

**TINGET<sup>®</sup>**

浦江光机电科技开发有限公司

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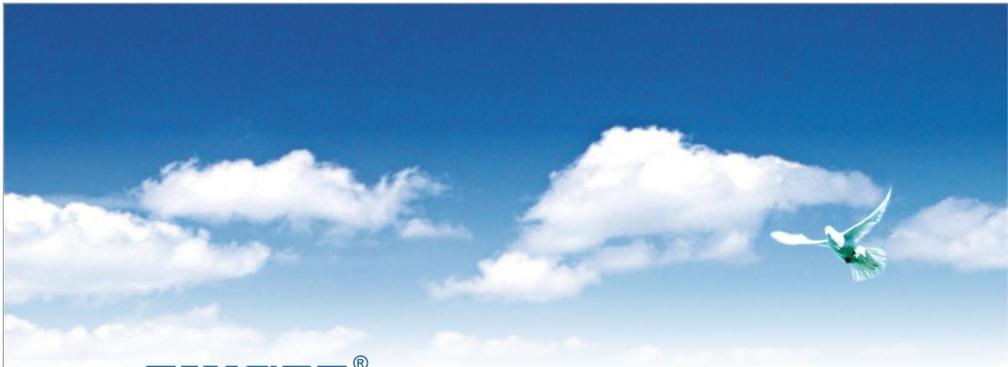
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浦江光机电科技开发有限公司  
PUJIANG OPTOELECTRONIC TECHNOLOGY CO. LTD.



**TINGET®**

Pujiang optoelectronic technology Co. Ltd. has been dedicated to making a healthier and safer medical environment for patients all over the world since 2002 through developing and producing medical devices which are produced based on long-term research and experiment, offering professionals devices specially designed for health care, veterinary, beauty industry and related areas, meanwhile ensuring patients to be in "the best hand" and enjoy the most considerate care during their treatment.

Pujiang optoelectronic technology Co. Ltd. gains trust from our customers by innovative products of the highest quality and best service. In addition, we offer customers all over the world professional service which is consistent with the most stringent global standards through our distributors, all of our products have quality guarantee and comprehensive after-sales service to insist on our business philosophy of "We are providing products and service of the best quality." Every employee of our company is ready to meet all kinds of needs on our products and service from every customer.

Our objective everyday is to develop new technology in order to meet new demands and challenges, also to participate in new competitions of the highest levels. Our passion for excellence leads us to devote all our efforts and talents to creating high quality products to achieve requirements and expectations from our customers.

TINGET is a leading brand with the entire contents of our values and philosophy that presents us to the world and identifies us as the best company in this area. Our daily work consists in increasing the recognition and positioning our brand at an international level.

Providing invaluable opportunities in new markets and achieving a high recognition that reflects the real value of what we are, the high quality of our products and our genuine commitment exceeding the expectations and needs of all our customers.



**TINGET®**

**CERTIFICATION :**



**STE-8L-C**



**STE-12L/16L-C**



**TINGET**

A new series of autoclaves of high performance, reliability, safety and it is specially designed to meet the EN13060 European standards.

Intelligent program which is supported by a powerful processor is capable to control and inspect at any time the proper functioning of the sterilizer and ensure the effectiveness of the sterilization cycle.

Able to detect and identify the exact cause of any problem, alert on it and show a specific error code, schedule and customize cycle times to suit your own needs.

Always ready to test its effectiveness and functioning.

With B&D, Helix and Vacuum test program that you can check its operation is correct or not, allowing you to be calm with the safety and health of your patients because all the instruments are put under the best and safest process of sterilization.

It permanently controls of the water level.

Automatically monitoring of water levels can guarantee total independence and autonomy, ensure that when you start the cycle, there is enough water in the storage tank.

Water tank is easily accessible, the review and maintenance of water tank is very simple with the new series.

**STE-18L/23L-C**



**Security reliability and comfort**

Multiple levels of protection which makes an autoclave very safe to use and maintain over time, warning system prevents starting a cycle if the door is not properly locked. Door protection device prevents the door from opening while chamber is still pressurizing or at a high pressure.

**Automatic shutdown of electricity**

The autoclave will disenable its whole system 30 minutes after the sterilization cycle finishes, energy consumption will be almost zero, this also allows you to schedule night work for it, in the next morning you will find the instruments sterilized and the autoclave is again ready for use.

**Precise documentation and timeliness**

With USB connection, it is the easiest way to keep complete information and confirmation of the correct development cycle running. With the facility to keep the information in any computer without using any software or printer port in order to take a physical registry related data can be saved or print automatically once the cycle has finished.

