrument.

Product features


Programmable operations



Large touch screen



High production efficiency



High precision (with errors as low as 1%), high repeatability and reliability



Calibratable and easy to clean



Compatible with multiple boards and tubes



Flexible customization

Product advantages

- Optional rows/columns/holes
- Pipeline can be calibrated and easy to clean
- Can save multiple calibration and liquid addition programs
- Customizable adapter racks can be customized according to various samples
- Can be packaged with viscous reagents such as glycerol and Tween
- Multiple liquid separation pipelines can be configured according to the volume requirements of liquid separation
- Separation speed: Various configurations such as 1mL/s, 6mL/s, 12mL/s, 20mL/s, etc. can be achieved on the same instrument
- The instrument can be customized to be larger or higher, and can meet the requirements of reagent packaging up to 200mL


Technical parameter

Product Name	Single channel liquid separation platform (single channel peristaltic pump)
model	S-Fact P100
Article number	TY-101-0102
Applicable scope	Liquid reagent packaging
Liquid separation accuracy	20-50 μ L \pm 8%; 50-100 μ L \pm 5%; above 100 μ L \pm 2%
Liquid addition speed	1mL/s, 6mL/s, 12mL/s, 20mL/s, etc. can be configured
Liquid addition mode	Optional row/column/hole, custom container type
Calibration settings	The pipeline can be calibrated, and the calibration data of different pump inner pipes can be saved and switched
Container plate position	1 (Customizable adapter rack)
Operation mode	7-inch Chinese color LCD touch screen display
operating system	Android System (V4.0)
data storage	Can save \geq 100 preset liquid dispensing programs and \geq 10 sets of pipeline calibration data
Pump type	B220
Maximum motor speed	600rpm
Working environment temperature	10 $^{\circ}$ C~40 $^{\circ}$ C
Relative humidity of working environment	\leq 80%
input voltage	200-240V (AC), 50-60Hz
Rated power	200W
Appearance dimensions	350 x 320 x 200 (mm)

02

S-Fact P600 Six channel liquid separation platform (6-channel peristaltic pump)



This product adopts a six channel dual head independent high-precision peristaltic pump, which can be divided into various deep hole plates and shallow hole plates; It can also be divided into various types of cryopreservation tubes, centrifuge tubes, and virus sampling tubes; It can also be divided into various types of reagent strips. This product is a widely used subpackaging instrument since the COVID-19 in 2020, and has won a good reputation (multi-functional subpackaging platform). Its beautiful appearance, small size, stable operation, and ultra-high separation speed and precision make an important contribution to the subpackaging of nucleic acid extraction reagents.

Product features



Programmable operations



Large touch screen



High production efficiency



High precision (with errors as low as 1%), high repeatability and reliability



Calibratable and easy to clean



Compatible with multiple boards and tubes



Flexible customization

Product advantages

- Calibratable
- Optional board
- Can be cleaned/sucked back
- The board position can be horizontal/vertical
- Optional rows/columns for individual board positions
- Can simultaneously package 1-6 reagents
- Can save multiple calibration and separation programs
- 96 hole plate with single hole 500 μL minute liquid can complete one board in 8 seconds



Technical parameter

Product Name	Six-channel dispensing platform (6-channel peristaltic pump)
model	S-Fact P600
Article number	TY-101-06
Applicable scope	Liquid reagent dispensing
Liquid separation accuracy	30-50 μL \pm 8%; 50-100 μL \pm 6%; above 100 μL \pm 5%
Liquid addition speed	8s/plate for 96-well plates, 500 μL per well
Liquid addition mode	Selectable row/column
Calibration settings	Tubing calibration available, calibration data for different pump tubes can be saved and switched
Container plate position	3 \times 96-well plates
Operation mode	7-inch Chinese color LCD touch screen
operating system	Android system (V4.0)
data storage	Can save \geq 100 preset dispensing programs and \geq 10 sets of tubing calibration data
Pump specifications	B200 \times 6
Maximum motor speed	600rpm
Working environment temperature	10 $^{\circ}\text{C}$ ~40 $^{\circ}\text{C}$
Relative humidity of working environment	\leq 80%
input voltage	200-240V (AC), 50~60Hz
Rated power	350W
Appearance dimensions	480 \times 450 \times 250 (mm)

03

S-Fact P660 十二通道分液平台 (6道蠕动泵)



This product adopts a six channel dual head independent high-precision peristaltic pump to achieve efficient operation and high-precision liquid separation. It can package reagents for 96 well plates and various commonly used laboratory tubes, and provide customized functions for customers. By automating the tedious and repetitive packaging work, labor costs can be saved and packaging efficiency can be improved. This product is a widely used subpackaging instrument since the COVID-19 in 2020. It has beautiful appearance, small size, stable operation, and ultra-high separation speed and precision, making an important contribution to subpackaging nucleic acid extraction reagents.

Product features



Programmable operations



Large touch screen



High production efficiency



High precision (with errors as low as 1%), high repeatability and reliability



Calibratable and easy to clean



Compatible with multiple boards and tubes



灵活定制

Product advantages

- Calibratable
- Optional board
- Can be cleaned/sucked back
- The board position can be horizontal/vertical
- Optional rows/columns for individual board positions
- Can simultaneously package 1-12 reagents
- Can save multiple calibration and separation programs
- 96 hole plate with single hole 500 μ L minute liquid can complete one board in 8 seconds



Technical parameter

Product Name	Twelve channel liquid separation platform (6 peristaltic pumps)
model	S-Fact P660
Article number	TY-101-12
Applicable scope	Liquid reagent packaging
Liquid separation accuracy	30-50 μ L \pm 8%; 50-100 μ L \pm 5%; above 100 μ L \pm 3%
Liquid addition speed	6s/ plate@96 Orifice plate, single hole 500 μ L
Liquid addition mode	Optional Rows/Columns
Calibration settings	The pipeline can be calibrated, and the calibration data of different pump inner pipes can be saved and switched
Container plate position	3 x 96 well plate
Operation mode	7-inch Chinese color LCD touch screen display
operating system	Android System (V4.0)
data storage	Can save \geq 100 preset liquid dispensing programs and \geq 10 sets of pipeline calibration data
Pump specifications	B200 \times 6
Maximum motor speed	600rpm
Working environment	
temperature	10 $^{\circ}$ C~40 $^{\circ}$ C
Relative humidity of working environment	\leq 80%
input voltage	200-240V (AC), 50-60Hz
Rated power	350W
Appearance dimensions	480 x 450 x 250 (mm)

04

S-Fact P800 Eight channel liquid separation platform

(8-1 peristaltic pumps)



This product adopts a self-developed high-precision peristaltic pump, which is widely used in universities, scientific research, third-party laboratories, and other fields such as IVD reagent packaging, drug development, cell therapy, immune analysis, etc. Batch 384 well plates, 96 deep well plates, PCR plates, 8-connected tubes, and enzyme-linked immunosorbent assay plates for dispensing and dispensing.

Product advantages

- Calibratable
- Can be cleaned/sucked back
- Can be individually selected for sorting
- Able to add liquid deep into the hole
- Vibration and mixing functions
- Compatible with 96 hole and 384 hole boards



Technical parameter

Product Name	Eight channel liquid separation platform (8-1 peristaltic pumps)
model	S-Fact P800
Article number	TY-104-0108
Applicable scope	Liquid reagent packaging
Liquid separation accuracy	1-10 μ L \pm 10%; 10-50 μ L \pm 3%; above 50 μ L \pm 3%
Liquid addition speed	6s/ plate@96 Orifice plate, single hole 20 μ L
Liquid addition mode	Can be set to uniformly add liquid to the entire board or to add liquid with a single gradient in a single row
Calibration settings	Adjustable calibration factor
Container plate position	1 x 96 well plate/384 well plate
Operation mode	7-inch Chinese color LCD touch screen display
operating system	Android System (V4.0)
data storage	Can save \geq 100 preset liquid dispensing programs and \geq 20 preset container settings
Pump type	Self made peristaltic pump
Maximum motor speed	600rpm
Working environment temperature	10 $^{\circ}$ C~40 $^{\circ}$ C
Relative humidity of working environment	\leq 80%
input voltage	200-240V (AC), 50-60Hz
Rated power	100W
Appearance dimensions	340 x 300 x 200 (mm)
weight	8kg