**Simple and intuitive operation**

Control panel of simple operation, with liquid crystal display that shows the status of the sterilization cycle at all times and the codes of alert, meanwhile through various programs which are easier to identify, without fear to make mistakes, that allows the user-friendly of the autoclave operation.

**CLASS B**

Model	Voltage (V/Hz)	Power (W)	Chamber (mm)	Packing size (mm)	Weight(kg)
STE-8L-C	110V-240V/50Hz-60Hz	1550	Ø170×320/8L	640×480×430	38
STE-12L-C	110V-240V/50Hz-60Hz	1750	Ø200×360/12L	690×560×490	47
STE-16L-C	110V-240V/50Hz-60Hz	1750	Ø230×360/16L	690×560×490	48
STE-18L-C	110V-240V/50Hz-60Hz	1800	Ø247×350/18L	690×590×530	53
STE-23L-C	110V-240V/50Hz-60Hz	2000	Ø247×450/23L	790×590×540	59

### STE-8L-A

The most simple and economical device to sterilize solid medical instruments of the sterilization cycle of 121°C to 134°C with a single select button. It has a screen that allows you to view the pressure, temperature and the status of the autoclave during the sterilization cycle.



### STE-18L/23L-A

With LCD display that allows you to graphically observe the process and the state of the sterilization cycle. Operations needed every time is displayed on the screen as well as the state of the door, the state of water tanks, temperature, pressure, ect.



### STE-12L/16L-A

It has a screen that allows you to view the pressure, temperature and the status of the autoclave during the sterilization cycle.  
Application Area: Dental Clinics, Hospitals, Laboratory, Veterinary, Beauty Salon, Tatoo, ect.



#### CLASS N

Model	Voltage (V/Hz)	Power (W)	Chamber (mm)	Packing size (mm)	Weight(kg)
STE-8L-A	110V-240V/50Hz-60Hz	950	Ø170×320/8L	640×480×430	32
STE-8L-AP	110V-240V/50Hz-60Hz	1450	Ø170×320/8L	640×480×430	33
STE-12L-A	110V-240V/50Hz-60Hz	1600	Ø200×360/12L	690×560×490	43
STE-16L-A	110V-240V/50Hz-60Hz	1600	Ø230×360/16L	690×560×490	44
STE-18L-A	110V-240V/50Hz-60Hz	1700	Ø247×350/18L	690×590×530	48
STE-23L-A	110V-240V/50Hz-60Hz	1900	Ø247×450/23L	790×590×540	53

#### CLASS B

Model	Voltage (V/Hz)	Power (W)	Chamber (mm)	Packing size (mm)	Weight(kg)
STE-8L-A	110V-240V/50Hz-60Hz	1550	Ø170×320/8L	640×480×430	37
STE-12L-A	110V-240V/50Hz-60Hz	1750	Ø200×360/12L	690×560×490	46
STE-16L-A	110V-240V/50Hz-60Hz	1750	Ø230×360/16L	690×560×490	47
STE-18L-A	110V-240V/50Hz-60Hz	1800	Ø247×350/18L	690×590×530	52
STE-23L-A	110V-240V/50Hz-60Hz	2000	Ø247×450/23L	790×590×540	58

## CLASS N STE-12L/16L-E



**Features:**

CLASS N autoclave without vacuum pump, it has certificates from ISO 9001, ISO 13484, CE0197, CMCAS and ETL.  
 Friendly and intuitive user interface with LCD screen, displays the information about cycle process by a large graphic all the time.  
 A built-in independent steam generator, making the sterilization fast and completed.  
 Most of the main parts for TINGET autoclave are imported from global famous company.  
 Sterilization temperature: 121°C/1.1 bar, 134°C/2.1 bar.  
 Open-type water storage tank which is very easy for filling and cleaning.  
 Automatic water filling and draining.

**Safety:**

Door protecting locking system prevent the cycle from starting unless the door is properly locked, and also prevents the door from opening if there is pressure in the chamber.  
 Pressure safety valves prevent over pressurization in chamber and generator.  
 Able to detect and identify the exact cause of any problem, alert on it and show a specific error code, and also can output the exactly temperature and pressure at the time when error code appears. Water level switch in the water tank can control the max water level.

**Documentation:**

Have printer port, able to be connected TINGET printer to print the sterilization record for each cycle. Optional USB port is easily to save the sterilization records by memory disk.

**CLASS N**

Model	Voltage (V/Hz)	Power (W)	Chamber (mm)	Packing size (mm)	Weight(kg)
STE-12L-E	110V-240V/50Hz-60Hz	1600	Ø200×360/12L	690×560×490	43
STE-16L-E	110V-240V/50Hz-60Hz	1600	Ø230×360/16L	690×560×490	44

## CLASS B STE-12L/16L-E



Class B autoclave with European standard En13060.