Product features



Programmable operations



Large touch screen



High production efficiency



High precision (with errors as low as 1%), high repeatability and reliability



Calibratable and easy to clean



Compatible with multiple boards and tubes



灵活定制

05

S-Fact P1200 High throughput reagent packaging workstation (12 channel peristaltic pump)



This product adopts a twelve channel independent high-precision peristaltic pump, which can simultaneously dispense 12 different reagents, and can independently set the liquid volume to achieve efficient operation and high-precision liquid separation. We can package reagents into various commonly used laboratory containers such as 96 well plates and centrifuge tubes, and provide customer customization services.

Product features



Programmable operations



Large touch screen



High production efficiency



High precision (with errors as low as 1%), high repeatability and reliability



Calibratable and easy to clean



Compatible with multiple boards and tubes

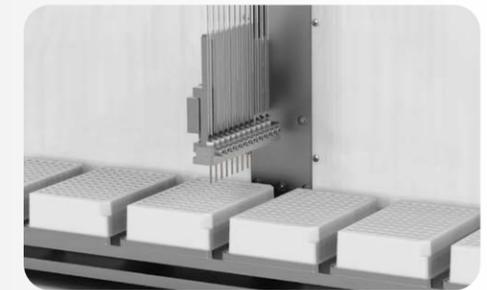


灵活定制



自动生产运行

Product advantages



- Calibratable, optional board, countable
- Can be cleaned/sucked back with adjustable output value
- Board positions can be horizontal/vertical. Individual board positions can be arranged in rows/columns
- The liquid injection needle can penetrate deep into the hole to add liquid
- Can simultaneously package 1-12 reagents
- Can save multiple calibration and separation programs
- 96 hole plate with single hole 600 μ Complete one plate in 6 seconds for L liquid separation

Technical parameter

Product Name	High throughput reagent packaging workstation (12 channel peristaltic pump)
model	S-Fact P1200
Article number	TY-103-12
Applicable scope	Liquid reagent packaging
Liquid separation accuracy	30-50 μ L \pm 8%; 50-100 μ L \pm 5%; above 100 μ L \pm 3%
Liquid addition speed	\leq 6s/ plate@96 Orifice plate, single hole 600 μ L
Liquid addition mode	Optional Rows/Columns
Calibration settings	The pipeline can be calibrated, and the calibration data of different pump inner pipes can be saved and switched
Container plate position	Standard 4/6 \times 96 well plate, supporting customized container plate positions
Operation mode	7-inch Chinese color LCD touch screen display
operating system	Android System (V4.0)
data storage	Can save \geq 100 preset liquid dispensing programs and \geq 10 sets of pipeline calibration data
Pump specifications	B220/Customizable \times 12
Maximum motor speed	600rpm
Working environment temperature	10 $^{\circ}$ C~40 $^{\circ}$ C
Relative humidity of working environment	\leq 80%
input voltage	200-240V (AC), 50-60Hz
Rated power	600W
Appearance dimensions	800 x 450 x 220 (mm)

06

S-Fact S1200 High throughput reagent packaging workstation (12 injection pumps)



This product adopts twelve independent high-precision injection pumps and is equipped with powerful control operation software to ensure efficient operation, high precision, and micro liquid separation. It can package reagents such as 96 well plates, enzyme-linked immunosorbent assay plates, PCR series, and provide customized functions for customers. This enables the originally tedious and repetitive packaging work to be automated, thereby saving a lot of labor costs and significantly improving packaging efficiency.

Product features



Programmable operations



Large touch screen



High production efficiency



High precision (with errors as low as 1%), high repeatability and reliability



Calibratable and easy to clean



Compatible with multiple boards and tubes



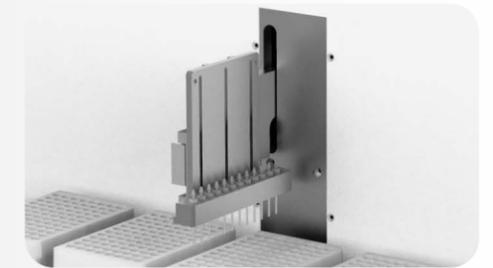
灵活定制



自动生产运行

Product advantages

- Calibratable
- Can be cleaned/sucked back
- Can be individually selected for sorting
- Able to add liquid deep into the hole
- Supports 12 types of liquid distribution
- Compatible with 96 hole and 384 hole boards



Technical parameter

Product Name	High throughput reagent packaging workstation (12 injection pumps)
model	S-Fact S1200
Article number	TY-102-12
Applicable scope	Liquid reagent packaging
Liquid separation accuracy	1-10 μ L \pm 5%; 10-20 μ L \pm 3%; above 20 μ L \pm 1%
Liquid addition mode	Optional Rows/Columns
Calibration settings	Each pump is calibrated separately and supports liquid addition compensation
Container plate position	Standard 4/6 \times 96 well plate, supporting container optocoupler detection, and supporting customized container plate positions
Operation mode operating system	7-inch Chinese color LCD touch screen display Android System (V4.0)
data storage	Can save \geq 100 preset liquid dispensing programs
Pump specifications	High precision injection pump \times 12, 1mL/2.5mL/mL (optional)
pipe materials	Silicone/Teflon optional
Maximum motor speed	600rpm
Working environment temperature	10 $^{\circ}$ C~40 $^{\circ}$ C
Relative humidity of working environment	\leq 80%
input voltage	200-240V (AC), 50-60Hz
Rated power	600W
Appearance dimensions	800 x 450 x 220 (mm)

07

S-Fact P6000
Six channel liquid addition experimental workstation


This product adopts a self-developed high-precision peristaltic pump, which is widely used in universities, scientific research, third-party laboratories, and other fields such as IVD reagent packaging, drug development, cell therapy, immune analysis, etc. Batch 384 well plates, 96 deep well plates, PCR plates, 8-tube, enzyme-linked immunosorbent assay plates for liquid dispensing and injection.

Product advantages

- Calibratable
- Can be cleaned/sucked back
- Can be individually selected for sorting
- Able to add liquid deep into the hole
- Supports 6 types of liquid distribution
- Compatible with 96 hole and 384 hole boards


Technical parameter

Product Name	Six channel liquid addition experimental workstation
model	S-Fact P6000
Article number	TY-106-06
Applicable scope	Liquid reagent packaging
Liquid separation accuracy	30-50 μ L \pm 8%; 50-100 μ L \pm 5%; above 100 μ L \pm 3%
Container compatibility	Standard test tubes and any round bottomed ampoules from various manufacturers, standard containers from various manufacturers (96, 48, 24 well deep well plates, PCR plates, ELISA plates), and customized container reagents (irregular reagent strips)
Multi channel operational performance	Each channel operates independently without interfering with each other. Each channel supports simultaneous separation and alternating mixing
Time required for single pump and single pipe separation (default speed)	16 # inner tube (3.2mm) 6mL/s 19 # (2.4mm) inner tube 4mL/s
Pipeline support	The minimum inner diameter of the inner tube is 13 # (0.8mm), and the thickest inner diameter is 25 # (4.8m)
Peristaltic pump support	Various manufacturers of peristaltic pumps and our company's self-developed high-precision peristaltic pumps
Liquid recovery	Collect all liquid in the pipeline
Control mode	10 inch Chinese color LCD touch screen display
software system	Android system (V7.1)
data storage	Can save \geq 100 sets of packaging programs and \geq 100 sets of pipeline calibration data
Peripheral Interface	USB interface \times 1
Working environment temperature	10~40 $^{\circ}$ C
Relative humidity of working environment	\leq 80%
input voltage	200-240V (AC), 50-60Hz
Rated power	600W
Heat dissipation	Efficient filtration fan \times 2 inlet and outlet air circulation mode
noise	\leq 60dB
Appearance dimensions	660 x 500 x 400 (mm)
weight	35kg