High precision control system for more perfect sterilization.  
 Friendly and intuitive user interface with LCD screen, displays the information about cycle process by a large graphic all the time.  
 Most of the main parts for TINGET autoclaves are imported from global famous company.  
 Great drying effect by vacuum.  
 Open-type water storage tank which is very easy for filling and cleaning.  
 Automatic water filling and draining.  
 The sterilization time and temperature are programmable by user, which help the user have a best sterilization effect according to private needs.

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**CLASS B**

Model	Voltage (V/Hz)	Power (W)	Chamber (mm)	Packing size (mm)	Weight(kg)
STE-12L-E	110V-240V/50Hz-60Hz	1750	Ø200×360/12L	690×560×490	47
STE-16L-E	110V-240V/50Hz-60Hz	1750	Ø230×360/16L	690×560×490	48

## CLASS B STE-18L/23L-D



**Features:**

Highly precise control system is designed for a more perfect sterilization.  
 More fast sterilization time  
 Friendly and intuitive user interface with LCD screen, displays the information about cycle process by a large graphic all the time.  
 Have 5 display languages for the user to select (English, German, Spanish, Polish and Chinese).  
 A built-in independent steam generator can make the sterilization fast and completed.  
 Sterilizing time and drying time can be adjusted.  
 Multi-units of temperature and pressure can be choose  
 Separated drying programs. ( optional )

**Safety:**

Door protecting locking system prevent the cycle from starting unless the door is properly locked, and also prevents the door from opening if there is pressure in the chamber.  
 Pressure safety valves prevent over pressurization in chamber and generator.  
 Able to detect and identify the exact cause of any problem, alert on it and show a specific error code, and also can output the exactly temperature and pressure at the time when error code appears.  
 Water level switch in the water tank can control the max water level.

**Documentation:**

Have built-in printer, which can print the sterilization records very easily. ( optional )  
 Have USB port and USB driver which can save the records easily.  
 Able to save at least 20 cycles of sterilization records in the internal memory, which can print or output at any time.

**Programs:**

Solid(121°C/134°C), Liquid(121°C/134°C), Wrapped(121°C/134°C), Prion (134°C), B&D test, Helix test, Vacuum test.

**CLASS B**

Model	Voltage (V/Hz)	Power (W)	Chamber (mm)	Packing size (mm)	Weight(kg)
STE-18L-D	110V-240V/50Hz-60Hz	1800	Ø247×350/18L	690×590×530	53
STE-23L-D	110V-240V/50Hz-60Hz	2000	Ø247×450/23L	790×590×540	59

## CLASS B STE-25L-T



**Application: Super-long instruments: Laparoscope**

**Feature:**

It is exactly the same as CLASS B autoclave from the appearance and its program is the same as STE-16L-C, but it has much longer chamber with a length of 580mm, which makes the chamber space as 25 liters, it is specially designed for the super-long instruments such as laparoscope and so on.

Have printer port and USB port, which can save the sterilization data easily.

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**CLASS B**

Model	Voltage (V/Hz)	Power (W)	Chamber (mm)	Packing size (mm)	Weight(kg)
STE-25L-T	110V-240V/50Hz-60Hz	2200	Ø230×580/25L	930×560×490	62



STERILIZATION ACCESSORIES

TECHNICAL DATA OF THE STERILIZATION ACCESSORIES

**Handpiece Lubrication**

Easily, accurately lubricating and cleaning three handpiece at the same time(2 high-speed handpieces and 1 low-speed handpiece ,any brand ,high or low speed ,high security, easy to operate, quick to manage, oil filtration cotton could minimize the oil fog).

Model	Voltage (V/Hz)	Capacity (ML)	Packing size (mm)	Weight(kg)
LUB909	110V-240V/50Hz-60Hz	300	335×260×400	7

**Ultrasonic Cleaner**

Adjustable temperature range: 20-80°C.  
Adjustable time range: 1-60 min.  
High-definition digital display.  
Heating up automatically stopping system when lacking of water.  
Specific basket is designed for special devices that should be free from friction.

Model	Voltage (V/Hz)	Power (W)	Capacity (L)	Packing size (mm)	Weight(kg)
CLEANER-30A	110V-240V/50Hz-60Hz	270	3	360×250×300	5
CLEANER-50A	110V-240V/50Hz-60Hz	300	5	360×250×300	6
CLEANER-50B	110V-240V/50Hz-60Hz	300	5	360×250×300	7

**Sealing Machine**

Specially designed for sealing package of sterilization.  
Made entirely of stainless steel, easy to clean and maintain over time.  
Adjustable and sustainable, fast and convenient.