Product features


Programmable operations



Large touch screen



High production efficiency



High precision (with errors as low as 1%), high repeatability and reliability



Calibratable and easy to clean



Compatible with multiple boards and tubes



灵活定制



支持6种液体分配

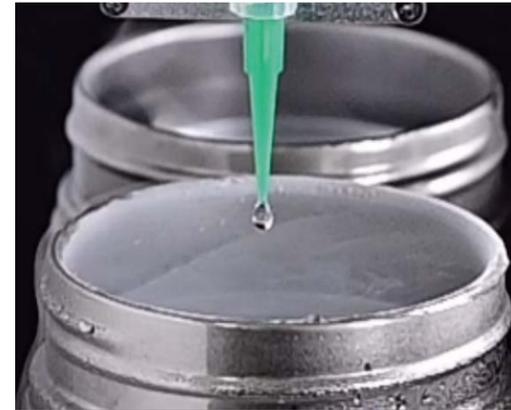
08

S-Fact N1000

Automated liquid nitrogen bead freezer

This product is a high-precision liquid nitrogen automatic dispensing system developed for the pharmaceutical and biochemical industries. The system can automatically accurately dispense solutions into liquid nitrogen for continuous production of frozen drug beads. Liquid nitrogen will immediately turn the dropped solution into solid cryobeads.

Product advantages



Display of shaking and dripping effects



Display of liquid nitrogen surface following effect

Technical parameter

Product Name	Automated liquid nitrogen bead freezer
model	S-Fact N1000
Article number	TY-105-04
Applicable scope	Making small ball shaped freeze-dried medicine beads
Droplet volume that can be added	1μL~200 μL
Liquid separation accuracy	1-10μL ± 5%; 10-20μL ± 3%; above 20μL ± 1%
Ball forming efficiency	≥ 95%
Ball forming speed	≥ 2200 pieces/h @ 35 μL
Z-axis function	Can achieve jitter dripping and liquid nitrogen surface following
Pump specifications	High precision injection pump × 1, 1mL/5mL (optional)
XYZ axis motor	Adjustable speed+adjustable acceleration and deceleration+adjustable waiting time
Pump motor	Adjustable speed+adjustable acceleration and deceleration+adjustable waiting time
Calibration settings	The pipeline can be calibrated and can store 10 sets of calibration data
Liquid nitrogen tank	500mL x 4304 stainless steel material
Frozen bead filter	304 stainless steel material, sector × 4, silicone hand protection against frostbite
Operation mode	7-inch Chinese color LCD touch screen display
operating system	Android System (V4.0)
data storage	Can save 100 liquid dispensing programs
Working environment temperature	10 °C~40 °C
Relative humidity of working environment	≤ 80%
Maximum motor speed	600rpm
Rated power	250W
Appearance dimensions	450 x 400 x 430 (mm)
weight	15kg

Product features



Programmable operations



Large touch screen



High production efficiency



High precision (with errors as low as 1%), high repeatability and reliability

09

S-Fact N4000
**Four channel
automated
liquid nitrogen
bead freezer**


This product is a high-precision liquid nitrogen automatic dispensing system developed for the pharmaceutical and biochemical industries. The system can automatically accurately dispense solutions into liquid nitrogen for continuous production of frozen drug beads. Liquid nitrogen will immediately turn the dropped solution into solid cryobeads.


**Product
features**


Programmable operations



Large touch screen



High production efficiency



High precision (with errors as low as 1%), high repeatability and reliability

Product advantages


Display of shaking and dripping effects



Display of liquid nitrogen surface following effect

Technical parameter

Product Name	Four channel automated liquid nitrogen cryometer
model	S-Fact N4000
Article number	TY-105-05
Applicable scope	Making small ball shaped freeze-dried medicine beads
Droplet volume that can be added	1 μ L~200 μ L
Liquid separation accuracy	1-10 μ L \pm 5%; 10-20 μ L \pm 3%; above 20 μ L \pm 1%
Ball forming efficiency	\geq 95%
Ball forming speed	\geq 8000 pieces/h @ 35 μ L
Z-axis function	Can achieve jitter dripping and liquid nitrogen surface following
Pump specifications	High precision injection pump \times 4, 1mL/5mL (optional)
XYZ axis motor	Adjustable speed+adjustable acceleration and deceleration+adjustable waiting time
Pump motor	Adjustable speed+adjustable acceleration and deceleration+adjustable waiting time
Calibration settings	The pipeline can be calibrated and can store 10 sets of calibration data
Liquid nitrogen tank	500mL x 4304 stainless steel material
Frozen bead filter	304 stainless steel material, sector \times 4, silicone hand protection against frostbite
Operation mode	7-inch Chinese color LCD touch screen display
operating system	Android System (V4.0)
data storage	Can save 100 liquid dispensing programs
Working environment temperature	10 $^{\circ}$ C~40 $^{\circ}$ C
Relative humidity of working environment	\leq 80%
Maximum motor speed	600rpm
Rated power	400W
Appearance dimensions	640 x 466 x 591 (mm)

10

S-Fact C1180 Fully automatic culture medium plate packaging device



Zhongke Tongyi fully automatic culture medium packaging device is a research assistant prepared for users with a high demand for tablet culture media. It has multiple functions such as tablet loading, culture medium packaging, UV sterilization, etc. The fully automatic packaging and preparation of tablet culture media eliminates the tedious and time-consuming process of manually pouring tablets, avoids the risk of pollution caused by operational errors, and helps scientific research work to be efficient and fast.

Product features



Programmable operations



Large touch screen



High production efficiency



One click completion bid farewell to tedious operations and long waiting times



Built in UV light
Say goodbye to pollution

Product advantages



- Automatic filling, worry free and effortless
- Reliable structure and easy maintenance
- Full process UV sterilization eliminates the risk of medium contamination
- Programmable setting of filling medium volume, freely adjustable parameters
- Large size touch screen CNC display parameters, simple, intuitive and easy to operate
- Large quantity and fast, meeting the packaging needs of any amount of plate culture medium, capable of filling a large number of plates at once

Technical parameter

Product Name	Fully automatic culture medium plate packaging device
model	S-Fact C1180
Article number	TY-107-01
Applicable scope	Dish packaging
yield	300 dishes/h
Single packaging quantity	175
Volume of liquid added	0-99mL
Liquid separation accuracy	1000μL ±2%
Applicable plate size	90mm (other customizable)
Disinfection and sterilization	UV disinfection lamp
Operation mode	7-inch Chinese color LCD touch screen display
operating system	Android System (V4.0)
Pump configuration	High precision peristaltic pump * 2
material quality	Stainless steel, aluminum alloy, acrylic
Rated power	300W
Working environment temperature	5 °C~40 °C
Relative humidity of working environment	≤ 80%
Appearance dimensions	510 x 580 x 710 (mm)
weight	20kg

Ordering Information · Instruments

Product Name	Model/item number	Specifications
Single channel liquid separation platform (single channel peristaltic pump)	S-Fact P100	one
Six channel liquid separation platform (6-channel peristaltic pump)	S-Fact P600	one
Twelve channel liquid separation platform (6 peristaltic pumps)	S-Fact P660	one
Eight channel liquid separation platform (8-1 peristaltic pumps)	S-Fact P800	one
High throughput reagent packaging workstation (12 channel peristaltic pump)	S-Fact P1200	one
High throughput reagent packaging workstation (12 injection pumps)	S-Fact S1200	one
Six channel liquid addition experimental workstation	S-Fact P6000	one
Automated liquid nitrogen bead freezer	S-Fact N1000	one
Four channel automated liquid nitrogen bead freezer	S-Fact N4000	one
Fully automatic culture medium plate packaging device	S-Fact C1180	one