Model	Voltage (V/Hz)	Power (W)	Sealing width/ Press width	Packing size (mm)	Weight(kg)
SEAL818	110V-240V/50Hz-60Hz	500	250/10mm	470×390×295	8

**Sterilizing Package**

5cm×100m/rol	7.5cm×100m/rol	10cm×100m/rol	15cm×100m/rol	20cm×100m/rol
5cm×100m/rol	7.5cm×200m/rol	10cm×200m/rol	15cm×200m/rol	20cm×200m/rol

**Water Distiller**

Purified water is not distilled water, however autoclave must adopt distilled water as operation medium.  
Have very compact dimensions, do not require installation and are maintenance free.  
The distiller ensures that water quality is ideal for the proper functioning of the autoclave.

Model	Voltage (V/Hz)	Power (W)	Capacity (L)	Packing size (mm)	Weight(kg)
DRINK750	110V-240V/50Hz-60Hz	750	4	290×250×445	5

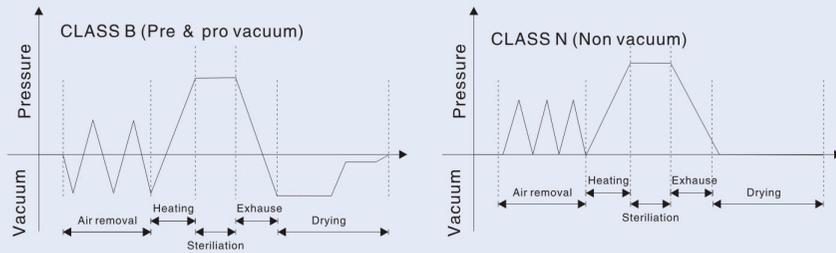
**Mic-printer**

Used for record and print sterilization data.

Model	Paper type	Paper width (mm)	Packing size (mm)	Weight(kg)
TG-P	Thermal paper	57.5±0.5	265×195×90	1.5



### Graphic Of Working Cycle



### Pre-programmed cycles

#### Class N AUTOCLAVE

PROGRAM	TEMP (°C)	PRESSURE (bar)	STERILIZATION TIME(min)	TOTAL TIME (min)		
				8L	12L & 16L	18L & 23L
SOLID	134	2.1	4	15-25	14-30	20-45
	121	1.1	20	25-40	30-45	35-60
LIQUID	134	2.1	10	25-50	30-55	35-60
	121	1.1	30	30-55	35-60	35-60
WRAPPED	134	2.1	10	20-45	30-45	45-65
	121	1.1	30	30-50	30-50	50-75
TEXTILE	134	2.1	10	20-45	30-45	45-65
	121	1.1	30	30-50	30-50	50-75
PRION	134	2.1	18	30-50	35-55	45-75
DRYING	—	—	—	1-20	1-20	1-20
PLASTIC	105	0.2	30	50-70	50-70	50-70

#### Class B AUTOCLAVE

PROGRAM	TEMP (°C)	PRESSURE (bar)	STERILIZATION TIME(min)	TOTAL TIME (min)		
				8L	12L & 16L	18L & 23L
SOLID	134	2.1	4	15-25	14-30	20-45
	121	1.1	20	25-40	30-45	35-60
LIQUID	134	2.1	10	25-50	30-55	35-60
	121	1.1	30	30-55	35-60	35-60
WRAPPED	134	2.1	4	20-45	30-45	45-65
	121	1.1	20	30-50	30-50	50-75
TEXTILE	134	2.1	4	20-45	30-45	45-65
	121	1.1	20	30-50	30-50	50-75
PRION	134	2.1	18	30-50	35-55	45-75
DRYING	—	—	—	1-20	1-20	1-20
PLASTIC	105	0.2	30	50-70	50-70	50-70
B&D TEST	134	2.1	3.5	22-35	22-35	22-35
HELIX TEST	134	1.1	3.5	22-35	22-35	22-35
VACUUM TEST	—	—	—	15-20	15-20	15-20

#### What is class B and class N autoclave?

The class B autoclave has vacuum system, it is the highest class of autoclave, which is conforming to the most strict requirement and therefore can be unrestrictedly used for the sterilization of all possible loads for all kinds of sterilization packaging (solid, hollow instruments with wrapped and unwrapped).

A "class B" autoclave must pass every Helix test as EN 867-5:2001 by the test system of EN 13060 in any cases. According to experts' opinions, which can only be achieved by fractionating per vacuum procedure. Post vacuum drying provides completed drying of porous loads and hollow instruments at the end of the sterilization process.

The class N autoclave does not have vacuum system, you only need an autoclave capable of running class N system.

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